VistA Imaging System

Clinical Capture User Manual

November 2012 – Revision 3
MAG*3.0*122

Department of Veterans Affairs
Product Development
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Clinical Capture User Manual
VistA Imaging MAG*3.0*122
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VistA Imaging Office of Enterprise Development
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Revision History

Date	Rev	Notes
April 2010	.9	Initial draft, Hima Suri; Initial WPR
July 2010	1.0	Final WPR, Hima Suri
May 2011	1.1	P106 updates (rev 2). C. Gilbert, D. White - Globally updated screen shot of the Select Image Association dialog box, Format dialog box - Updated sections *Batch Capture Transfer Buttons*, *Batch Capture Options window*, *Imaging Workstation Configuration Window*, *Image Format*, *Association, Security Keys.* - Added new sections *TeleReader Consult* and *Selecting a TeleReader Consult*
May 2011	2.0	P117 updates. Hima Suri - Globally updated screen shots of the main Capture window to show the new DICOM data field. - Globally updated screens shots of Input source window - Deleted QA Review section
November 2012	3.0	P122 updates. C. Gilbert, K. Bahr, L.Scorza - Revised sections: *Acronyms, Document/Image Capture Summary Steps, Document/Image Capture with Clinical Capture, Logging In & Starting Clinical Capture, Attaching a Scanned Document to a Different Author's Progress Note, Selecting a TeleReader Consult, Display Area, Image Manipulation Buttons, Scanning Documents as a Single Image, Scanning Documents as a Group (Study), Options menu, Appendix A: Supplemental Logon Screens.* - Added new sections: *Image Annotation, Annotation Permissions, Annotating Images, Annotation Tools, Drawing Lines, Making Freehand Drawings, Drawing Rectangles, Adding Text to Images, Drawing Ellipses, Drawing Arrows, Highlighting Areas, Using the Ruler, Calibrating Rulers, Measuring Angles in Images, Selecting Annotations, Moving Selected Annotations, Resizing*

Date	Rev	Notes
		Annotations, Deleting Annotations, Exiting Annotation Mode and Saving Annotations with the Image, Using the Annotation Property Editor, Setting Line/Arrow Properties, Setting Line/Arrow Shape Properties, Setting Line/Arrow Color Properties, Setting Freehand Properties, Setting Freehand Line Properties, Setting Freehand Color Properties, Setting Rectangle/Highlighter Properties, Setting Rectangle/Highlighter Shape Properties, Setting Rectangle/Highlighter Color Properties, Setting Text Properties, Setting Text Font Styles and Sizes, Editing Text, Setting Text Color Properties, Setting Ellipse Properties, Setting Ellipse Shape Properties, Setting Ellipse Color Properties, Setting Ruler Properties, Setting Ruler Font Styles and Sizes, Setting the Ruler Shape Properties, Setting Ruler Color Properties, Modifying Start Line Length and End Line Length, Setting Protractor Properties, Setting Protractor Font Styles and Sizes, Setting the Protractor Shape Properties, Setting Protractor Color Properties, Setting Global Annotation Attributes, Default Values for Annotations, Setting Global Annotation Attributes from the Options Menu, Setting Global Annotation Font Attributes, Setting Global Annotation Line Width Attributes, Setting Global Annotation Color Attributes, Setting Global Annotation Opacity Attributes, Setting Global Annotation Arrow Attributes.

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Introduction

This manual explains how to configure and use the Clinical Capture software for Image Capture. Clinical Capture is a part of the VistA Imaging System. This manual is intended for use by clinical and administrative staff responsible for incorporating captured images into a patient's electronic medical record.

This manual assumes the users are familiar with the Windows environment, and that the Clinical Capture workstation being used has been configured to perform Image Capture. For more information about the Clinical Capture software, refer to the Imaging System Users Guide.

Terms of Use

In compliance with Food and Drug Administration (FDA) and VA policies, authorization to use this software is contingent on the execution of a Site Agreement between the VistA Imaging Office of Enterprise Development (OED) group and the site where this software is installed.
In addition to any restrictions noted in the Site Agreement, the following restrictions apply:

No modifications may be made to this software without the express written consent of the VistA Imaging National Project Manager.

The Food and Drug Administration classifies this software as a medical device. Modifications to the computer where this software is installed, such as the installation of unapproved hardware or software, will adulterate the medical device. The use of an adulterated medical device violates US Federal Law (21CFR820).

About This Manual

This manual has two major sections:
1) Task-Oriented Manual
2) Reference Manual

Task Oriented Manual explains tasks associated with Clinical Capture with steps involved and accompanying screenshots.
Reference Manual is the section that describes all the available Menu Options and functions associated with Clinical Capture.
This manual contains the following chapters:

- The Document Scanning Overview provides general information about document scanning and summarizes the document scanning process.
- Document Scanning with Clinical Capture provides how-to instructions for each major part of Image capture and the suggested Capture process.
- The Timesavers chapter describes some of Clinical Capture's timesaving features.

Related Manuals

Additional information about document scanning and Clinical Capture can be found in the following documents:

- Imaging System User Manual
- Imaging System Technical Manual
- Imaging System Installation Guide
- The Document Imaging web page
- VistA Document Library
- Health Information Management Service, HIMS FAQ Web Page
- HIMS Practice Brief on the Legal Health Record
- VHA Handbook 1907.01

Conventions

This manual uses the following conventions:

- For the purpose of this manual Document and/or Image are used synonymously and the capture process is the same for each.
- Controls (buttons, boxes, etc.) in the user interface are indicated by initial capitalization. For example: *Click Print to open the Print dialog*.
- Notifications or controls that are identified by a phrase are enclosed in single quotation marks. For example: Click the 'Share this folder as' option.
- Instructions for using menus are condensed using the ' | ' symbol. For example: Click File | Save means: Click the File menu, then click the Save option.
- Useful or supplementary information is indicated by a TIP.
- Important or required information is indicated by a NOTE.

- Warnings concerning potential data loss or device misuse are indicated by:

Acronyms

Acronym	Definition
CPRS	Computerized Patient Record System
EKG	Electrocardiogram
FAQ	Frequently Asked Questions
FDA	Food and Drug Administration
HIMS	Health Information Management Service
HRN	Health Record Number
IHS	Indian Health Service
PAL	Phase Alternate Line, the predominant video system or standard mostly used overseas

Acronym	Definition
QA	Quality Assurance
RGB	Red, Green, Blue, the device-dependent color model used in color televisions, video and image devices
SSN	Social Security Number
TIU	Text Integration Utility
TWAIN	Though not a real acronym, TWAIN is the name of the standard interface for image acquisition devices first released in 1992 that came from an archaic form of the word "two".
VA	Veterans Affairs
VHA	Veteran Health Administration
VistA	Veterans Health Information System and Technology Architecture

Getting Help

If you encounter any problems using this software, contact your local Imaging Coordinator or support staff. If the problem cannot be resolved locally, use Remedy tool to place a service request, or contact the National Help Desk between 8:00AM and 6:00PM Eastern time, Monday through Friday, at 1-888-596-4357.

Document Scanning Overview

This chapter provides general information about document scanning using Clinical Capture and summarizes the document scanning process.

Why Scan Documents?

VHA Directive 2001-045 requires that all VA medical centers implement a document imaging system by September 30, 2004. This directive states that all medical facilities must scan certain clinical documents to make them part of a patient's electronic medical record. The directive specifically mentions advance directives and consent forms.

Data that can be entered directly into CPRS should not be scanned.

To comply with this directive, and to support the goal making a patient's complete medical record available online, the following types of documents should be scanned.

- Consent forms and other documents with "wet" signatures of patients, practitioners, or other personnel

- Advance Directives

- Fee Basis Reports should be available from inside CPRS

- Results/reports from medical procedures that are not acquired directly from the instrument or entered in the VistA system.

- Means Tests

- Outside medical reports

Additional types of documents can be scanned according to HIMS Directives referred to in the *Related Manuals* section.

Document/ Image Capture Summary Steps

Document scanning with Clinical Capture involves the following general steps.
These steps are described in detail in the following chapter.

NOTE: The order of steps 3 - 7 may vary, depending on how document scanning is set up.

1. Log into VistA Imaging Capture program.

   Some sites may choose to start Capture from CPRS.

2. Select a patient.

   If you started Capture from CPRS, a patient will already be selected.

3. Select the appropriate "capture configuration" for the documents to be scanned.

Some Capture workstations will use a single capture configuration that is selected automatically. If multiple capture configurations are defined, a capture configuration will need to be selected by the user.

4. Define how the document will be added to a patient's record.

    Some scanned documents are linked directly to a patient record, while others are attached to a specific procedure or progress note.

5. Enter additional index information.

    Depending on capture configuration selected, some information is pre-defined. Additional index values may need to be entered by the user.

6. Review the document for accuracy and readability before scanning. Also verify patient information before scanning.

7. Capture the document/ Image.

    With the proper equipment, multiple page documents can be scanned in a single operation. A set of related documents can be scanned as a "group" of images, reducing data entry.

    NOTE: For Telereader consults, only the first page is captured. Scan all other pages separately.

8. Verify the patient ID, input data, and image quality.

    Users with annotation permission will be able to make annotations before the image is finalized.

    NOTE: Sites belonging to the Indian Health Service (IHS) can use the Health Record Number (HRN) to verify the patient identification.

9. Finalize Capture.

    When the capture is complete, the image will be available for display at other workstations.

Document/ Image Capture with Clinical Capture

This section provides how-to instructions for each major part of the document/image capture process. It covers:

- Logging In & Starting Clinical Capture
- Selecting a Capture Configuration
- Selecting a Patient
- Attaching Documents to Notes or Reports
- Image Index Guidelines
- Image Capture Options
- Adding Annotations
- Completing Capture

NOTE: The Clinical Capture software is highly configurable. Its appearance may not match the examples shown in this manual.

Logging In & Starting Clinical Capture

The method used to start Clinical Capture can vary, depending on how VistA Imaging is set up at your site. In most cases, Capture is started directly from the Windows desktop.

NOTE: Clinical Capture can be started from CPRS | Tools | VistA Imaging Capture option or as a standalone application. Capture is started from CPRS if there is a need to review information in the patient's medical record. The current patient in Capture will always match the current patient in CPRS.

To start Clinical Capture as a standalone application:

1. Double-click the Capture shortcut ▣ on the Windows desktop.

   If a shortcut is not available, click **start**, then choose Programs | VistA Imaging Programs | VistA Imaging Clinical Capture 32-bit.

2. Depending on how your site is configured, you may see supplemental Logon screens. Please refer to *Appendix A: Supplemental Logon Screens* for additional information.

3. When the VistA Sign-on box displays, type your access and verify codes into the Access Code and Verify Code boxes, then click OK.
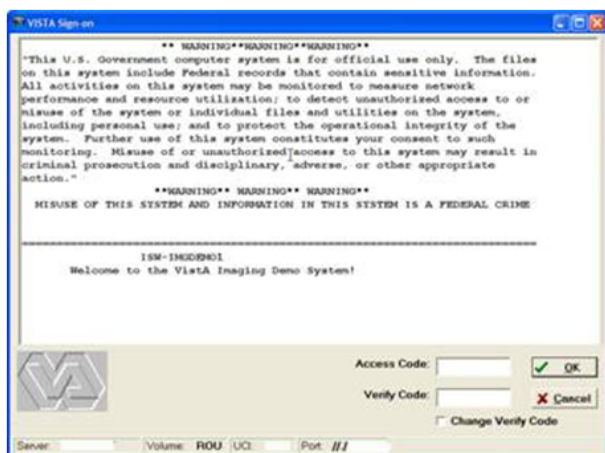
4. Vista Imaging Capture window will be displayed as shown below.
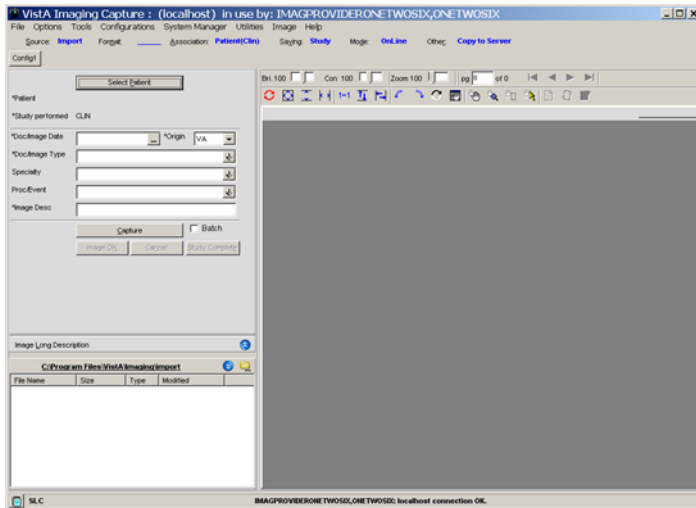
Select Patient

This section explains how to select patients using VistA Imaging Clinical Capture.

NOTE: If you use CPRS to start Clinical Capture, a patient will already be selected, and you can skip the information in this section. The current patient in Capture will always match the current patient in CPRS. When you need to change patients, use CPRS.

Once logged in to Capture (as a standalone application), Select Patient Lookup in one of four ways:

1. Click Select Patient Button from the Capture Screen.
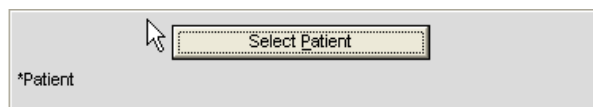
2. Choose Select Patient from File Menu
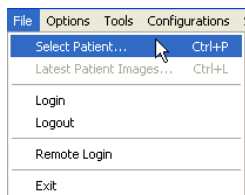
3. Press CTRL+P

4. Press ALT + P

Lookup Patient and Select

1. In the Patient box, type the name of the patient you want to capture images for.

Patient:	pat

2. Enter the patient's last name first (no need to enter the entire name), or enter the first letter of the last name and the last four digits in the SSN (no spaces). If you enter both the last name and the first name, use only a comma to separate the names. VistA Imaging will not recognize a patient name if you use spaces. If you are located at an Indian Health Service (IHS) site, you can use the Health Record Number (HRN) for the patient identification.

3. Press Enter to perform the patient lookup.

4. If an exact match is found for information entered, that patient is selected and the patient lookup window is closed.

5. If there is more than one matching name, a list of names will be displayed along with the Patient's Photo ID where available. When Patient Photo is unavailable, a silhouette is displayed as shown in the image below.

6. Select the correct patient then click OK.
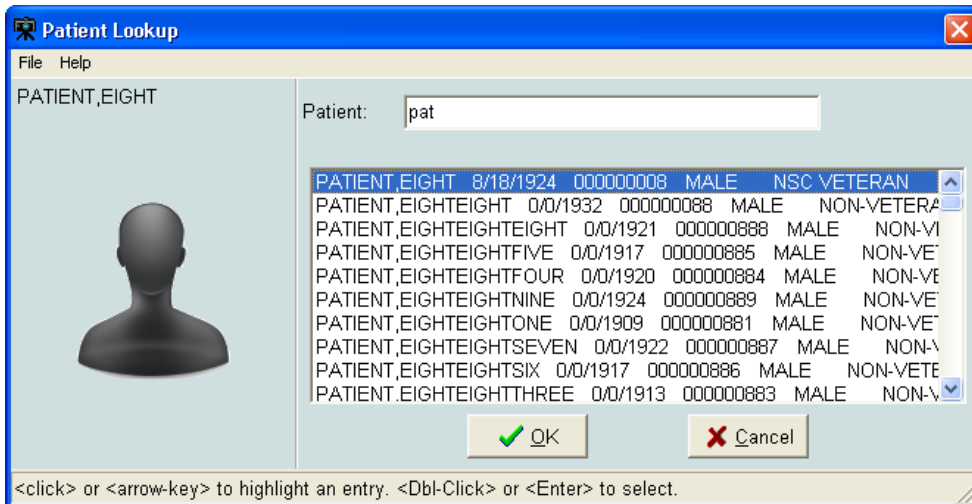
Configuration Settings Bar

Top of the VistA Imaging Capture Window looks as follows:
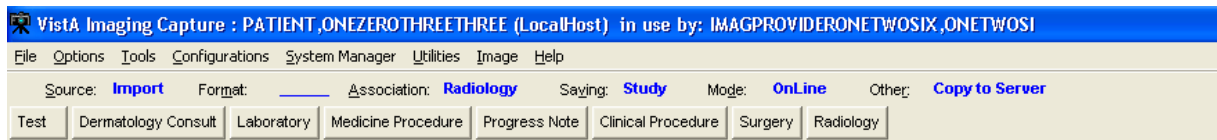
The Configuration Settings bar has options that can be selected for capturing an Image. Below is a screenshot of the configuration bar and explanation of options follows.
Near the top of the VistA Imaging Capture window, under the menus is the Configuration Settings Bar.
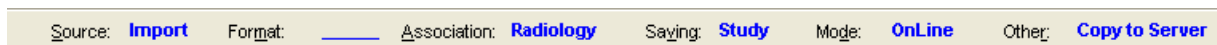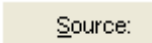
- The options are: Input Source, Image Format, Association, Saving (Study/Single), Mode & Other.
- The words in blue & bold are the current configuration settings.
- Below the configuration settings are the Configuration buttons.

NOTE: If one or more configuration buttons are present, click the button that is appropriate for the type of document being scanned. Configuration buttons can be different from workstation to workstation, and are usually named for particular documents. These are configurable buttons based on the configurations that are frequently used.

NOTE: The screen shots shown below have all radio buttons enabled for documentation purposes and these options may not always be enabled. See *Imaging Workstation Configuration Window* for more details.

Input Source

Select the Input source from the Menu Bar by clicking the Source [Source:] button.
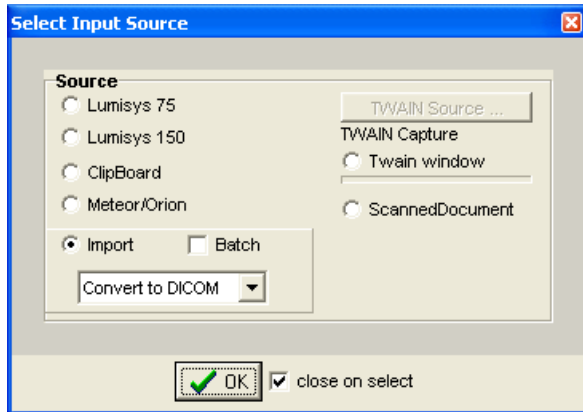
The Input Source identifies the type of Capture device being configured. It may be any of the following:

- A Lumisys x-ray scanner, model 75 or 100, which produces a 1K x 1K x 8-bit gray scale image and optionally a 2K x 2K x 12-bit diagnostic quality gray scale image
- The Matrox Meteor/Orion boards capture standard NTSC and PAL analog video in composite, RGB and S-Video (Y/C) formats. They are capable of handling color or black and white input. Captured images are 640x480x24 bits.
- Image Import from the local disk or a network drive.
- A standard TWAIN device such as a color, x-ray, or document scanner or a still video camera; these may produce a 1-bit or 8-bit black and white image or a 8-bit or 24-bit color image
- A customized TWAIN source called Scanned Document which produces a 1-bit 300x300 dpi document (G4 FAX quality)

Special Notes:
TWAIN
Clicking the 'TWAIN Source' button displays a list of all TWAIN sources connected to the workstation.

- If only one TWAIN Source is connected to the workstation, which is usually the case:

  - It will be automatically selected.
  - No list will be displayed if the button is selected.

- If TWAIN Capture - Twain window has been selected as the Input Source, another window will be opened when 'Capture' is clicked. This is the TWAIN Window for the TWAIN device. Each TWAIN Device has its own TWAIN Window and TWAIN Image Types, In the TWAIN Window, image format and other image parameters will need to be selected.
- Be sure that the image format selected for the VistA Image Capture corresponds to the image type selected on the TWAIN window. Depending on the equipment manufacturer, different TWAIN Image Types may be listed, and not all vendors support all of these image formats.

Changing Image Formats
When changing an Input Source on the Configuration Window, the Image Formats that are grayed-out (disabled) will also change. The Imaging System knows which Image Formats are applicable to each input Source and will enable-disable Image Formats as appropriate.

Disabled Selections
Because of the complexity of multiple Image Formats and input Sources, there might be a situation where all Image Formats are disabled. If this situation occurs, contact the System Manager.

Format

Choose a Capture Image format from the available options by clicking the Format
Format: button.
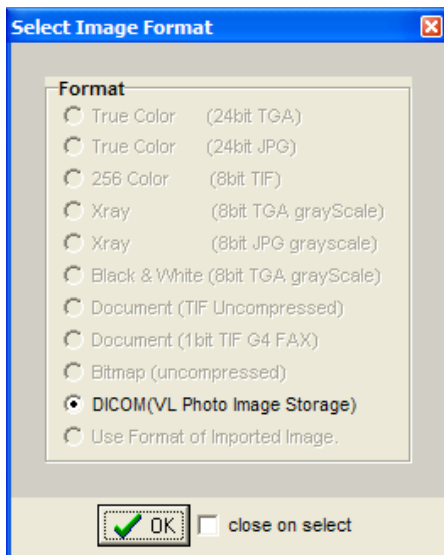
NOTE: The greater gray scale or color dpi chosen the larger the physical file created. This will affect transmission and storage processing times.

Saving

This is the option to save images as Study group or Single Image. Choose this option by clicking the Saving [Saving:] button.
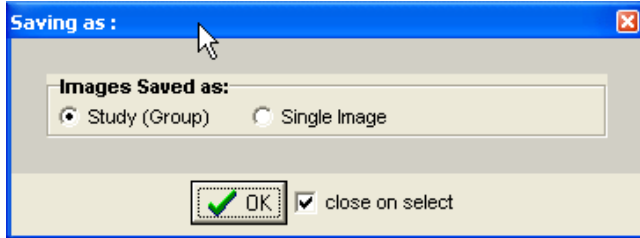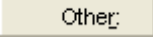
Mode

This is the option to save capture images OnLine. OnLine mode enables saving to VistA, Test Mode enables testing the device, but not saving to VistA. In Test Mode, Images are not saved.

Choose this option by clicking the Mode [Mode:] button.
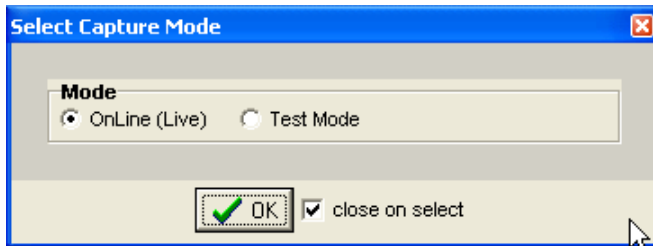
Other

This option provides "Other" settings for Input Source. Choose this option by clicking the Other [Other:] button.
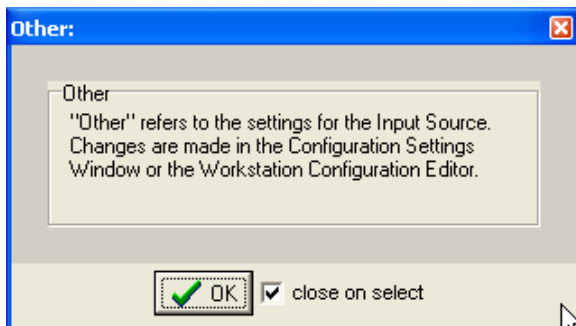
Association Choices

Click the Association [Association:] button in the configuration toolbar to choose an Image Association. The options available for Image Association Choices are explained below. From the Select Image Association window, select one of the available options as shown below:

- VistA Package options (on the left side of the Select Image Association Window shown below), or
- Patient Only options (on the right side of the window shown below).

Choices include:
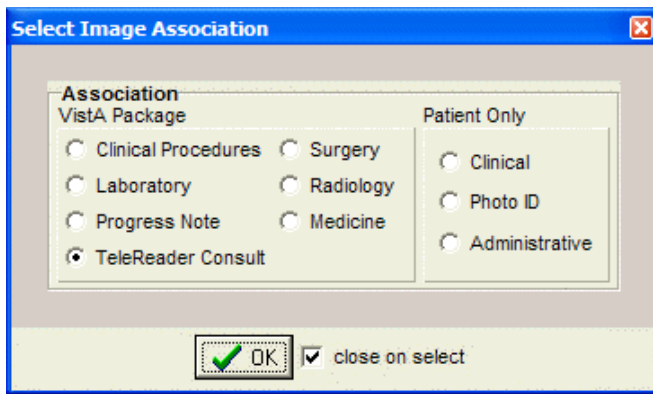
After all selections have been made, the information will be displayed on the main Capture window.
NOTE: Required information has an asterisk next to the selection field.

VistA Package Options
Explanation of the VistA Package Options is provided in this section.
NOTE: The screen shots shown below are partial to show the selected association only and do not show the entire capture window.

Laboratory: When the Laboratory Package option is selected in Association, the capture window will display the following:

The following window will be displayed once you click the Select Laboratory Specimen
Select Laboratory Specimen Button from the main Capture window. Select a Pathology Lab
selection from this window to populate related information in the main Capture window.
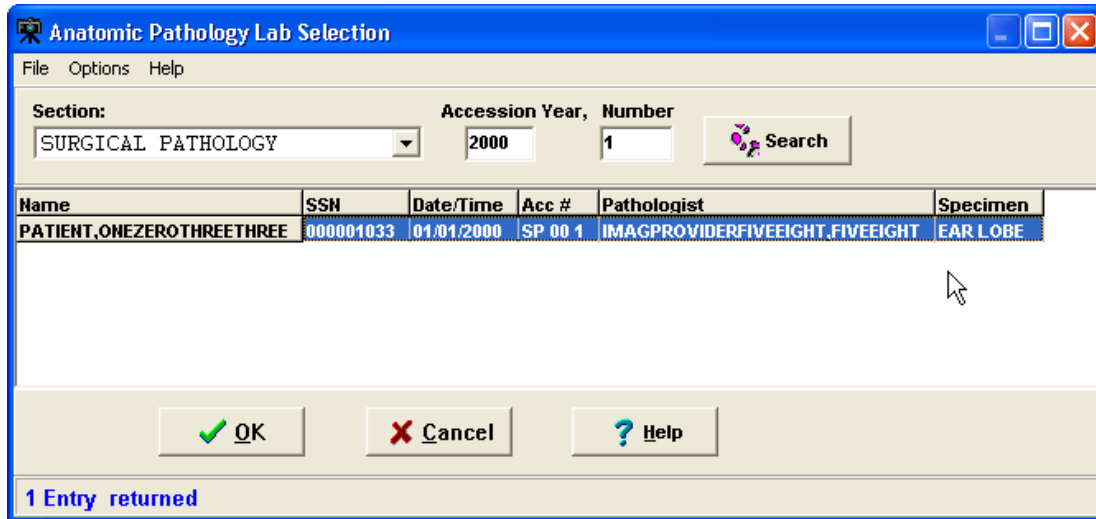
Medicine: When the Medicine Package option is selected in Association, the capture
window will display the following:
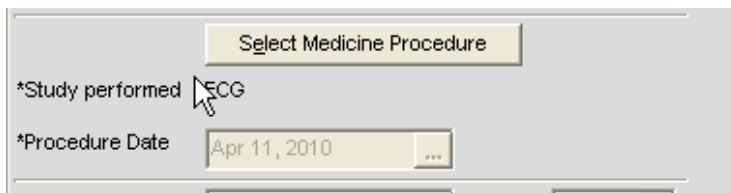
Click the Select Medicine Procedure Select Medicine Procedure Button to select from the
list of available options as shown in the image below. Select the procedure and click OK
to populate related information in the main capture window.
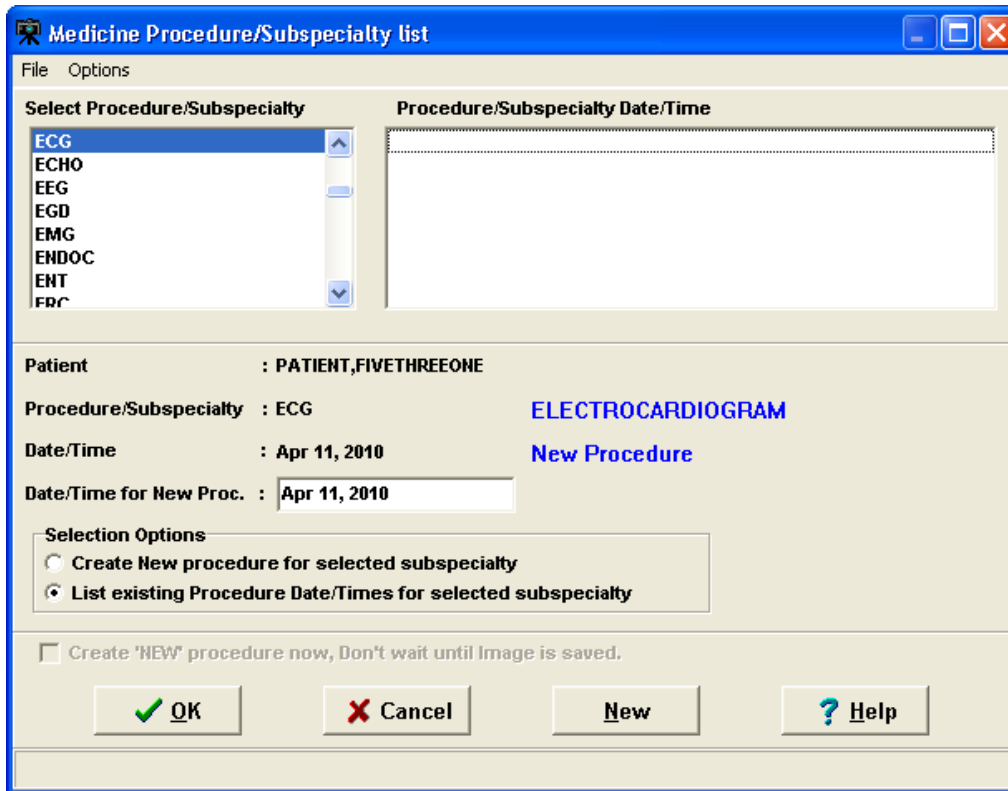
Progress Note: When the Progress Note Package option is selected in Association, the capture window will display the following:
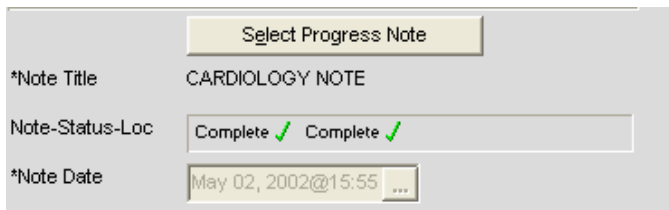
Click Select Progress Note button to display a list of available Progress notes for the selected patients shown in the image below. Select the note and click OK to populate related information in the main capture window.
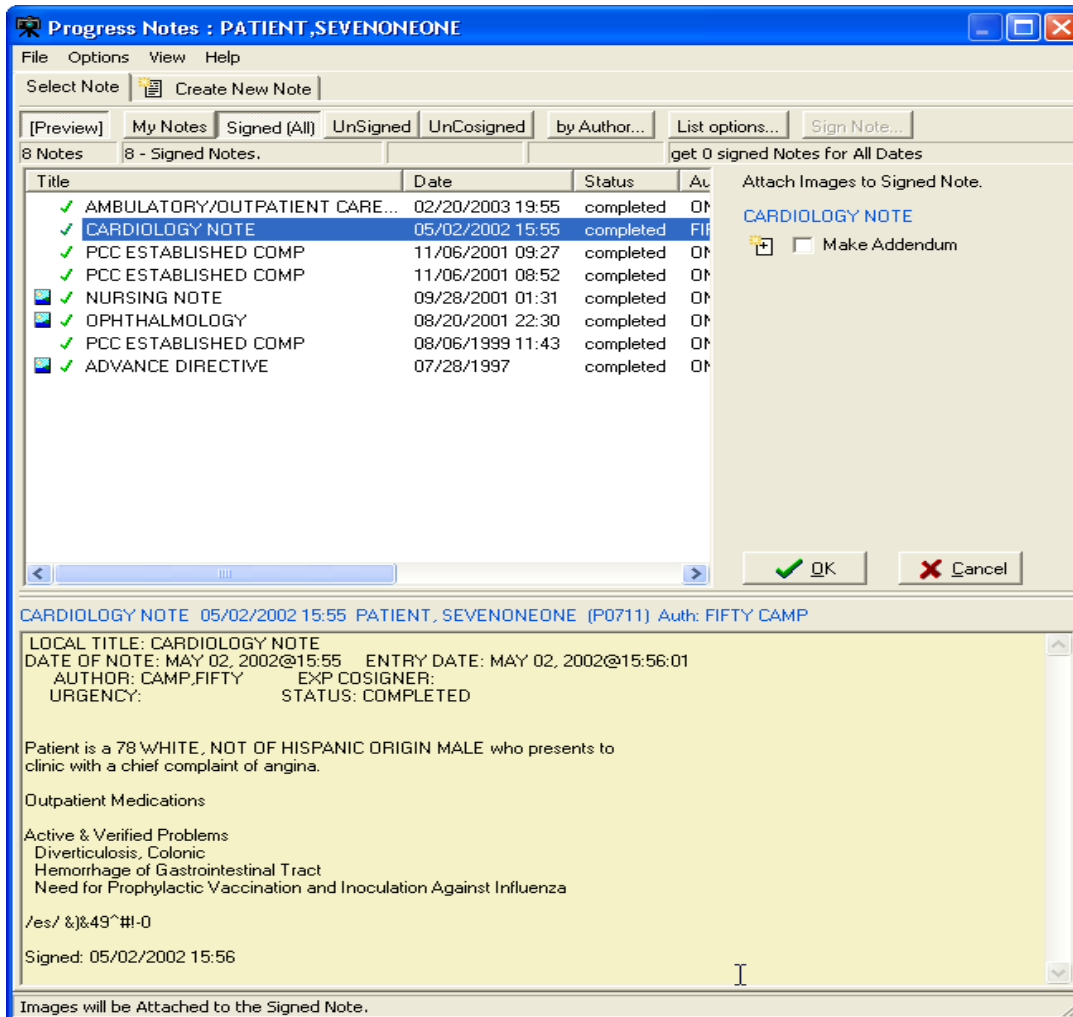
Clinical Procedures: When the Clinical Procedures Package option is selected in Association, the capture window will display the following:
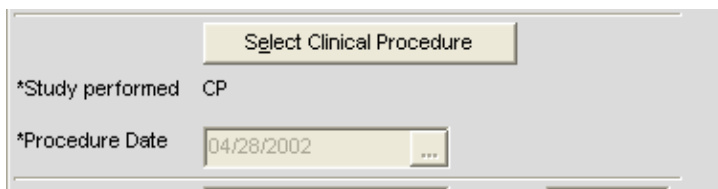
Click Select Clinical Procedure [Select Clinical Procedure] button to display a list of available Clinical Procedures for the selected patient as shown in the image below. Select the procedure and click OK to populate related information in the main capture window. For more information, refer to Clinical Procedure Package Procedures listed on the VistA Document Library.
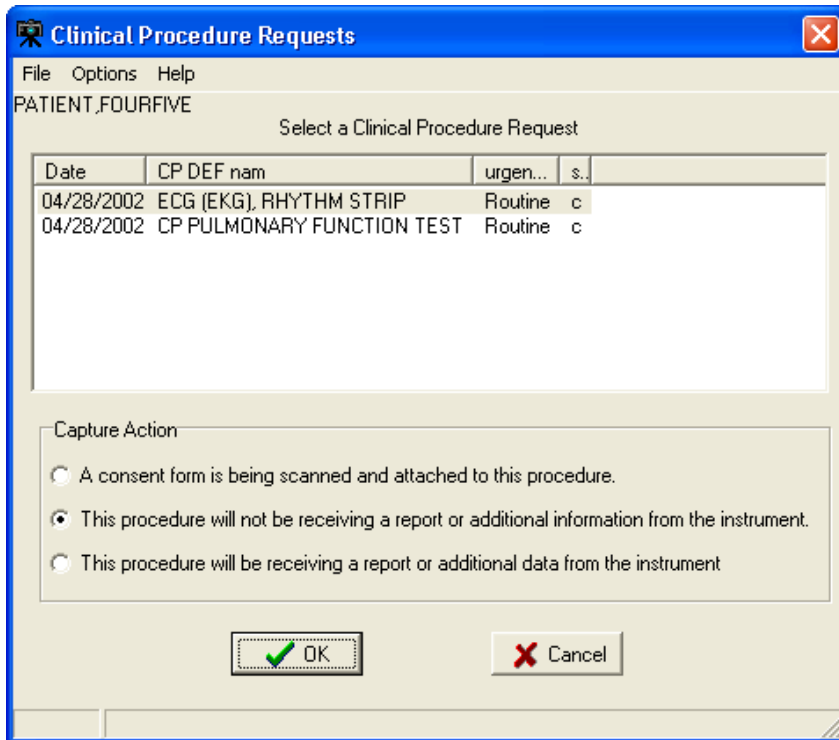
Surgery: When the Surgery Package option is selected in Association, the capture window will display the following:
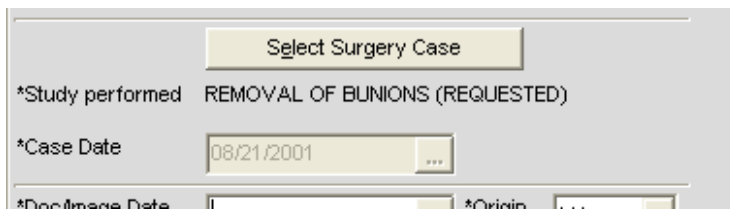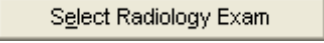
Click Select Surgery Case button to display a list of available Surgery Cases for the selected patient as shown in the image below. Select the case and click OK to populate related information in the main capture window.
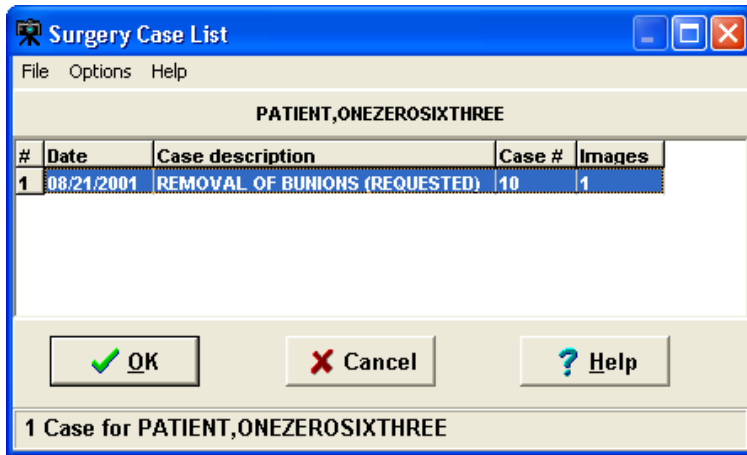
Radiology: When the Radiology Package option is selected in Association, the capture window will display the following:
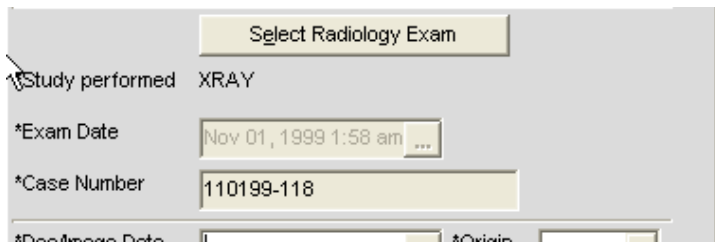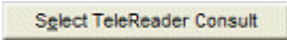
Click Select Radiology Exam [Select Radiology Exam] button to display a list of available Radiology Exams for the selected patient, as shown in the image below. Select the case and click OK to populate related information in the main capture window.
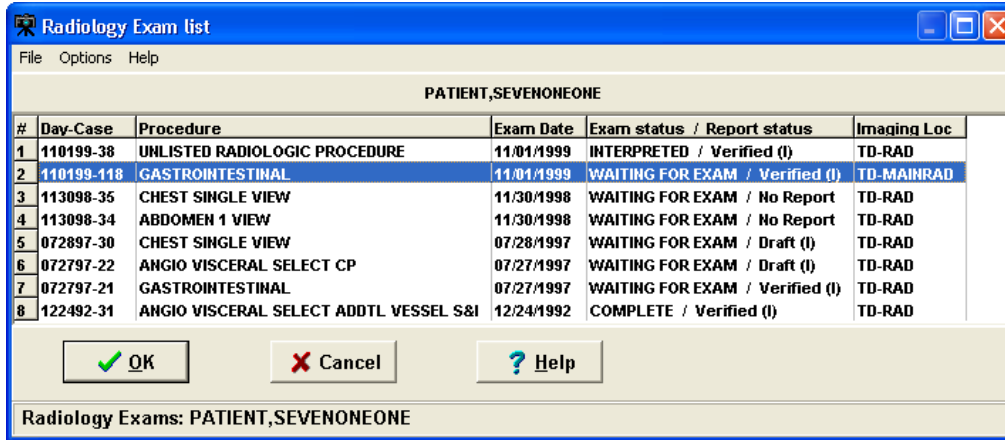
TeleReader Consult: When the TeleReader Consult Package option is selected in Association, the capture window will display the following:
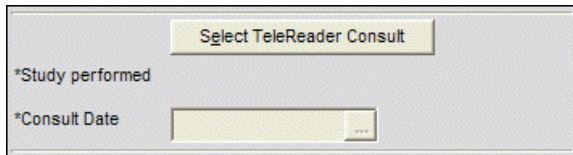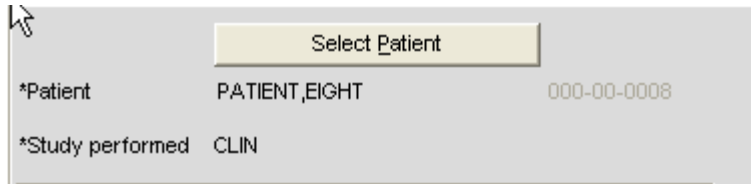
Click Select TeleReader Consult [Select TeleReader Consult] button to display a list of available TeleReader consult requests for the selected patient, as shown in the image below. Select the consult request and click OK to populate related information in the main capture window.
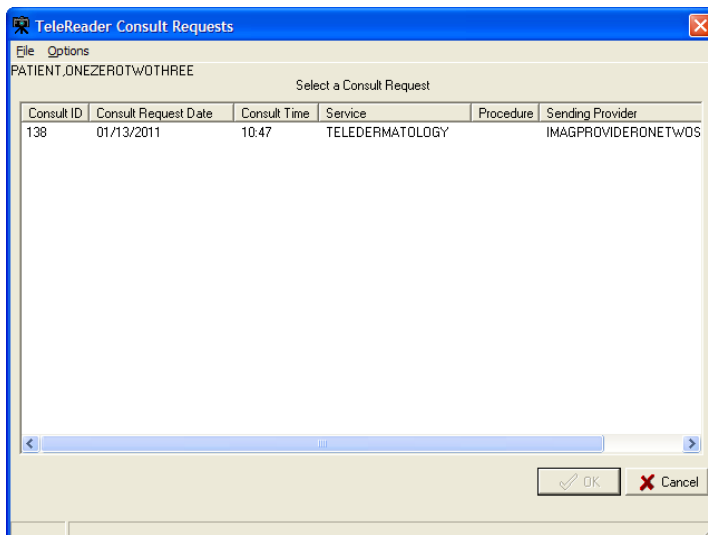
Patient Only
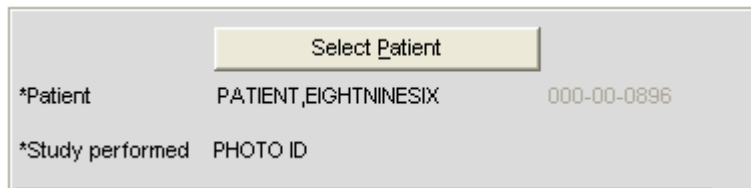
Under Patient Only, there are three options available: Clinical, Photo ID and Administrative as shown below.

Clinical: When Clinical is selected under Association, the capture window will display the following:
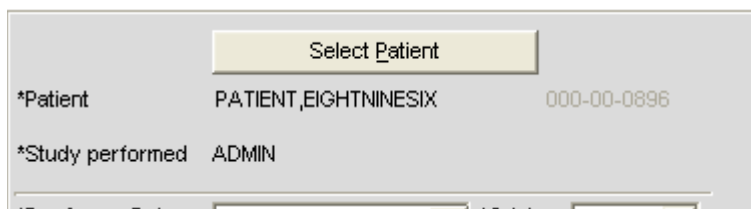
Photo ID: When Photo ID Option is selected under Association, the capture window will display the following:

Administrative: When Administrative Option is selected under Association, the capture window will display the following:

NOTES:

- VistA Imaging has the optional functionality of limiting a user's ability to capture images to certain packages based on assigned Imaging Capture Keys.
- If a dialog window appears with a message similar to: 'You don't have the proper Security Keys to capture Medicine Images', then contact the system manager.
- If images are being captured for a Study Group and the study is not yet complete, all Association choices will be disabled. The study must be closed by clicking 'Study Complete' before a new Association can be selected.

Selecting a Capture Configuration

Configurations
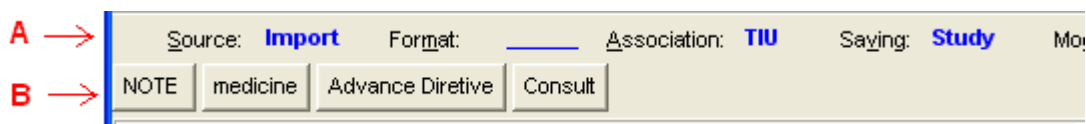
In the image shown above:

- Area A is the 'Current Settings' toolbar or 'Configuration Settings' bar. This toolbar allows you to select individual configuration settings.

- B is the 'Configuration Buttons' toolbar. A capture configuration refers to the group of saved settings that is associated with a Configuration Button.

When you select the menu option: 'Configurations | Save Configuration', you will be saving the current capture settings as a Configuration.

Once a configuration button is clicked, the configuration settings become the current capture settings. You can change the current capture settings without changing the Capture Configuration. When you click the Configuration button again, the settings will be changed back to the values of the configuration button that was clicked.

Selecting Capture Settings

Before scanning a document, you will need to select the capture settings pertaining to the document to be scanned. Capture settings defines how the Capture program sets certain basic parameters when a document is scanned.

The following steps are the suggested sequence of entering settings:

- Select Patient as described in previous sections. Refer to the *Select Patient* section for details.

- Then Select Progress Note or Procedure as described in the *Association Choices* section.

Enter date in Doc/Image Date box.

Click in the box to open the date/time selector window. Select Date/ Time and Click OK.
NOTE: Time selection is not required.

Note: The Help button displays a list of keystrokes for navigating dates, as shown.

After Selecting Date, enter additional required information by choosing from index field choices. The images below show some of the available choices for Doc/ Image Type and Specialty.
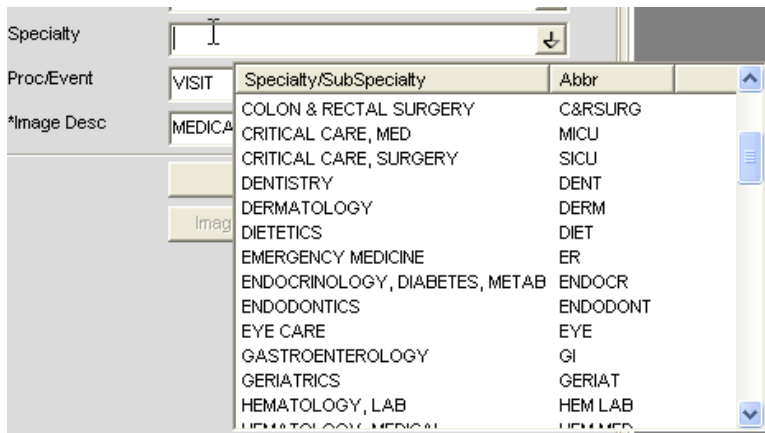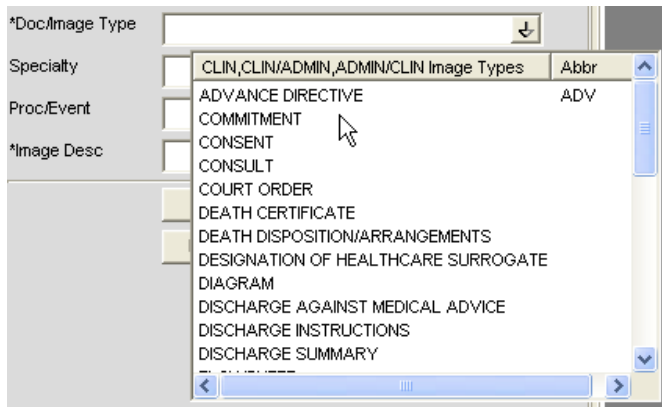
If you need assistance in determining which configuration settings should be used, contact your Clinical or Imaging Coordinator or HIMS department for guidance.

Configuration Settings bar

The image below shows the Configuration settings bar. All these options are explained in detail in sections to follow.

Configuration buttons

If one or more configuration buttons are present, click the button that is appropriate for the type of document being scanned. Configuration buttons are often different from workstation to workstation, and are usually named for particular documents. These are configurable buttons based on the configurations that are frequently used.

A sample screenshot of Configuration buttons is shown below. The configuration buttons can be configured at the workstation and the steps to save configuration buttons are described below.

| Test | Dermatology Consult | Laboratory | Medicine Procedure | Progress Note | Clinical Procedure | Surgery | Radiology |
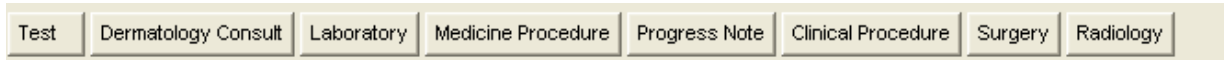
NOTE: Some sites choose to save index field values as a part of a capture configuration. If this is the case, you will see automatically selected values in some of the index fields on the left side of the Capture window.

NOTE: You may see "Hold Value" icon ![icon] next to some of the fields. For more information about "Hold Value", see page 31.

Creating Configuration Buttons

The image capture settings can be changed by:

- the Imaging Workstation configuration window,
- the Imaging Workstation: Capture configurations list window,
- clicking a Configuration Settings Button, located just below the menus, (Source, Format, Association, Saving, Mode, Other)

Examples:

Source – Window opens as shown below when clicked on Source Button
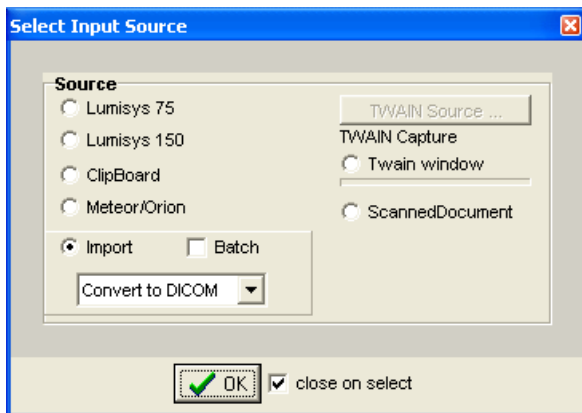
Association - Window opens as shown below when clicked on Association Button
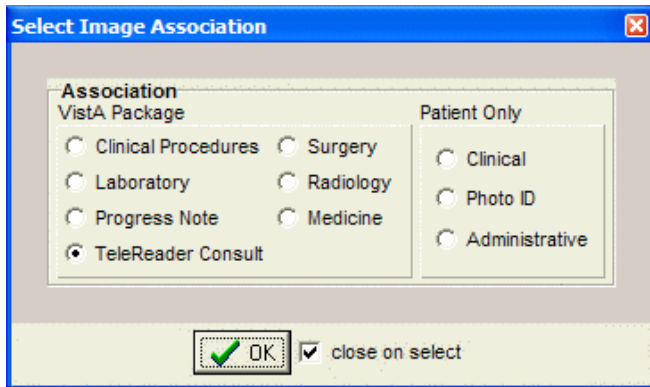
Just below the Configuration settings buttons and their displayed settings, are the **saved configurations** or **Workstation Configurations**.

When one of these saved configuration buttons is clicked, the VistA Imaging Capture window is changed to the saved configurations of that button.

Save Configuration
This dialog can be used to save the current state of the main Capture window as a new configuration or to overwrite an existing configuration.

Enter a new or existing configuration name.
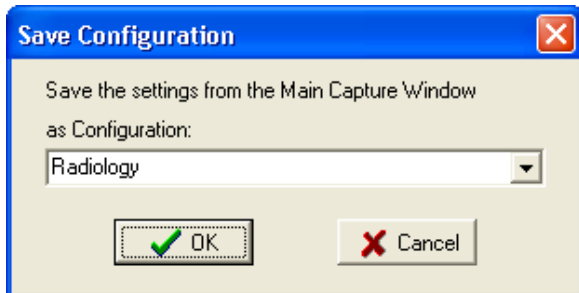
If an existing configuration name is entered a confirmation dialog will appear.
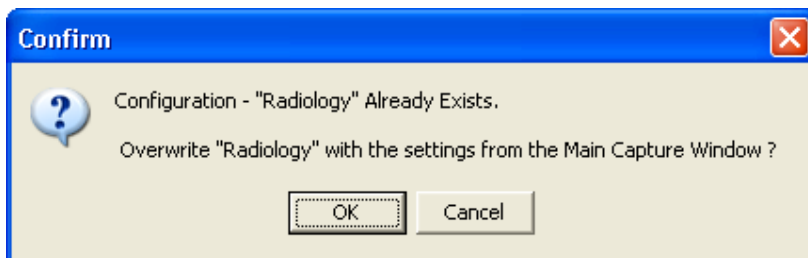
Entering Data

Required Input Fields

Image Dates

VistA Imaging can store 3 dates related to each image. These date fields are collected for imaging users. The dates can be used to filter and sort images.

Capture Date

The Image "Capture Date" is stored in the VistA Imaging Database. This field is computed by the software when the image is added to the VistA Database.

Document Date

- The "Document Date" is the Date/Time of the creation of the "original" document or image.
- There are situations when this date field is not known.
  Example 1: A CD is brought to the VA (from another agency) and imported into a radiology study.
- The Document Date will be the date the study was performed and images captured at that agency.
- The Capture Date will be the date it was stored in VistA Imaging.
  Example 2: An Advanced Directive is signed by a patient and the document is scanned into VistA Imaging at a later date.
- The Document Date will be the date the Advanced Directive was signed by the patient.
- The Capture Date will be the date the paper document was scanned and stored in VistA Imaging.

Event Date

This date is filed automatically and is not editable by the user. The date can be a Date/Time or Date only, depending on its association.

When the information is associated with a patient (not VistA Package) then this field contains the Capture Date/Time.
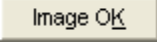
Additional **Data required** to capture an image to the patient record, depends on the association selected, and includes the following settings:

- o Patient
- o Study Performed
- o Procedure Date

- o Doc / Image Type
- o Image Short Description
- o and an Image File

Optional data includes:
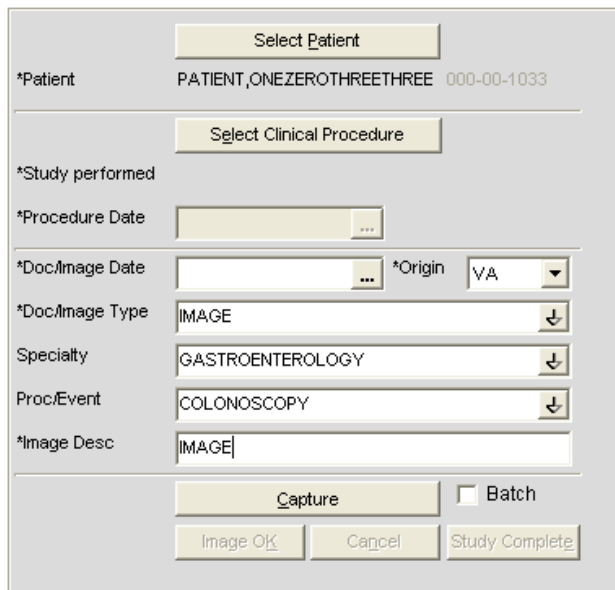
- o Specialty
- o Proc/Event
- o Image long description.

A validity check is performed when the 'Image OK' [Image OK] button is clicked. If data is missing, a message is displayed in the message box at the bottom of the window and input focus is set to the field that needs data or the button that opens the selection window for the required data.

NOTE: VistA Imaging allows changing the order of the edit fields and controls. Select the menu option 'Option|Field Tabbing Sequence'.

Entering Data for the Image

The following is a screenshot of the Image Data in the main capture window

- o If a Patient Photo ID is on file, it will be displayed to the left of the Patient Name.
- o The fields with a **gray background** are filled by VistA Imaging when the user makes selections.

The **input data** fields include:
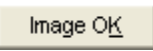
- **Patient ID** (name and SSN is input from the VistA Select Patient information),
- **Study Performed**,
- **Procedure Date** (and Time - input by the system),
- Doc/Image Date
- Origin
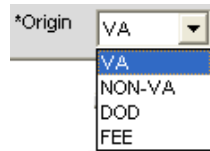
- **Doc/Image Type** (selected from a list),
  Note: For a TeleReader Consult association, select **IMAGE** or **CONSULT.**
- **Specialty** (***** optional, selected from a list),
- **Proc/Event** (***** optional, selected from a list)
- **Image Description** (generated from the previous selections, user can add/modify the entry).

If the VistA Imaging Capture window is resized a scroll bar may become visible.

Press <TAB> to move from field to field, as an alternative to scrolling. The area will scroll automatically so that the current input field will be in the visible area.

When the 'Image OK' button is clicked, VistA Imaging checks the data fields required to save an image to VistA. If any fields are missing, VistA Imaging will warn the user.
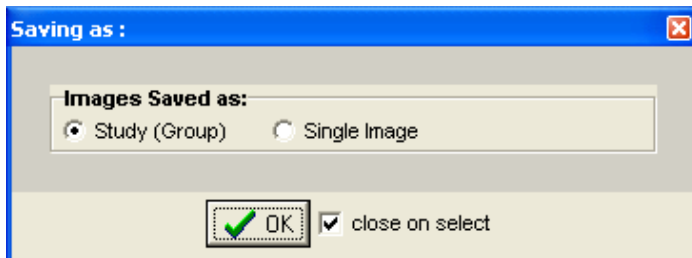
If the **Save as** window is set to **Study (Group)**, then when the last image in the Group is saved and the Study Complete button is clicked -- you will be given the option of entering a **'Long Description'** for this group. Long image descriptions are displayed as the first paragraph of Image Reports.

Index fields that are to be populated by the user are displayed on the left side of the main Capture window. Each field has a pull-down list populated with values common to all VistA Imaging sites. The user can use the mouse or the keyboard to select values for each field.***(see below)**

* asterisks in the graphic above, denote an **Optional** field

The Specialty and Proc/Event Fields are unique in that a value selected for one of the two fields *will be used to filter (reduce) the contents of the pull-down list for the other field.* This filtering should reduce the selection of inappropriate entries, and gives the user a smaller, more relevant list of choices. If a user needs to display the unfiltered pull-down lists, they can delete the contents of either field, or use the Refresh Index Lists option under the Tools menu.

{* The contents of each pull-down list can be fine-tuned by setting the Status field (#4) in files 2005.83, 2005.84, and 2005.85. When Status = Active (Active is the default value), the related index value is present in the appropriate pull-down list. If Status is set to Inactive, the related index value is not available as an option.}

Hold Value Option

This option enables user to 'hold' Image information for successive captures of images/Image Groups thus avoiding the need to reenter **information that remains constant** for a series of images / Image Groups. Open Hold Value window clicking Configurations | Select Hold Values option.

Click in the box to the left of the field that is to be retained. All fields that are not checked will be cleared after each image is captured.

'Hold Value' Feature
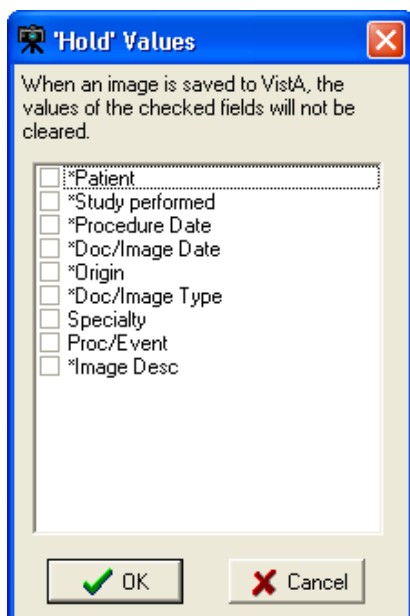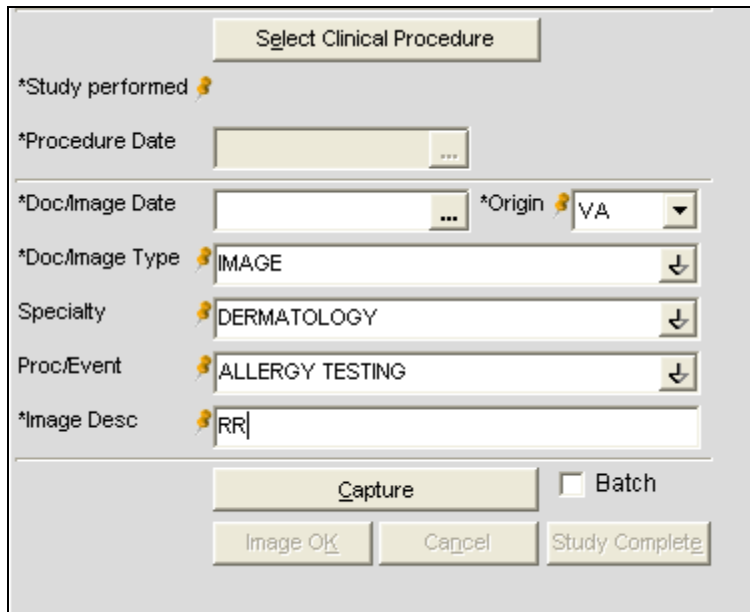
Hold Value can be used for **any input field** in the left side of the Capture window, even those fields that are not directly entered by the user.

You can turn Hold Value on or off by:

- checking or clearing the check box the particular field in the 'Hold Values' window,
- right-clicking a particular field on the main Capture window, or

When Hold Value is active for a particular field, a **push pin icon** appears next to the field. See image below.

When Hold Value is **turned on** for a field:

- The value for that field will be retained until it is explicitly changed by the user.
- If a field containing patient-specific information is 'held', and the patient is changed, the field will be updated with the new information, but the Hold Value option will remain active.

NOTE: Hold Value settings are cleared when a user exits the Capture application unless they have saved the settings as a configuration button.

Patient Only Images

Click "Association" button and Select one of the three options available under "Patient Only": Clinical, Photo ID or Administrative as shown in the image below.
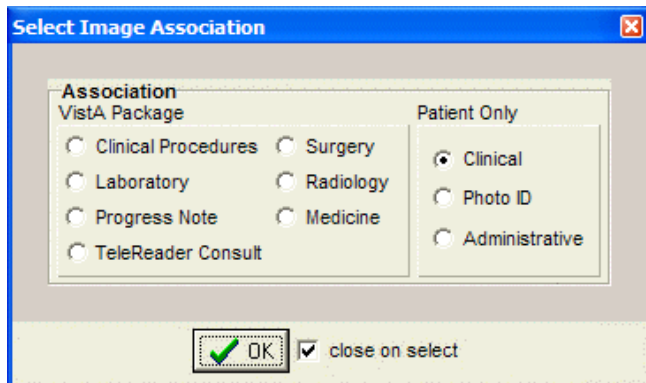
Images with Patient Only association are not associated with any Packages. When Clinical option is selected under association, Study Performed changes to CLIN on the

left side of the Capture Screen.

Also **NOTE** that the images with Patient Only Association can be displayed through Clinical Display but NOT referenced in CPRS.

Administrative Documents

Administrative documents can be scanned using the Administrative **association**.

- Select a Patient by clicking the 'Select Patient' button.
- Select the type of administrative document to be scanned from the list. For example, MEANS TEST may be selected.
- Enter the document's date such as 12/14/2001 or T for today's date.

The Image Description will say MEANS TEST (10-10EZ) or whatever Document type was selected from the pull-down list. The description may be edited.
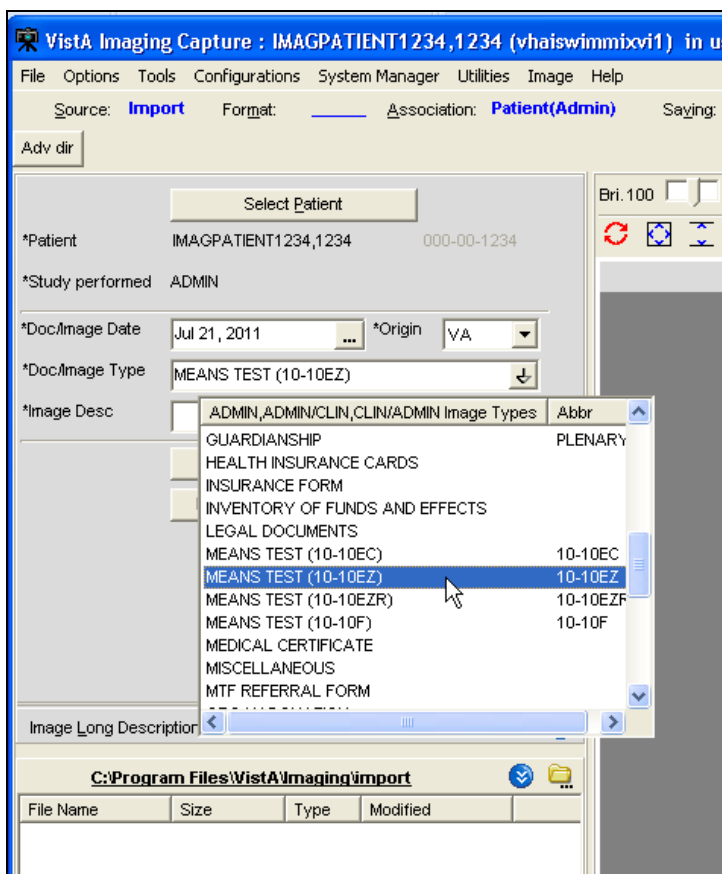
- Place MEANS TEST document on scanner.
- Click the capture button to begin scanning.
- Check the 'MultiPg Doc' box if you wish to use the automatic document feeder on your scanner. Leave this box unchecked if using the flatbed scanner.
- Click the capture button to begin scanning.
- The scanned image will appear on the right side.

If you have the menu item Options| Show Configuration Messages checked, you will be asked to confirm the save settings. NOTE: This setting is saved as a user preference.
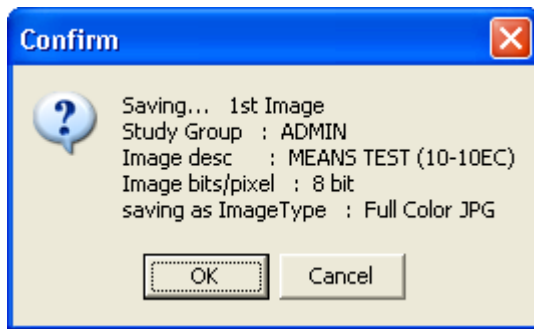
Click the **OK** button to confirm.

Attaching Documents to Notes or Reports

If the "Association" ![Association:] value in the configuration settings bar displays a VistA package—such as Medicine, Progress Notes (TIU), or Surgery—you will need to select a VistA report or progress note to "attach" the scanned document to.

The steps used to select progress notes or reports vary based on the package that the note or report is stored in. Detailed steps for each package are covered in the following subsections.

Selecting a Progress Note (TIU)

After Selecting a Patient, choose option Progress Note after clicking the Association ![Association:] button in the configuration settings toolbar. Click OK.

Once Progress Note Association is selected, Association value displays TIU as shown below.

Click ![Select Progress Note] button located on the left side of the Capture window. The Progress Notes dialog will open.
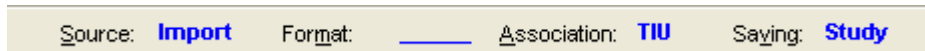
In the list of progress notes for the current patient, click the note that you want to associate with the scanned document.

Click OK. The Progress Notes window will close.

Verify that the left side of the Capture window shows appropriate values in the Study Performed, Note Date, and Image Description fields. For information on entering values in the other fields, see the *Image Index Guidelines* section.

Progress Note, Discharge Summaries, Clinical Procedures list

Follow above instructions to open Progress Notes window (see image below). Progress notes, Discharge Summaries and Clinical Procedures are listed in this window. In this window,

- Progress Notes can be sorted by signed, unsigned & by author to show only applicable notes.
- A new Progress Note can be created. See the *Create New Progress Notes* section.
- Addendum can be entered, and a status can be assigned to it. See the *"Make Addendum" Option for Progress Notes* section.
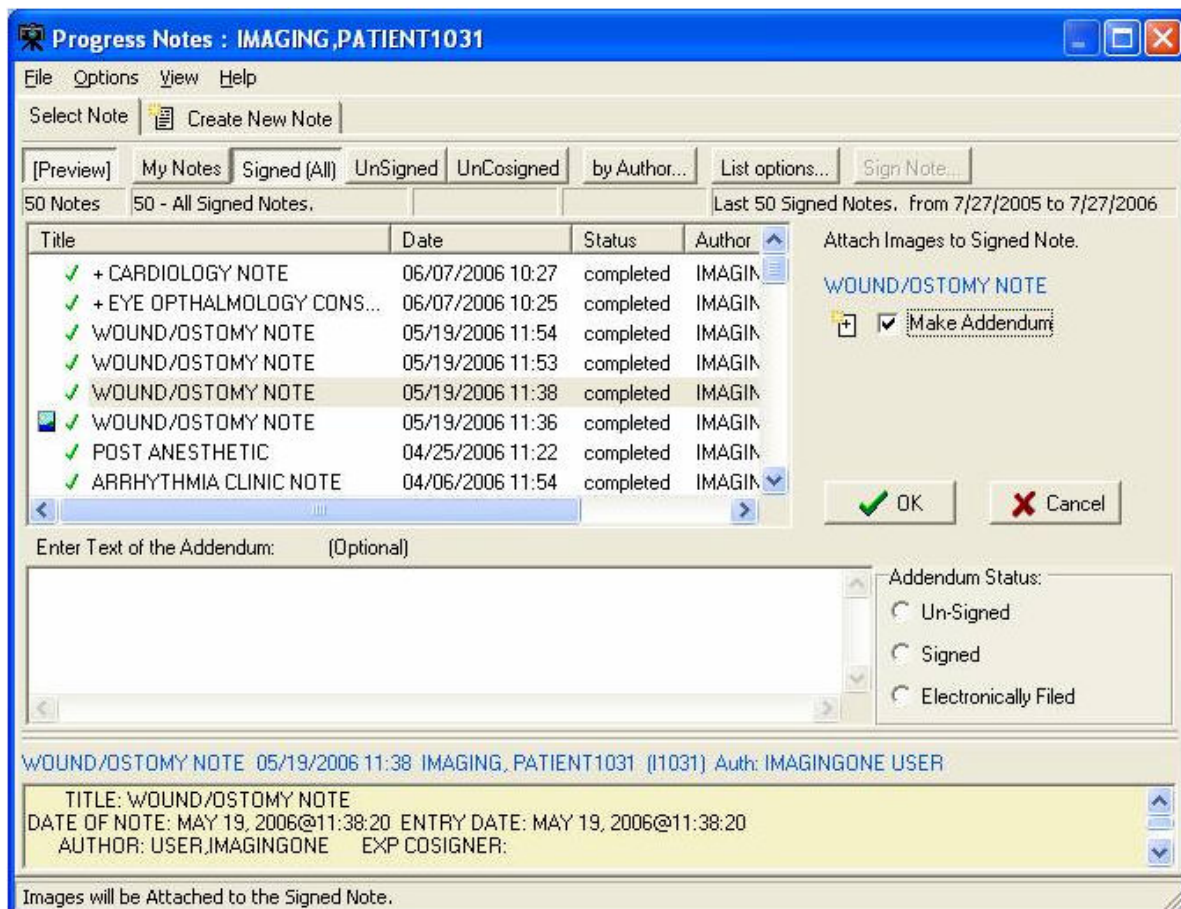
"Make Addendum" Option for Progress Notes

You can add an 'addendum' to an existing signed (or electronically filed) progress note. An addendum inherits many of the properties of its 'parent' note, however, it has its own status and can have its own text and/or attached image.

The use of addenda is optional. To create an addendum, follow these steps:
(1) Open the Progress Note dialog and display the Select Note tab.

(2) Select the note that will have the addendum added.

(3) Click the Make Addendum checkbox on the right side of the dialog (this checkbox is not present for unsigned notes).
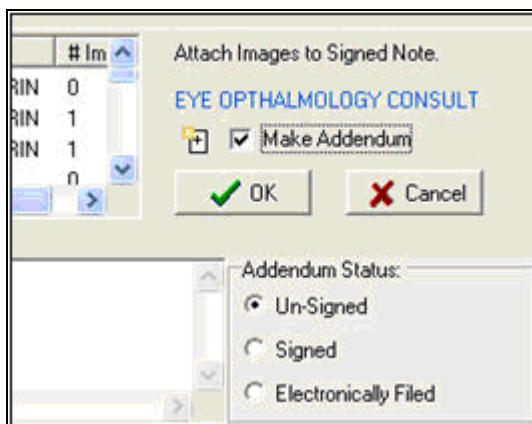
(4) Enter addendum text, and select the status to be applied to the addendum when the image capture is complete.
Existing addenda, if present, can be shown or hidden using the *View | Show Related Notes Addendums* option in the Progress Notes dialog.

- When addenda are hidden, a + sign indicates if a note has an addendum.

○ When addenda are visible, each addendum is listed under its related note.

NOTE that when addenda are displayed:

- o Column sorting is disabled.
- o Signed or unsigned notes can be displayed, but not both at the same time.
  - ▪ When unsigned notes are displayed, sorting is based on the date of the unsigned note or the date of any of that note's unsigned addenda.
  - ▪ When signed notes are displayed, sorting is based on the date of the signed note (the date of any addenda are not considered).
  - ▪ For the purposes of sorting, electronically filed notes are considered signed.

Create New Progress Notes

You can create a new progress note in Capture, to reduce the need to switch back and forth from CPRS. To create a new note, the click **Select Progress Note** in the main Capture window, and then use the **Create New Note** tab in the Progress Notes dialog.
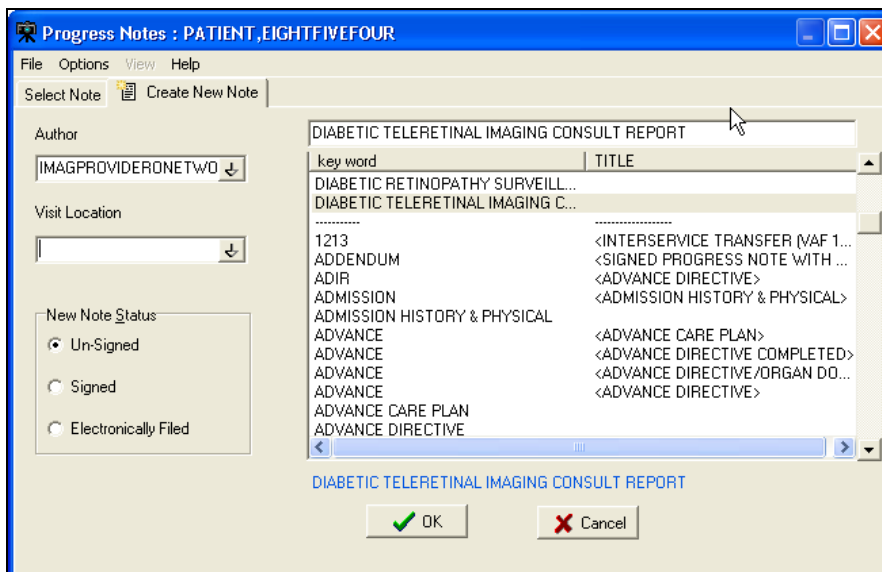
(1) The *Author* box is pre-populated with the current user's name. You can enter the name of a different user as well.

(2) The *Visit Location* box needs to be populated.

For the Author Box and the Visit Location Box, entering the first few characters will display a list of all entries that match the characters typed. The User does not have to Press Enter.

(3) The *Note Status* area allows you to indicate what the status of the note should be set to *once the image capture is complete*. The ability to set a note's status is described in more detail in the *Sign or Electronically File Progress Notes* section.

(4) The *Enter Text* box can be used to enter text for the note. Boilerplate text, if defined, may be present already. (Templates, however, are not implemented. To work with a template, the note must be created using **CPRS**.)

(5) The note title area can be populated by selecting a note from the scroll list, or by entering the first few characters of the note title (which causes a clickable list of matching note titles to display).

Sign or Electronically File Progress Notes

You can assign a status to a progress note directly from Capture. To do this, open the Progress Notes dialog, and then select an existing note or create a new note. Then click an option in the status area indicating what the status of the note should be.
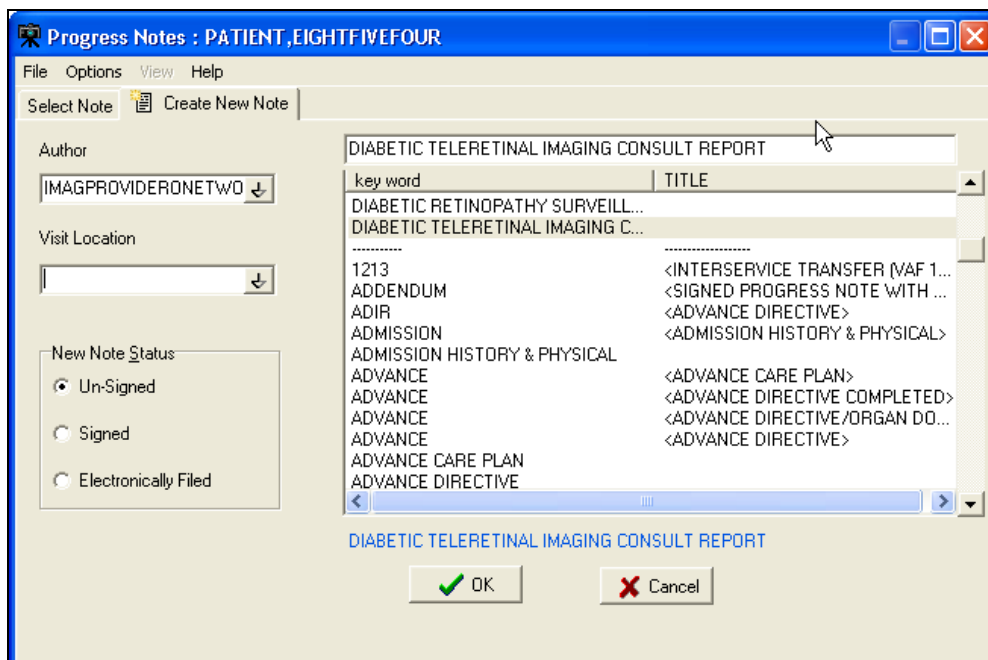
- When **Un-Signed** is selected, the note status is not changed when the capture is complete.
- When **Signed** is selected, the user will be prompted to enter a signature after completing the image capture, and the note's status is updated automatically.
- When the **Electronically Filed** option is selected, the note is considered 'closed' when the capture is complete—no signature is needed. This option should be used for notes/scanned documents (such as consent forms) that do not require a clinician's signature. The Electronically Filed option is only visible to users that have the security key, MAG NOTE EFILE. Only users who have this new key can set a note's status to Electronically Filed.
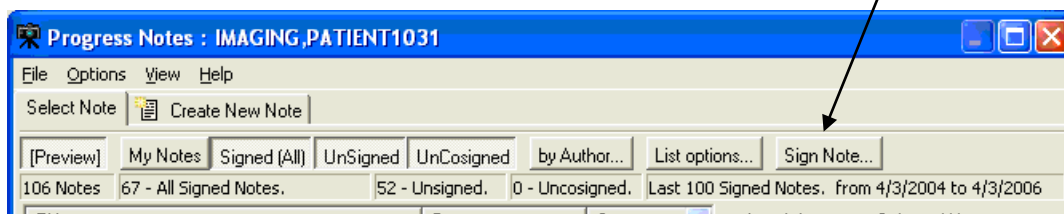
Attaching a Scanned Document to Different Author's Progress Note

A site may elect to scan documents and attach them to Progress Notes.
There are various ways to attach documents to progress notes.

There are two ways to save the attachments as Single or Study/Group this example is for
a Single Capture. Study/Group has an extra button in the Capture window.

To attach a document or an image to a note that alerts the provider that he/she has an unsigned
note:
1. Logon to VI capture/select the patient if running as a standalone system.
2. Click the configuration button created for the particular capture type.
   Some index fields will be filled in depending on how the configuration button was
   created.
   The capture staff will determine what fields need to be filled in.
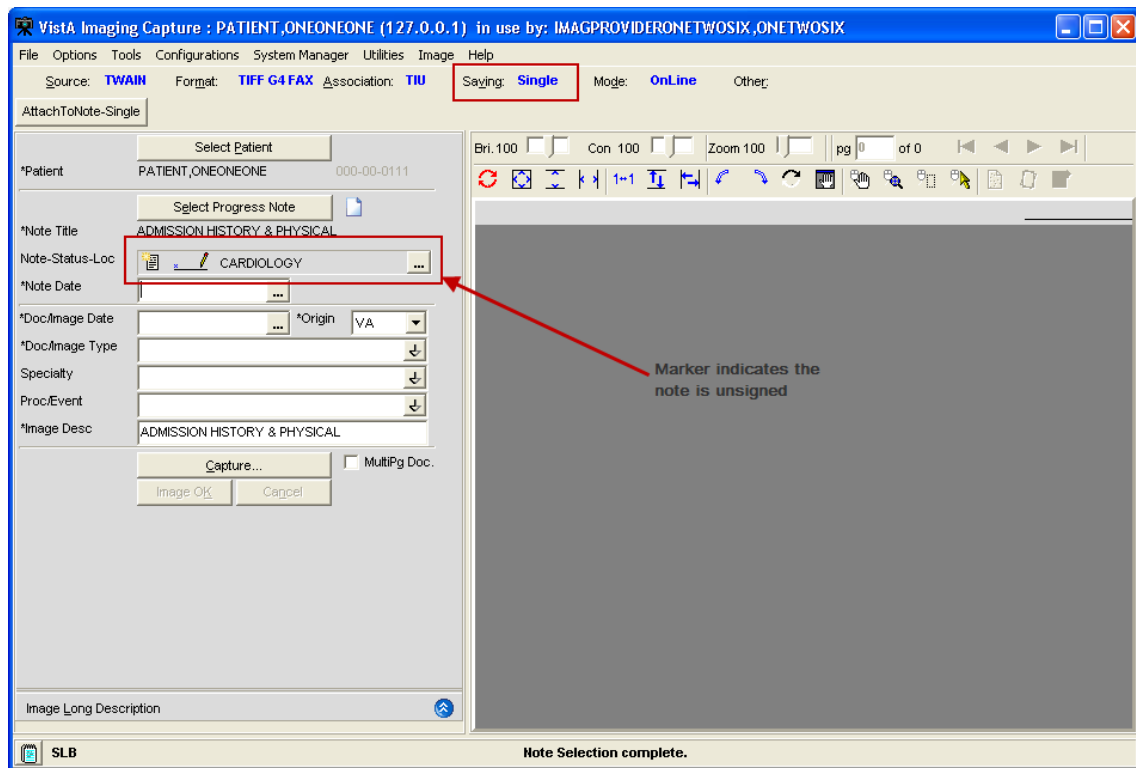
3. Click the **Select Progress Note** button.

4. Under the **Create New Note** tab:
    a. Change the **Author** by typing in a few initials of the last name, all matching entries are listed.
    b. Select the **Visit Location**.
    c. Select the **New Note Status**.
    d. Select the note **TITLE**.
    e. Click the **OK** button.
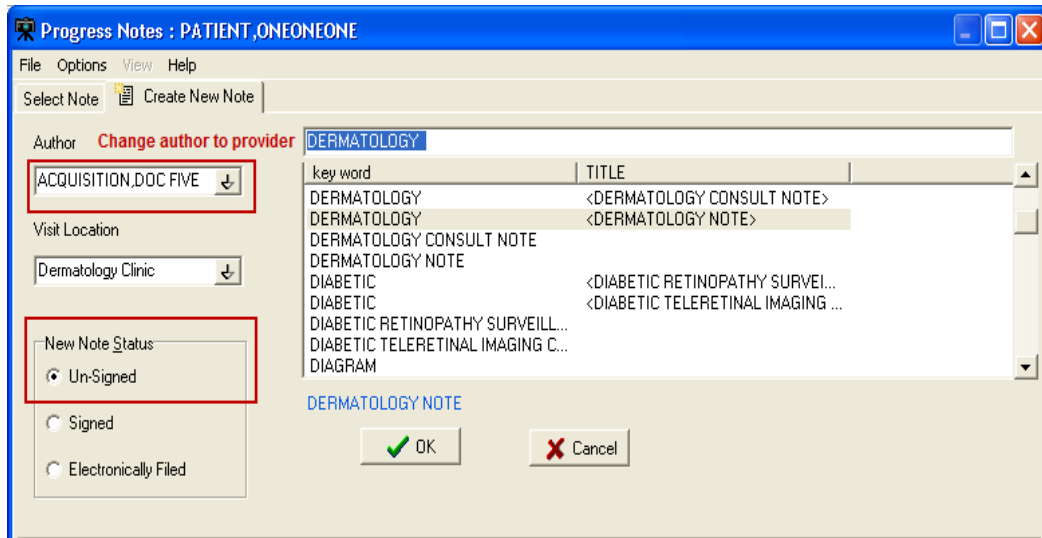
5. On the main Capture window the **Note Date** and **Document Image Date** will need to be filled in; and are based on site policy, (could be date of service, date of scan, date of order etc…) both fields could have the same date or different dates.

6. Click the **Capture** button.

    The item scans and is viewable in the capture window.

    Use the tools for best view.

7. Click the **Image OK** button.

    A confirmation window displays on the screen

8. Click **Image OK** ___Image OK___ or **Cancel** (if you click cancel the document is removed from the screen and you can re-scan), if you click OK and it is a Single Saved Capture the document will be saved.

    The provider will get an Alert in CPRS that they have an unsigned note.

    Until the provider signs the note other users will not be able to see the attached document. The exception being if the site has setup specific business rules to allow others to view images when there is an unsigned note.

Progress Notes Window Options

Filtering options for select progress note list
In the button bar used to filter the list of available Progress Notes, the **Signed, Unsigned, and UnCosigned** buttons can be used in any combination (previously, only one of these buttons could be active at once).
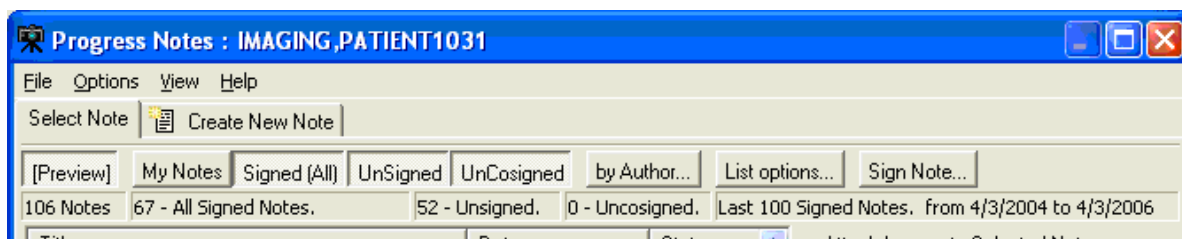
You can also use the new **My Notes** button to list only your own notes.

List Options

Click the List Option ![List options...] Button to open the List Options window as shown below.
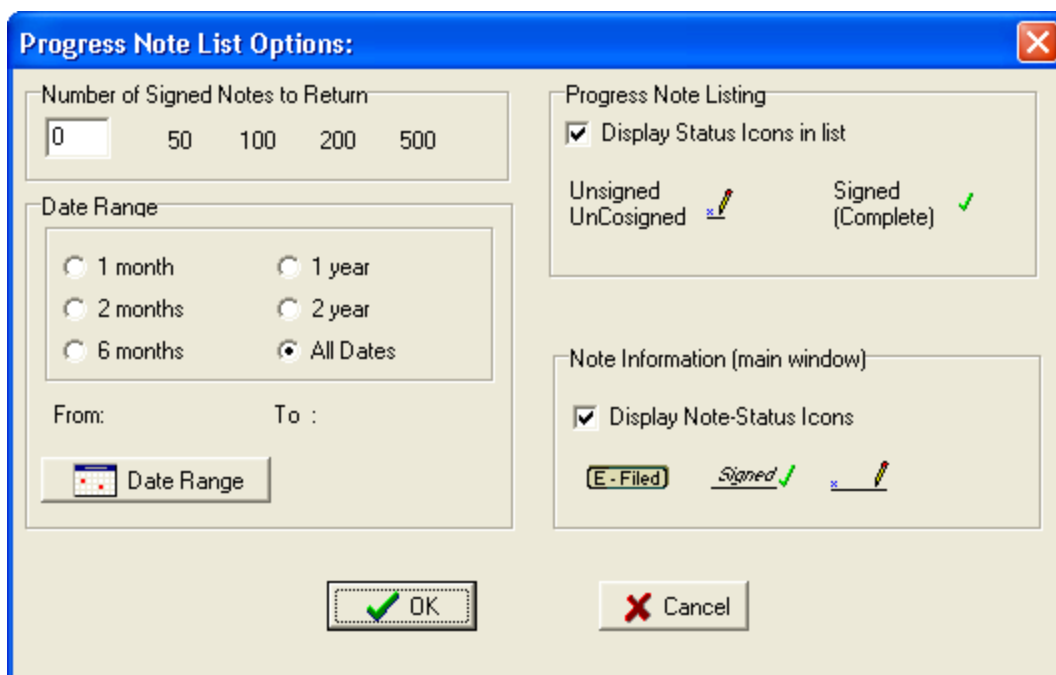
If the Display Status Icons in List box is checked, the Progress Notes window will display icons next to the notes, indicating the status of that particular note.

Preferences for Progress Notes

You can customize aspects of the Progress Notes dialog such as the number and date range of notes to retrieve, and whether or not to use status icons in the notes listing and in the main Capture window. The Progress Note List Options dialog can be accessed from the Progress Notes dialog by clicking *Options | List Options*, or by choosing the **Select Note** tab and clicking the new *List Options* button.
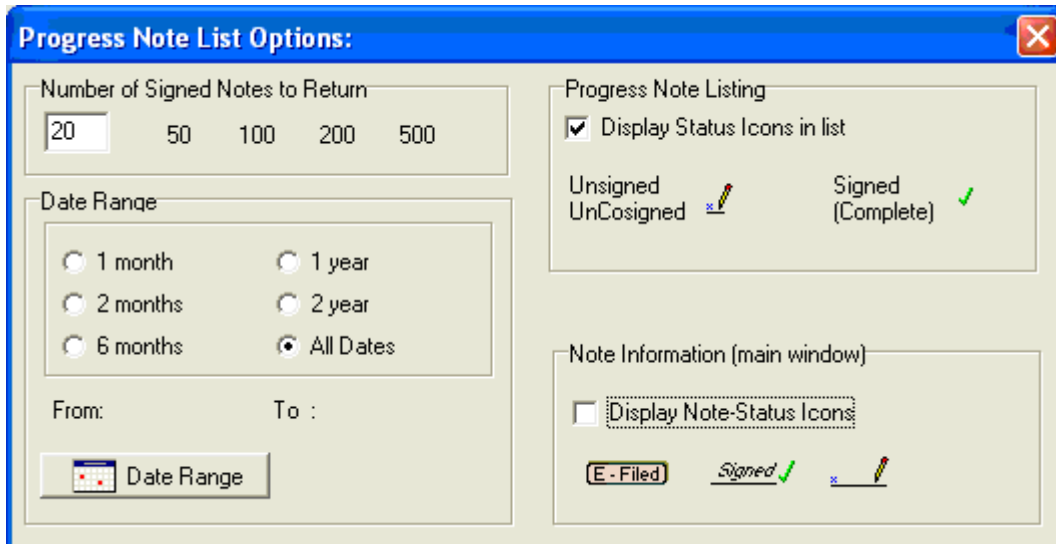
Note Listing Status Bar

The status bar displays the total number of notes listed, the counts of each selected status, the total number of notes listed, and the selected date range.
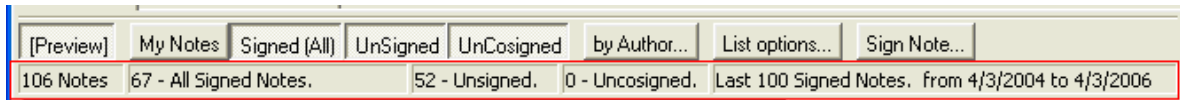
Consults

If the *Title* of the new Note is a 'Consult' Title VistA Imaging will display a list of Patient Consults and require that the user make a selection.

When the New Note is successfully saved, and the Status of the New Note is Signed or Electronically Filed, the Consult status will be updated to 'Complete'.

NOTE: If the title selected is Consult Title and the patient selected does not have any consults, a message dialog indicating the patient does not have any consults will be displayed.

Show Related Notes / Addendum
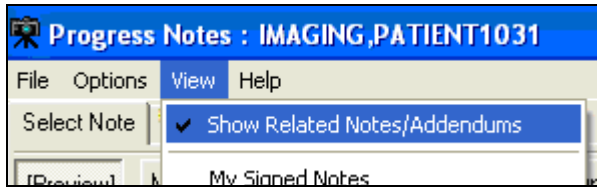
When the menu option 'View|Show Related Notes/Addendum' is checked,

- all Notes and Addendums related to the listed Notes
- Addendums are displayed in a 'Tree Style' list.

(Addendums are listed directly under the Note and are indented)

The graphic *below* shows a list of *completed* notes/addendum for a patient, when the menu option:

- 'Show Related Notes/Addendums' **is Not** checked.

(A list of completed Notes and Addendums for the patient, sorted by date.)

The next screenshot shows a list of completed notes/addendum for a patient when the menu option 'Show Related Notes/Addendums' is checked.

(All Notes/Addendums, Signed and Unsigned, are now displayed.)

When this view is selected (i.e. Show Related Notes/Addendums is checked.)

- Sorting of the columns is disabled.
- Either Signed or UnSigned can be selected, but **not** both.

If UnSigned Notes are listed, sorting is by the greater of:

- The date of the Unsigned Note
- Or the date of any of its unsigned Addendums

If Signed Notes **are listed**, sorting is by the greater of:

- the date of the signed Note

(The date of any Addendum is not considered)

Workload Credit
Users of VistA Imaging Capture can create new Notes to associate with captured images (scanned or imported images/ documents). By default, the visit status of new notes created in VistA Imaging Capture is set to 'Historical'. This ensures that the visit is not used for workload credit.

Historical visit
Historical visit status is used for documenting a visit that occurred sometime in the past (exact time may be unknown) or at some other locations (possibly non-VA) and is not used for workload credit, they can be used for setting up the reminder maintenance system.

- By default, visit status *via VistA Imaging Capture* is set to historical. This ensures that the visit is not used for workload credit for documents captured.

Consults
When a 'Consult' Note is created in VistA Imaging Capture the user must select from a list of Patient Consults.
The Consult is marked as 'Complete' when:
(a) The Image Capture process is successful, **and**
(b) The resulting status of the Note is 'Complete' by signing, or electronically filing the Note.

Frequently Asked Questions
The scanning FAQ document is posted on the HIM website under "Document Scanning" at *http://vaww.vhaco.va.gov/him/Scanning.asp*.

The document scanning webpage also contains links to scanning websites, examples of position descriptions/standards and examples of policies and procedures.

Progress Note Info Saved with Configuration

Additional information related to the selected progress note/addendum is saved when a Capture Configuration is saved. This information is applied when the capture configuration is selected.

Type of note	What is saved (this is reapplied when a configuration is applied)	When happens when 'Select Progress Note ' is clicked
New Note	Creating a new note Selected title Intended status Hospital location	List of note titles displayed The title is used as the default Intended status is used as default Used as default location
Addendum	Making an addendum Intended status	Existing signed notes are listed Used as default in status area
Completed Note	Current status (complete) Intended status	Completed notes are listed Used as default in status area
Unsigned Note	Current status (unsigned) Intended status	Unsigned notes are listed Used as default in status area

* Intended status can be:

- Signed ( )
- Electronically Filed (E-Filed) or
- Unsigned (× ✎)

Selecting a Surgical Case

The Surgery Case List is used to select a case to be associated with the captured images.
After Selecting a Patient, choose option Surgery after clicking the Association
Association: button in the configuration settings toolbar. Click OK.
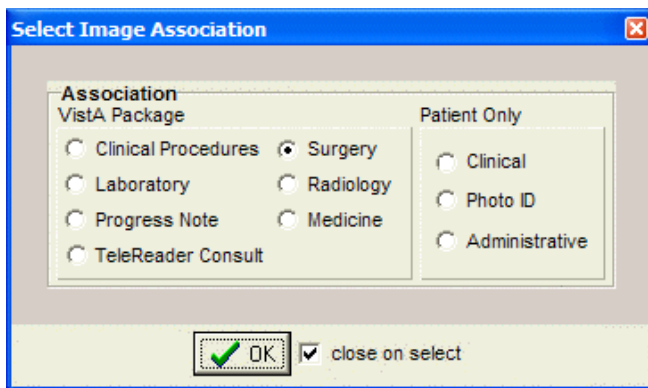
Click the Select Surgery Case button located on the left side of the Capture
window.
Select the case to be associated with the documents you will be scanning.

The Surgery Case List is used to select a case to be associated with the captured images.

Select an entry from the list and click the 'OK' button. See image below.
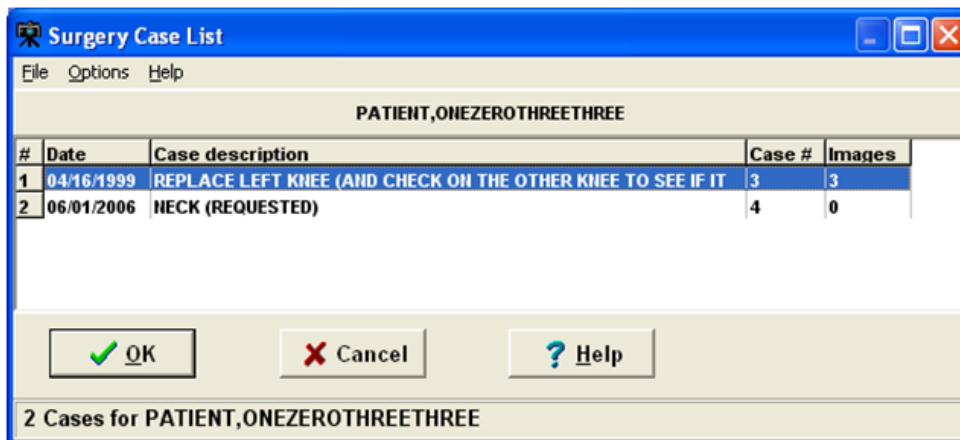
The Surgery Case List box will close.

Notes:
The widths of the columns can be changed by selecting the column dividers and dragging them to the left or right. There are alternate ways to select a Surgery Case from the list. See Import Image Directory.
If there are no Surgery Cases associated with the selected Patient, a warning message is displayed as shown below.
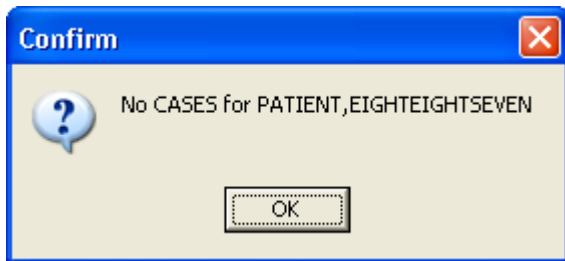
Select Directory of Images to Import

VistA Imaging Capture is in 'Import Mode' when 'Import' has been selected as the input Source. In Import Mode, the directory from which images are to be imported must be selected.

Open the 'Select 'All files' in Directory (or Selected Images)' window, using one of the following options:

- Clicking the folder button in the left frame of the capture window.
- Selecting the menu option '*Options|Import* Directory'
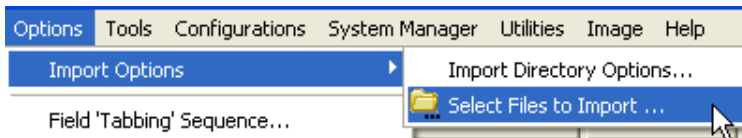
- Click the Import directory that is displayed, or right-click the Import directory file list and select "Select Files to Import" Option.
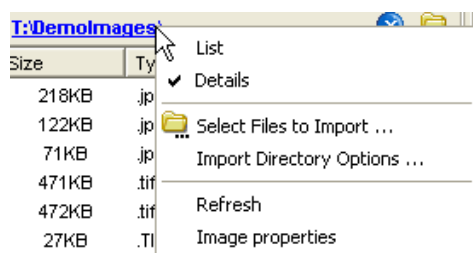
- Select the Drive, Directory and file mask (*.TIF). The images in that directory matching the mask will be displayed in the file list box.

- When the 'Open' button is clicked, the image files will be redisplayed in the Import directory file list box on the Main Capture window.
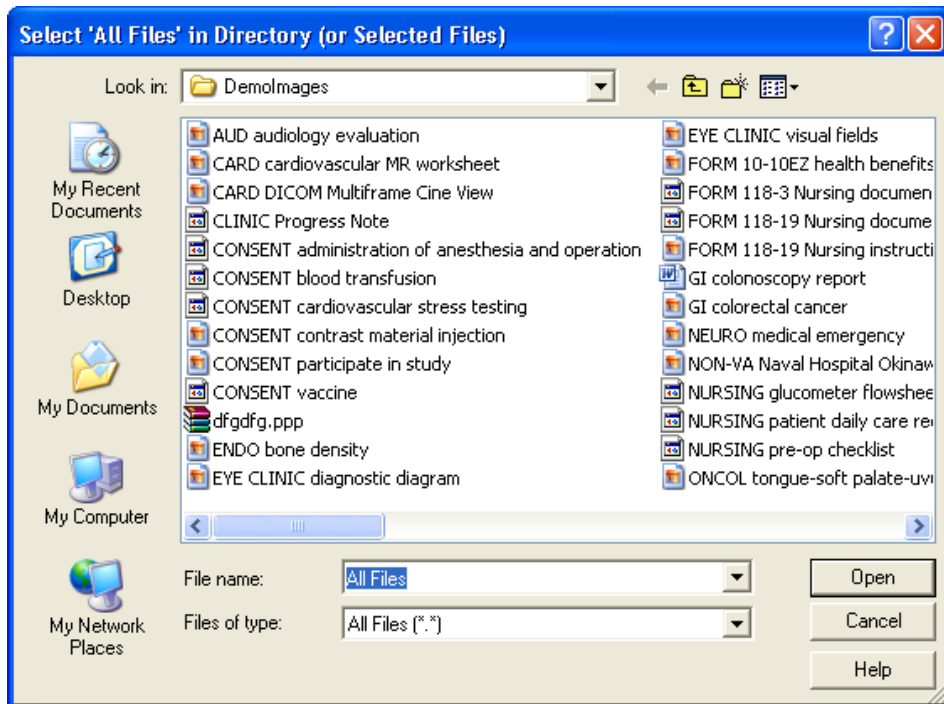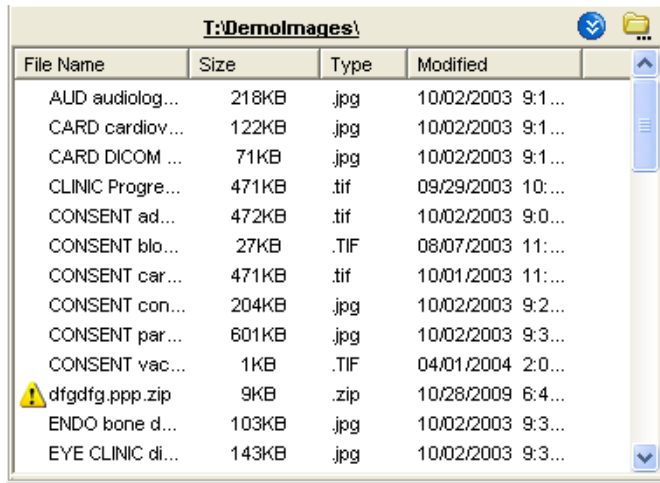
Notes:
The images displayed in the file list box in this window are for display purposes only. Images aren't selected from this window, just the directory.

If 'Save as default' is checked, the Drive, Directory and file mask will be saved by the system and used as defaults the next time this window is opened.

File mask or file filters are used to limit which files will be displayed in the file

list box. The most familiar mask is '**.***'. This will display all files. Alternate masks can be typed, or selected from the list.

Verify that the left side of the Capture window shows appropriate values for Study Performed, Case Date, and Image Description. For information on entering values in the other fields, see the *Image Index Guidelines* section.

Selecting a Radiology Exam

After Selecting a Patient, choose option Radiology by clicking the Association Association: button in the configuration settings toolbar. Click OK.
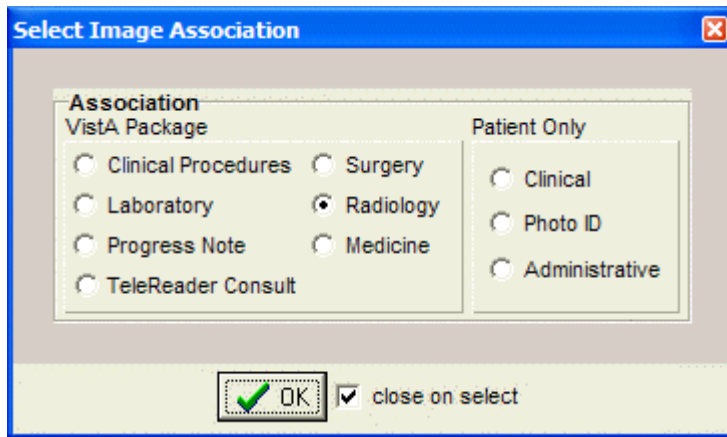
Click the Select Radiology Exam button located on the left side of the Capture window. Select the procedure that you want to associate with the documents you will be scanning, then click OK.
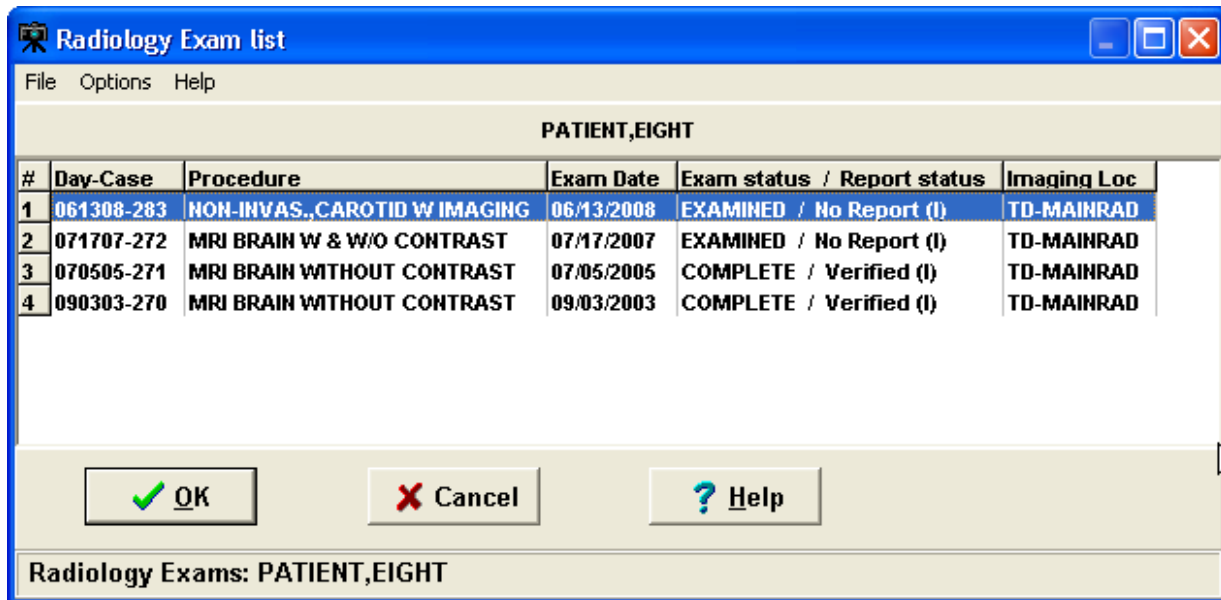
Verify that the left side of the Capture window shows appropriate values for Study Performed, Exam Date, Case Number, and Image Description. For information on entering values in the other fields, see the *Image Index Guidelines* section.

Selecting a Laboratory Specimen

After Selecting a Patient, choose option Laboratory after clicking the Association Association: button in the configuration toolbar. Click OK.
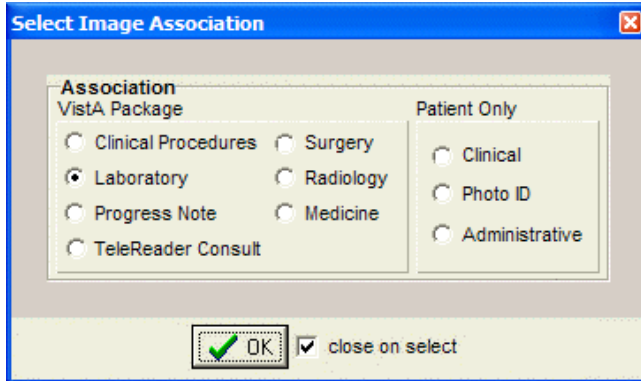
1) Click the Select Laboratory Specimen button located on the left side of the Capture window.
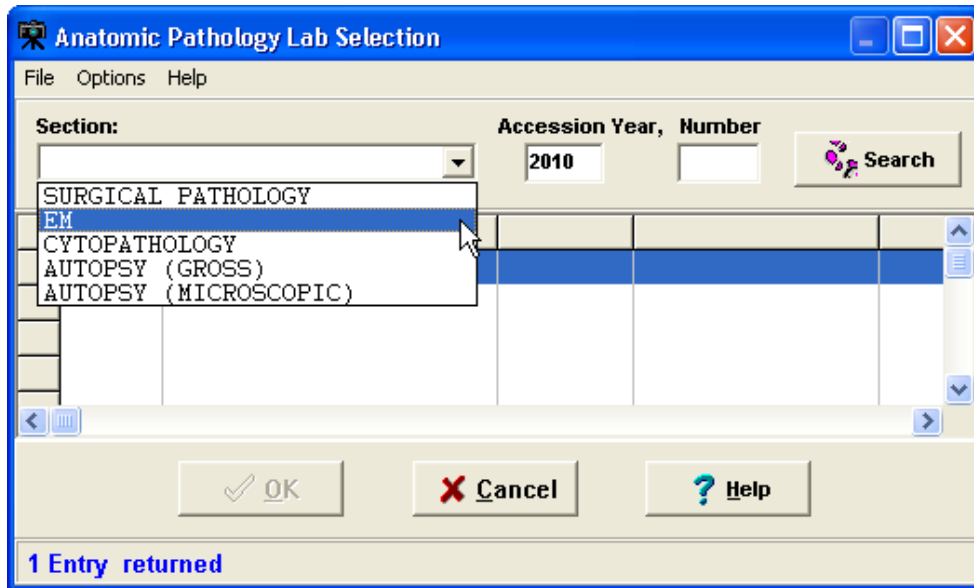
Note: If selected lab is for a different patient then the patient in the main capture window changes to match the selected lab.

2) Click the arrow next to the Section list, and select the section that you want to display a list of lab specimens for. Then enter the accession year and number in the Accession Year and Number boxes.

3) Click Search. A list of specimens for the section you selected will be displayed.

4) Select specimen, then click OK. The Anatomic Pathology Lab selection window will close.

5) Select a value for the Objective field (use "1" if there is no applicable objective).

6) Select a value for the Stain field (use "NONE" if there is no applicable stain).

7) Verify that the left side of the Capture window shows appropriate values for the lab-related fields, Study Performed, Specimen Date, Accession No., and Image Description.

Selecting a Medicine Procedure

After Selecting a Patient, choose option Medicine after clicking the Association

Association: button in the configuration toolbar. Click OK.
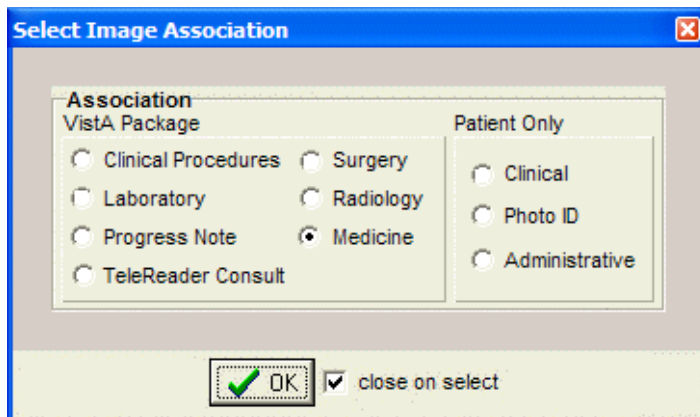
You can either select an existing medical procedure, or create a new medicine procedure.

Selecting an Existing Medicine Procedure

The screenshot of the Medicine Procedure/Subspecialty window is below.
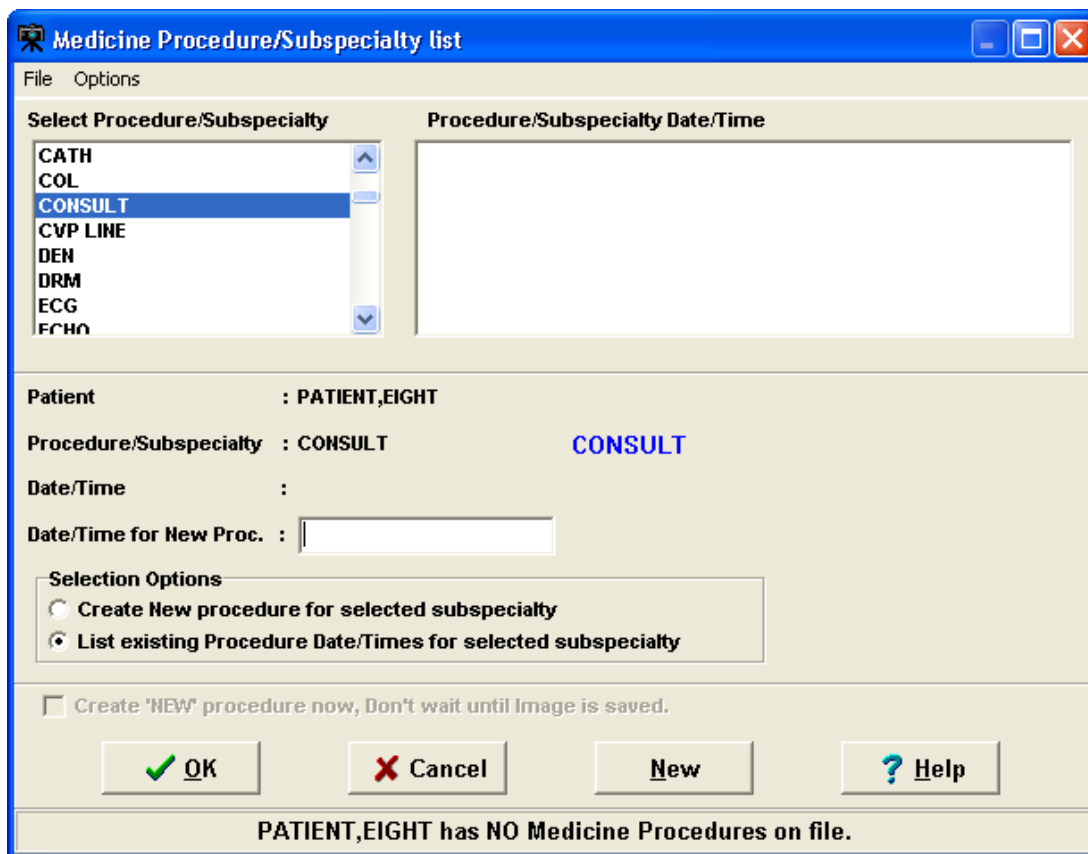
To select an Existing Medicine Procedure follow the steps below:

1) Click the [Select Medicine Procedure] button located on the left side of the Capture window. The Medicine Procedure/Subspecialty dialog will open.

2) Double-click a Procedure/Subspecialty.

3) Then click to select a Procedure/Subspecialty Date/Time

4) Click OK or double-click the procedure to choose. The Medicine Procedure/Subspecialty list will close.

5) Verify that the left side of the Capture window show appropriate values for Study Performed, Procedure Date, and Image Description. For information on entering values in the other fields, see the *Image Index Guidelines* section.

Notes:

- The Procedure/Subspecialty will remain selected when this window is opened again.
- The Procedure/Subspecialty list can be limited to certain procedure types based on assigned 'Imaging Capture keys'. In the Selection area located near the bottom of the dialog, click the second option.

Creating a New Medicine Procedure

Shown below is a screenshot of the Medicine Procedure/Subspecialty list window.
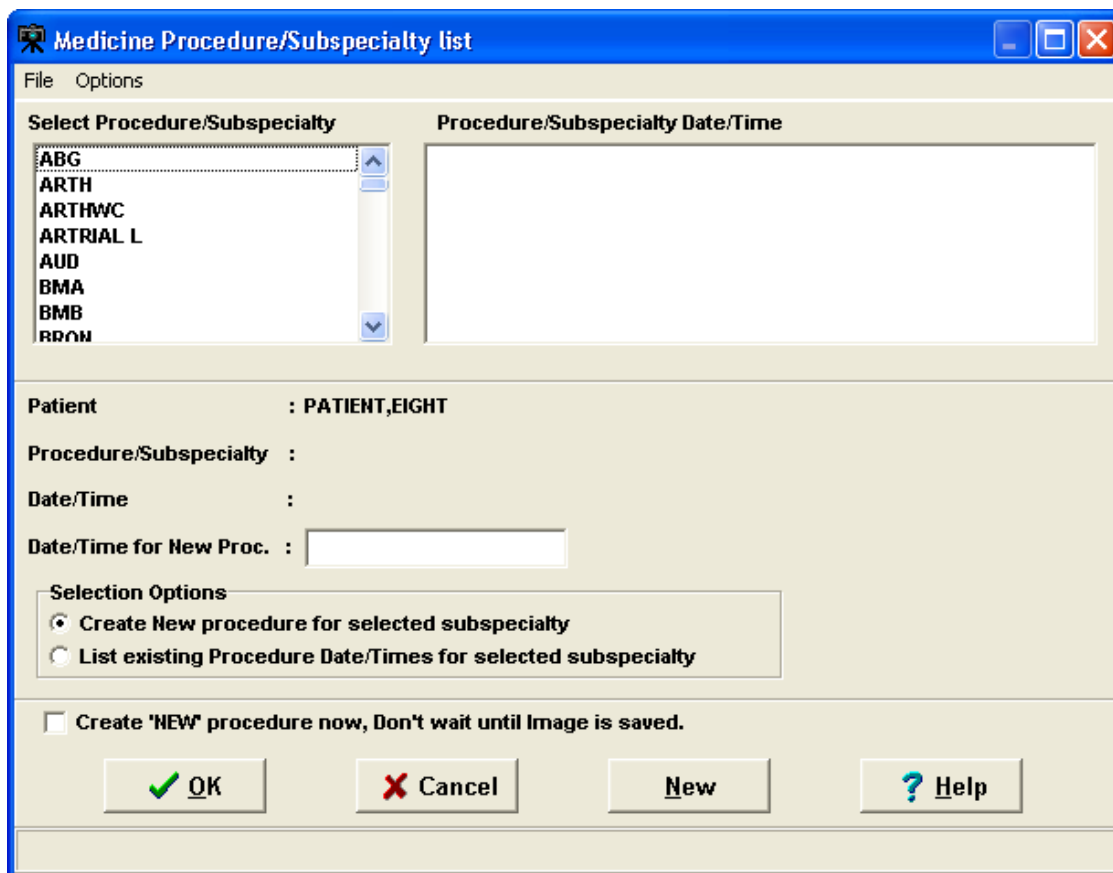
After Selecting a Patient, choose option Medicine after clicking the Association Association: button in the configuration toolbar. Click OK.
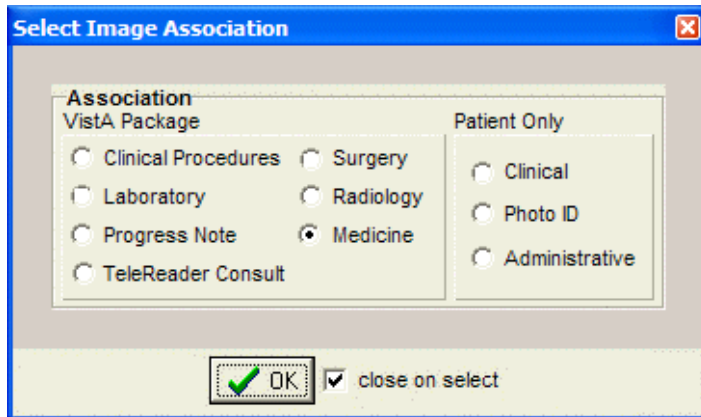
Click the [Select Medicine Procedure] button located on the left side of the Capture window. The Medicine Procedure/Subspecialty List dialog will open.

Create New Procedure for Selected Subspecialty

- To create a new procedure, before the image is saved.
- The current date/time is used for the procedure.
- Click in the box to Create 'NEW' procedure now, or the procedure is created when clicking the OK button on the main capture window.

In the list on the left side of the window, select the specialty for the procedure that you are creating.
NOTE: Depending on the Security Keys assigned to user, some procedures may or may not be visible.

In the Selection area located near the bottom of the dialog, click the first option and Click OK.
The Medicine Procedure/Subspecialty list will close, and the new medical procedure will be created.
Verify that the left side of the Capture window show appropriate values for Study Performed, Procedure Date, and Image Description. For information on entering values in the other fields, see the *Image Index Guidelines* section.

Selecting a Clinical Procedure

After Selecting a Patient, choose option Clinical Procedure after clicking the Association
Association: button in the configuration toolbar. Click OK.
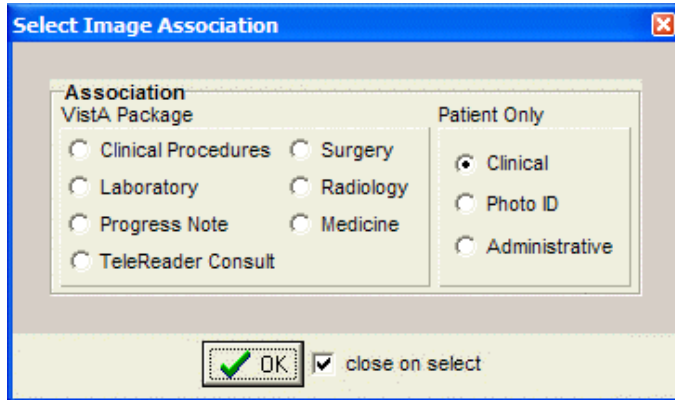
Click the Select Clinical Procedure button located on the left side of the Capture window,
just below the patient's name. The Clinical Procedure Requests window will open.
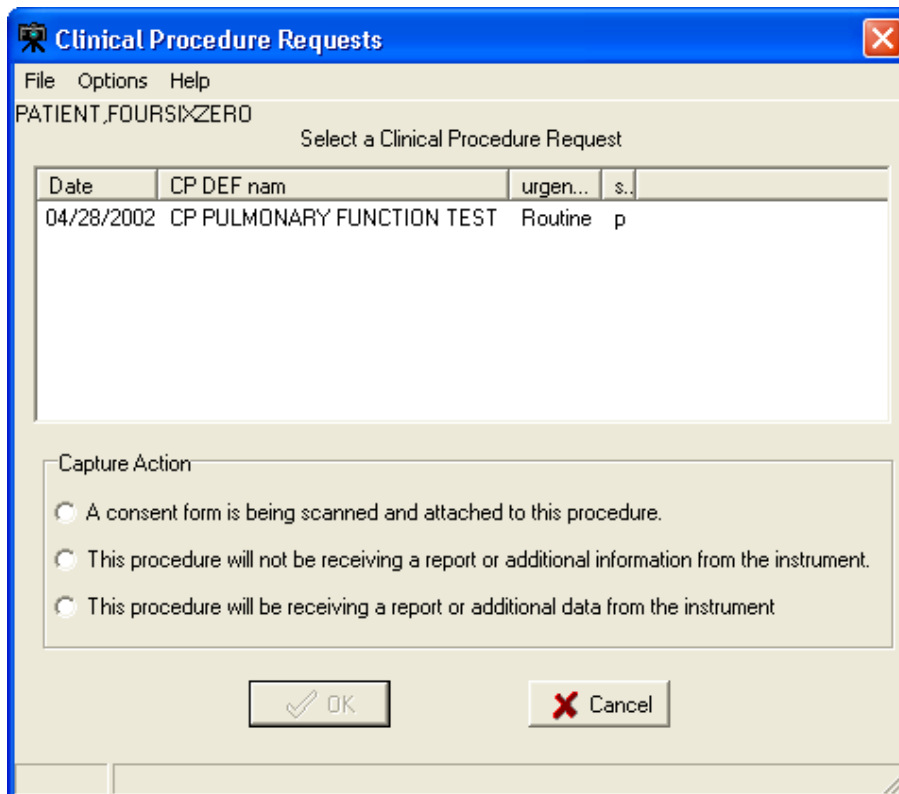
Select the Clinical Procedure you want to associate with the image you are capturing.
Select one of the three Capture Action options near the bottom of the dialog (see
explanation below).

Capture Action

Select	If the following is true
A consent form is being scanned and attached to this procedure.	The scanned document is a consent form. 'CONSENT' will be added to the Image Description field. (Additional instrument results can still be linked to the procedure request later).
This procedure will NOT be receiving a report or additional information from the instrument.	The scanned document is the last image to be captured before the associated note is signed.
This procedure will be receiving a report or additional data from the instrument.	There will be additional images or report files added to this procedure. A staff member will use the CPUser software to identify these reports before the associated note is signed.

After choosing the appropriate option, click the OK button.

If the Visit Listing box displays, select a date from the Visit list, or enter a new visit date in the New Visit Date/Time box. Then click OK to close the Visit listing box.

Click OK when finished.

After selecting a clinical procedure, verify that the left side of the Capture window shows appropriate values for Study Performed, Procedure Date, and Image Description.

Selecting a TeleReader Consult

In the Clinical Capture application window, click the **Association** button (below the menu bar) to associate your captured image(s) with a service or specialty.

Note: You can also create and click a configuration button to associate a captured image to a TeleReader Consult.
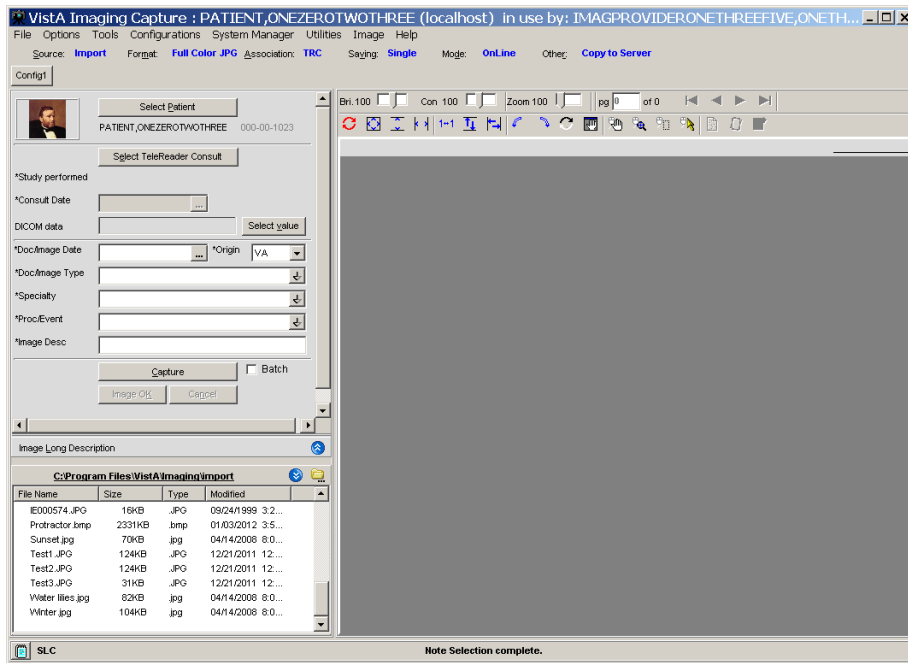
The Select Image Association dialog box is displayed.
Important: The options should be enabled as shown. If they are disabled (grayed out), contact your system administrator to configure your setup properly.
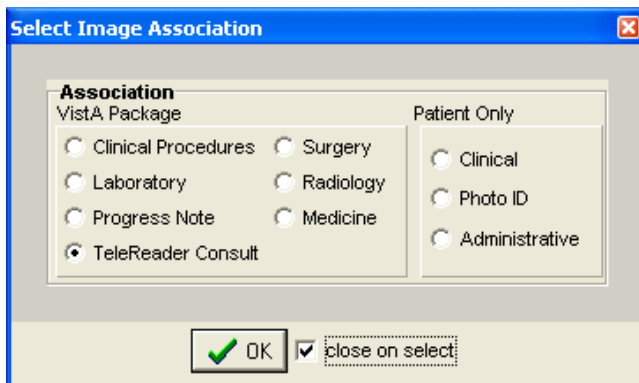
Select the **TeleReader Consult** option (clicking OK is not necessary when the close on select checkbox is selected, as shown)**.**

Note: When TeleReader Consult is selected in the Select Image Association dialog box, the Import option is selected in the Select Input Source dialog box and "Convert to DICOM" is displayed in place of "Copy to Server".
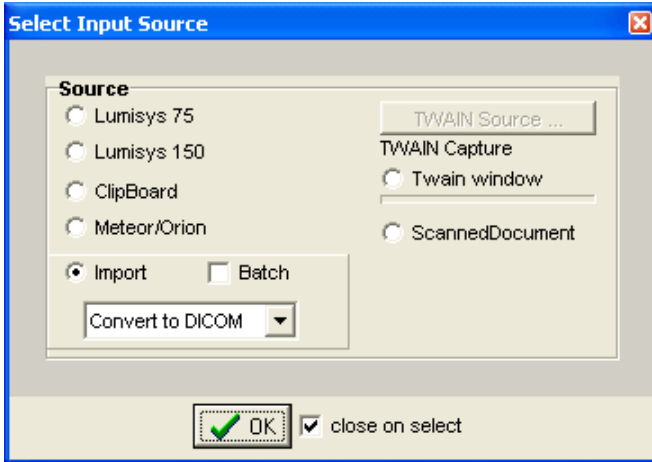
Select the appropriate patient.
The patient's photo, name, patient ID number, and Social Security number are displayed.

Click the **Saving** button (below the menu bar).

In the Saving as window displayed, select **Study (Group)** or **Single Image** (clicking OK is not necessary when the close on select checkbox is selected, as shown).
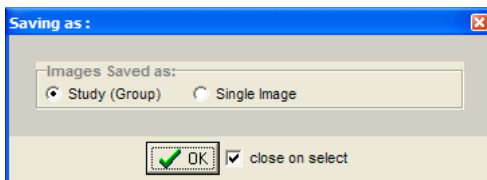
Click the **Select TeleReader Consult** button now displayed.
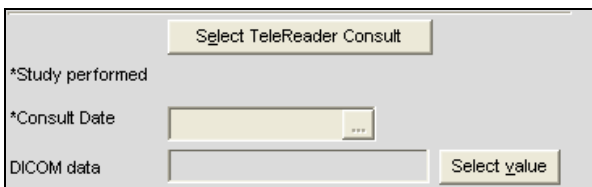
The TeleReader Consult Requests window is displayed.
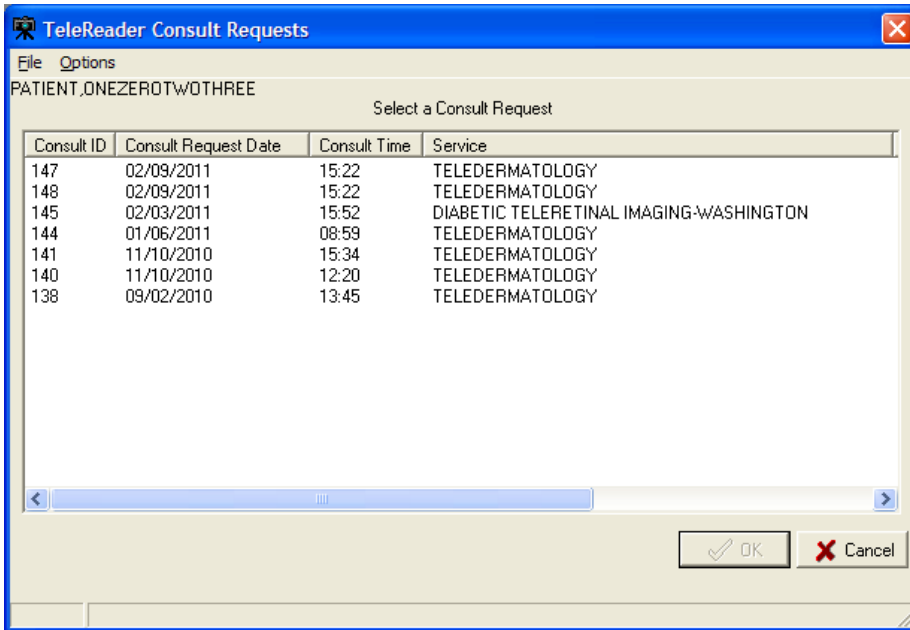
Select the consult request that you are using to associate with the images and click **OK**. In the Capture window, the consult date is filled in. The service (Teledermatology in this example) populates the fields for Study Performed and Image Desc.
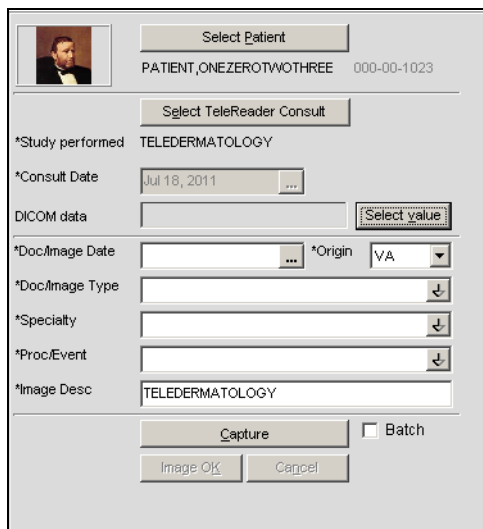
Select the appropriate data for the Doc/Image Date and Origin fields.

Select **IMAGE** or **CONSULT** for the Doc/Image Type field.

Select the appropriate data for the Specialty and ProcEvent fields.
Click the Select Value button next to the DICOM data field.

The DICOM Header Data Entry window is displayed.
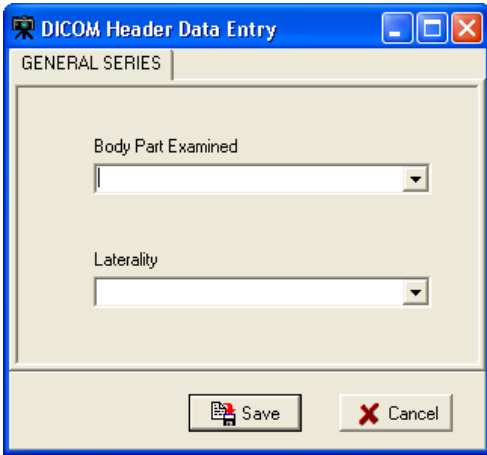
Select data for the fields for Body Part Examined and Laterality, and click **Save**.

The image is converted to a DICOM file format (*.dcm file).

In the lower left list box, import the photo(s) in one of two ways:
Important: The photos must be uncompressed JPEG or TIFF files.

- If you are uploading the photos to a drive, click the **Select Files to Import** icon shown, navigate to that drive and select it to make all the photos available.
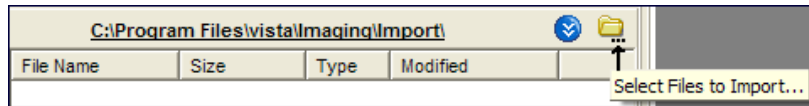
- Or, copy all the photos to the default C:\Program Files\VistA\Imaging\import folder shown.

All the imported files are displayed in the lower left pane.

Image Index Guidelines

All captures are indexed. The capture window has various index fields that can be filled in manually or saved as part of a configuration. Fields that have an asterisk to the left of the Index field title are required and must be filled in for the document/image to be saved.

Indexing Documents

It is essential that scanned documents are properly indexed (categorized) so they can be easily retrieved in the future. The following sections explain how this is done for scanned documents.

   Entering the Date and Origin
   Entering 'Type,' 'Specialty,' and 'Proc/Event' Values
   Entering Image Descriptions

NOTE: Additional fields will be present for documents that are attached to Radiology or Lab reports. Values for these fields are selected as described below.

Entering Date and Origin

When a scanned document is attached to a progress note or report, the Capture program will automatically use the date of the progress note or report. However, if the scanned document is to be linked directly to a patient, you will need to enter the date manually.

The Origin field, which indicates if the document is an internal VA document or if it is from an external source, will default to VA.

To enter the date and set the document origin Use the mouse or the Tab key to select the Document Date field. (Depending on your configuration settings, this field may appear as the "Doc/Image Date" field.)

Type the date in MM/DD/YY format. Enter the date that the document was created or signed (not the date the document was scanned). The scanning date is saved automatically.

If you need to change the value for Origin, select the Origin field, and choose the appropriate value from the pull-down list.

Entering 'Type,' 'Specialty,' and 'Proc/Event' Values

The Type, Specialty, and Proc/Event fields will typically need to have values selected by the user. (If "Patient (Admin)" is selected as part of the current capture configuration, the Specialty and Proc/Event fields will not be present.)

These fields may also have pre-defined values specified as part of the active capture configuration. Pre-defined values can be changed if needed.

To set Type, Specialty, and Proc/Event, select the field you want to enter a value for.

A value must be present in the Type field to complete a capture. Values for Specialty and Proc/Event should be set according to the policies at your site.
If are you not sure which values should be entered for these fields, contact your Clinical or Imaging Coordinator for guidance.
Use the pull down list to select a value appropriate to the document being scanned. You can choose a value by:

- Clicking the arrow to open the pull-down list, and then clicking a value.
- Typing the first letters for the value you want to select. Matching values will be displayed automatically. When the desired value is displayed, press Tab to move to the next field.

Entering Image Descriptions

The Capture program provides two areas were descriptions can be entered: the Image Description field and the Long Image Description field.

- The Image Description field will have a value automatically added when you select a progress note or report. If there is no progress note or report selected for the scanned document, the Image Description field will automatically have a value added when you select a Document/Image Type.
- The Long Image Description field is a free text field that can be used to record additional information about a scanned document. The contents of both of these fields can be edited by clicking them with the mouse, and then typing the information you want to enter.
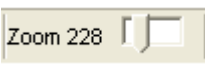
Image Capture Options
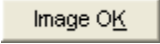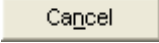
This section explains how a document is actually scanned using the Capture program. Please note that the setup at individual sites may alter how scanning is performed.

NOTE: If you are scanning several documents with similar characteristics, use the Hold Value feature.

Documents can be scanned as single images, or as a part of a group (a study). The method you should use depends on the type of scanner and on the scanning procedures at your site.
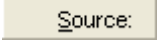
Scanning Documents as a Single Image

- Verify that the patient referenced on the document to be scanned matches the current patient shown in the Capture window.

- Verify that "Single" is shown in the Capture window configuration bar.

  Saving: **Single**

- Document will be saved as a "Single Image" If not "Single" click Saving Button to change the option to "Single"

- Place the document to be scanned into the scanner's feeder or onto flatbed.

- If the document has several pages, and if you are using a scanner equipped with a document feeder, verify that   is checked. This will allow you to scan all pages in the document into a single image file. Click   Capture   or press ALT+C to begin scanning.

- If the TWAIN window opens, you can accept the current scanning parameters by clicking Scan, or you can alter the settings (such as page size), and then click Scan.

- When the scanned document is displayed on the right side of the Capture window, check the quality of the image.

- Use the scroll bars and the Zoom slider   Zoom 228   to ensure all text is visible and legible. If needed, the DeSpeckle tool   can be used to remove stray pixels (black dots) from the image.

- If the image is rotated or upside down, use the orientation buttons to correct the problem. If the image is slightly crooked, use the DeSkew   button to straighten the image.

- Click to flip or rotate image vertically   .

- Click to flip or rotate image horizontally

- If the image is a multi-page document, use the paging controls to check each page.

- If annotations are necessary, click the Annotations button to open the Annotation toolbar and make annotations.

- If image quality is acceptable, click [Image OK] or press ALT+K.

- If the image is NOT acceptable, click Cancel [Cancel] or press ALT+L, then re-scan the image.

Scanning Multiple Pages

To scan multiple pages, select "MultiPg Doc." option as shown below:

Click the Source Button [Source:] in the Capture Window and chose Scanned Document Option.
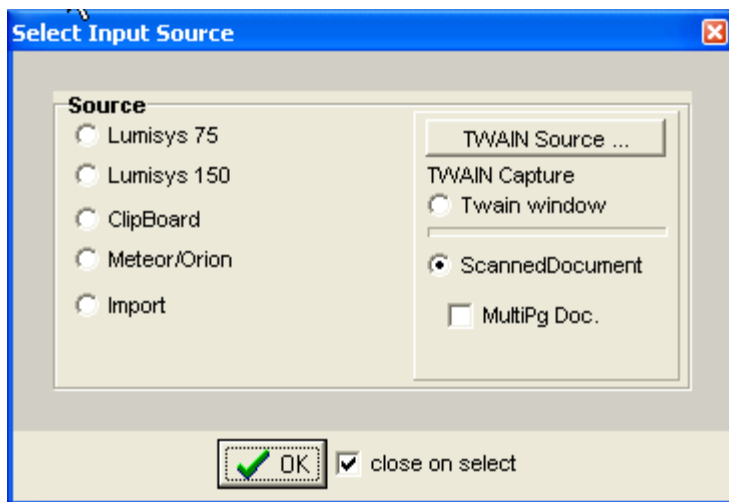
Under the Scanned Document, check the MultiPg Doc option to scan multiple pages.
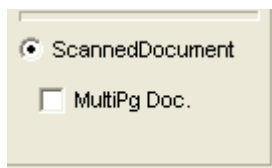
Or the other alternative is to choose the same Option, Next to the Capture Button in the Capture Window.
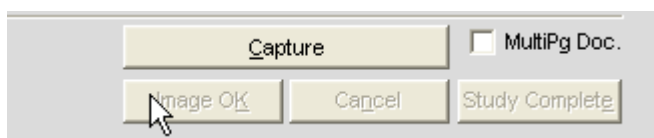
Scanning Documents as a Group (Study)

- Verify that the document to be scanned matches the current patient shown in the Capture window.
- Verify that "Study" is shown in the capture window configuration settings bar.

  Sa<u>v</u>ing: **Study** Document will be saved as part of a group of images.

- Place the document you want to scan into the scanner's feeder or onto the flatbed.
- If the document is made up of several pages, and if you are using a scanner equipped with a document feeder, verify that is checked. This will allow you to scan all pages in the document into a single file.
- Click **Capture** [Capture] or press ALT+C to begin scanning. If the TWAIN window opens, you can accept the current scanning parameters by clicking Scan, or you can alter the settings (such as page size), and then click Scan. Once Image is scanned, and checked for quality, click the Annotations button if you want to add annotations. To finish scanning, click the **Image OK** button [Image OK]. A confirmation window is displayed as shown below. Verify all information displayed is correct and click **OK** to accept scanned image.

  > **Confirm**
  >
  > ? Saving... 1st Image
  > Study Group : CLIN
  > Image desc : CONSULT
  > Image bits/pixel : 24 bit
  > saving as ImageType : Full Color JPG
  >
  > [OK]   [Cancel]

.
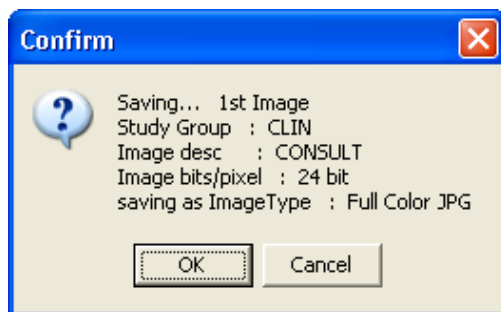
- Repeat above steps for each document in the group.
- When you are finished scanning all the documents in the group click the Study Complete [Study Complete] button. The Study Group Complete window will open.

  > **Study Group is Complete**
  >
  > Study Group: "CLIN"
  > Patient : "PATIENT,ONEONESEVENTHREE"
  > Image Count: 1
  > CLOSE the Study Group ?
  >
  > Study Group Short description: (60 char max)
  > CONSULT
  >
  > Study Group Long description: ☐ word wrap
  >
  >
  > [✓ OK]   [✗ Cancel]   [? HelpBtn]
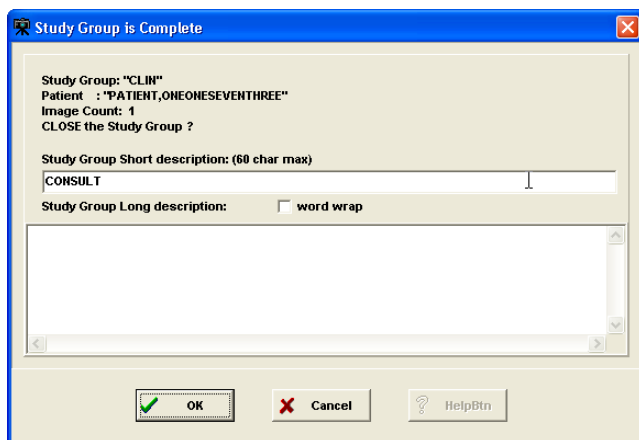
Check the default text in the Study Group Short Description box. If you need to add additional information, click the box and type additional information.
- Click OK to complete the study.

Image Quality
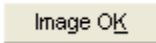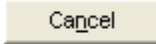
- When the scanned document is displayed on the right side of the Capture window, check the quality of the image.
- Use the scroll bars (not shown) and the Zoom slider to ensure all text is visible and legible. If needed, the DeSpeckle tool can be used to remove stray pixels (black dots) from the image, by clicking the DeSpeckle Button above the image captured
- Drag to zoom in/out Click to remove "noise"
- If the image is rotated or upside down, use the orientation buttons to correct the problem. If the image is slightly crooked, use the DeSkew button to straighten the image.
- Click the button to flip image vertically
- Click the button to flip image horizontally
- Click the button to rotate image left or counter-clockwise
- Click the button to rotate image right or clockwise.
- If the image is a multi-page document, use the paging controls to check each page. Correct any problems found.
- If the image is NOT acceptable, click or press ALT+L, then re-scan the image. If image quality is acceptable, click Cancel or press ALT+K.

Image Annotation

You can use annotations to make notes, comments, and callouts to transcribe inscriptions, add symbols, and highlight areas of interest. Annotations overlay an image (or document scanned as an image) without altering the image. Although annotations become part of the patient's medical record, they are saved separately from the image in the VistA database.

For example, you can draw an arrow or an ellipse over an area of interest, or you can supply measurements of length or angle, all during the capture process. You can annotate files with the following extensions: .bmp, .dcm, .jpg, .pdf (single page and multi-page), .tga, and .tif (single page). Although you can view images from the Department of Defense (DoD), you cannot annotate them.

You can add annotations before and after the Text Integration Utility (TIU) note is signed. Clinical Capture makes it easy for you to distinguish which annotations were made before and after the TIU note is signed by automatically changing their appearance for you. See *Annotating Images* for more information.

Annotation Permissions

Site administrators can use a set of parameters to set user permissions. These parameters provide the flexibility to grant and deny annotation permissions to individual users at the site, to all users of a particular service at that site, to an entire division associated with that site, or for all users at the site.

Users with the MAG ANNOTATE MGR key have the ability to add, edit, and delete annotations. This security key grants key holders full annotation access at the site at which they have the key to change and delete annotations. This key is intended to support quality assurance checking. Changes made to any annotation will have the identification of the key holder kept with the annotation for audit purposes.

Annotating Images

Annotate images during the image capture process, but before you save the image.
To open the Annotation toolbar and place the image in the Annotation Mode, click the

Annotations ✎ **button.**

The toolbar message area displays the text: **Annotation Mode**. For information about the tools in the Annotation toolbar, see *Annotation Tools*.

Annotations you make to an image associated with a Text Integration Utility (TIU) note before the note is signed are visually different from annotations made after the note is signed. Annotations you make before the note is signed have solid lines and normal text (as demonstrated in the left image). Annotations you make after the note is signed have dashed lines and underlined text (as demonstrated in the right image).
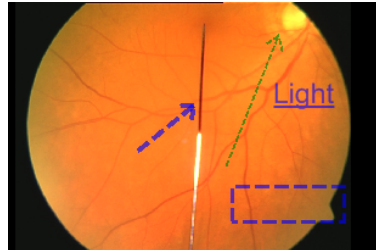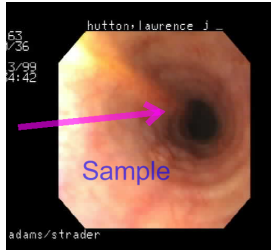
Annotation Tools

When you open the **Annotation** toolbar, the annotation tools become available. The following table defines the **Annotation** toolbar buttons.

�	Select Annotation button
╲	Line button
ៗ	Freehand button
▭	Rectangle button
ab	Text button
◯	Ellipse button
↖	Arrow button
✐	Highlighter button
▥	Ruler button
⌐	Protractor button
✖	Annotation Property Editor button
✿	Global Annotation Attributes button
◢	Delete Annotations button
✖	Exit Annotation Mode button

Drawing Lines

Use the **Line** ╲ button to draw lines on an image.

To draw a line:

1. Click the **Line** ╲ button.

2. Click and drag the mouse to draw the line on the image.

3. Release the mouse button.

The **Select Annotation** ⬚ button becomes active again.

Making Freehand Drawings

Use the **Freehand** ⟨ button to hand draw annotations, such as curved lines, or shapes not possible with the rectangle or ellipse. Using the freehand properties dialog box, you can also allow the annotation tool to draw a line from the beginning to the end of the freehand drawing to produce a closed path (see *Setting Freehand Line Properties*). You can modify the shape of the drawing before you save the annotation.

To make a freehand drawing:

1. Click the **Freehand** ⟨ button.

2. Click and drag the mouse to make the drawing.

3. Release the mouse button.

   The **Select Annotation** ⬚ button becomes active again.

4. To make changes to the shape of the freehand drawing, click to select the freehand drawing. Image handles appear all along the drawing.

5. Grab image handles to move them as needed.

Drawing Rectangles

Use the **Rectangle** ⬚ button to draw a clear rectangle on the image (the **Highlighter** button draws a filled rectangle on the image).

To draw a rectangle:

1. Click the **Rectangle** ⬚ button.

2. Click and drag the rectangle on the image to the desired height and width.

3. Release the mouse button.

   The **Select Annotation** ⬚ button becomes active again.
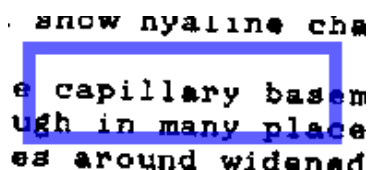
Adding Text to Images

Use the **Text** ᵃᵇ button to add text on the image. After you have entered the text, but before you have saved your changes, you can change the size or color of the font (see *Setting Text Properties*). If you need to edit the text after you have left the text box, use the **Text** tab of the Text Properties dialog box (see *Editing Text*).

If you have difficulty seeing the text you add to images because the images are high resolution, you can magnify the area to be annotated after the image is in Annotation Mode or you can set the global text annotation to a larger font (default is **36** point). For lower resolution images, a smaller font can be specified. For information on changing a single instance, see *Setting Text Font Styles and Sizes*. If the majority of the images you work with are low resolution, you may want to set a lower default setting for all annotations (see *Setting Global Annotation Font Attributes*). For information on using the image magnification the zoom tools, see *Image Manipulation Buttons* in the *Completing Capture* chapter of this user manual.

To enter text:

1. Click the **Text** ᵃᵇ button.

2. Click and drag the text box on the image to the desired height and width. If you do not drag the text box, you cannot see the text until you finish typing and click outside of the text box.

3. Release the mouse button.

   The **Select Annotation** ⌖ button becomes active again, but the cursor is blinking in the text box waiting for you to enter text.
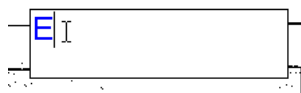
4. If you click outside of the text box without entering text, Clinical Capture automatically inserts the following text in the textbox: **Enter Text Here** (see *Editing Text* for more information).

   Note: The following characters are illegal: **& < >**.

5. To enter text in the text box, start typing text in the text box. If you enter any illegal characters, you will not be able to close the text box until you delete them.
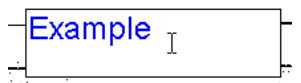
6. To edit the text after you have left the text box, see *Editing Text*.

7. When you are finished typing text, click anywhere outside of the text box to close the text box.

Drawing Ellipses

Use the **Ellipse** ⬭ button to draw an ellipse on the image.

To draw an ellipse:

1. Click the **Ellipse** ⬭ button.

2. Click and drag the ellipse on the image to the desired height and width.

3. Release the mouse button.

    The **Select Annotation** button becomes active again.
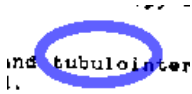
Drawing Arrows (new)

Use the **Arrow** ↖ button to draw an arrow on the image.

To draw an arrow:

1. Click the **Arrow** ↖ button.

2. Click and drag the mouse to draw the line for the arrow.

3. Release the mouse button.

After you release the mouse, Clinical Capture automatically inserts the arrow head where you release the mouse. The **Select Annotation** button becomes active again.

Highlighting Areas

Use the **Highlighter** button to highlight an area on an image.

To draw a highlight:

1. Click the **Highlighter** button.

2. Click and drag the mouse to make the highlight fit the area to be highlighted.

3. Release the mouse button.

    The **Select Annotation** button becomes active again.
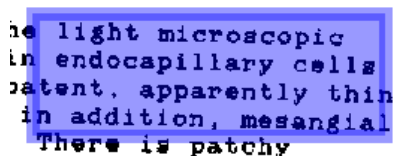
Using the Ruler

Use the **Ruler** ▦ button to measure features in the image. You can use rulers to measure absolute and relative distances on an image.

To draw a ruler:

1. Click the **Ruler** ▦ button.

   The **Ruler** menu opens.
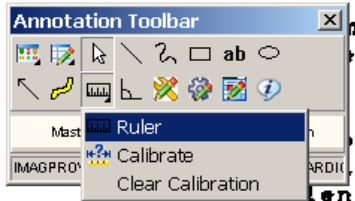
2. In the **Ruler** menu, click **Ruler** ▦.

3. Click the image and hold the left mouse button down to start measuring.
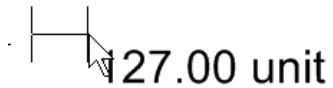
4. Drag the tool to define the end measuring point.

5. Release the mouse button.

   If this is the first time you have used a ruler during this session, the Calibrate Ruler dialog box opens.

Calibrating Rulers

The Calibrate Ruler dialog box opens the first time you use a ruler during a capture session. You can calibrate rulers against absolute or relative measurements. For an absolute measurement, calibrate the ruler against a known reference point located somewhere in the image and use standard measurement units. To measure relative distances, calculate ratios on the image, and select a relative unit of measurement.

The first time the Calibrate Ruler dialog box opens, you can click **Cancel** to keep the relative unit (calculated based on pixel location). When you draw another ruler after keeping the relative unit, the Calibrate Ruler dialog box opens again to allow you to calibrate an absolute measurement.

To calibrate the ruler**, do the following from the Calibrate Ruler dialog box:**

1. Select the unit of measurement from the **What is the measurement unit** drop-down list. Selections are: **Centimeter (cm)**, **Millimeter (mm)**, **inches (in)**, and **Relative (unit)**.

2. Enter the numeric measurement in the **What is the measurement** text boxes. Ensure the number corresponds to the selected measurement unit (such as cm, mm, in, unit).
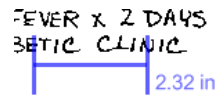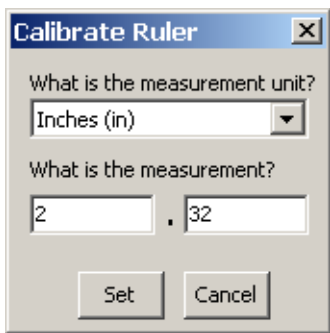
3. Do one of the following:

    - To set the calibration, click **Set**.

    - To cancel the calibration modification, click **Cancel**.

Measuring Angles in Images

Use the **Protractor** ⌐ button to measure angles in the image.

To add a protractor:

1. Click the ⌐ **Protractor** button.

2. Click the image to begin the first line segment.

3. Move the mouse to the area to where the first line segment is to end.

4. Click to set the vertex.

5. Drag to the area to where the second line segment is to end.

6. Click the image to end the second line segment.

7. Release the mouse.

96.52°
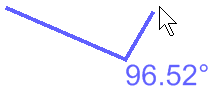
The **Select Annotation** becomes active again.

The value of the angle is displayed in degrees near the vertex.

Selecting Annotations

Use the **Select Annotation** button to select annotations.

To select one annotation with the Select Annotation button:

1. Click the **Select Annotation** button.

2. Click on the annotation.

To select one or more annotations with the Select Annotation button:

1. Click the **Select Annotation** button.

2. Drag a marquee around the entire area of the annotations you are selecting.

Moving Selected Annotations

Use the **Select Annotation** button to move annotations.

To move a selected annotation:

1. Click to grab a selected annotation.

2. Drag the annotation to the new location.

3. Release the mouse button.

Resizing Annotations

Use the **Select Annotation** ⬚ button to resize annotations.

To resize a selected annotation:

1. Click to grab a selection border or the image selection handle for an annotation.

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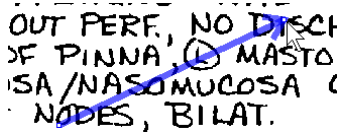
2. Drag the annotation to the new size.

3. Release the mouse.

Deleting Annotations

You can either delete selected annotations or delete all annotations.

To delete selected annotations:

1. Use the **Select Annotation** ⬚ button to select one, some, or all annotations to delete.

2. Click the ⬚ **Delete Annotations** button to open the **Delete** menu.
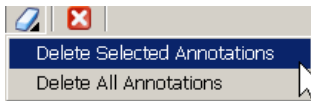
3. Click **Delete Selected Annotations**.

   The Confirm delete dialog box opens.
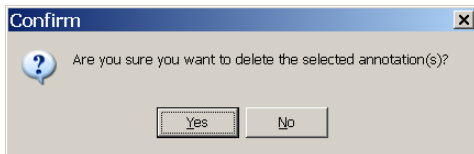
4. Do one of the following:

   • Click **Yes** to delete the selected annotations and close the Confirm delete dialog box.

   • Click **No** to cancel the deletion.

To delete all annotations:

1. Click **Delete All Annotations** from the **Delete Annotations** menu.

The Confirm delete dialog box opens.
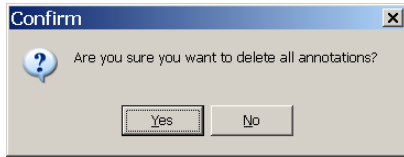
2. Do one of the following:

    *   Click **Yes** to delete the all annotations and close the Confirm delete dialog box.

    *   Click **No** to cancel the deletion.

Exiting Annotation Mode and Saving Annotations With the Image

Annotations overlay an image (or document scanned as an image) without altering the image. Although annotations become part of the patient's medical record, they are saved separately in the VistA database. The only way to save the annotations is to use either the **Capture** button or the **Image OK** button. For best results, enter the required image information (such as date, origin, type, specialty, procedure or event, and image description) before clicking the **Capture** button.

To capture the annotated image and save the annotation changes:

1. Click the **Capture** button in the Clinical Capture main window.

2. If you need to enter additional information about the image, a dialog box displays prompting you to add the information or correct any errors that may prevent the image from being saved. Click **OK** to close the dialog box and make the necessary corrections.

3. Then, click the **Image OK** button.

4. Click **OK** in the confirmation dialog box that displays.

To exit the Annotation Mode without saving your changes, click the Exit Annotation Mode button on the Annotation toolbar.

Using the Annotation Property Editor

You can use the **Annotation Property Editor** button to modify the properties of a selected annotation. The **Annotation Property Editor** button is available when you have only one annotation selected and you have not yet saved the annotation. When you change annotation properties using the property editor, the changes do not get applied to other annotations. For example, you can change the line color of the selected annotation to blue. However, the next time you draw an annotation, the line color will still be the same color as saved in your global annotation user settings. To change annotation properties for all future annotations, use the Global Annotation editor. For more information about setting global attributes, see *Setting Global Annotation Attributes*.

To change attributes of a selected annotation:

1. Select the annotation to be edited.

   Image Handles or selection borders appear on the annotation.
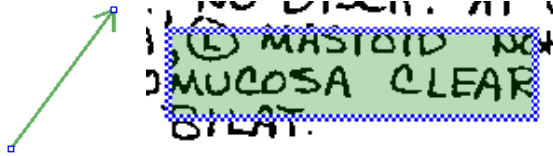
2. Click the Annotation Property Editor ⚒ button.

   The Property Editor dialog box applicable to the selected annotation opens. The Property Editor dialog box provides different tabs and settings, depending on the type of annotation being edited.

The following sections explain steps for each dialog box specific to the type of annotation. For example, to learn how to change the color of a rectangle, see *Setting Rectangle/Highlighter Color Properties*.

Setting Line/Arrow Properties

Use the Line/Arrow Property Editor dialog box to change properties related to lines and arrows. The Line/Arrow Property Editor dialog box has two tabs: Shape and Color.

Setting Line/Arrow Shape Properties

Use the Line/Arrow Property Editor **Shape** tab to modify line width, arrow head type, length of arrow head, and angle of the arrow head of the selected line or arrow. For a line annotation, the default setting for the **Arrow Head** drop-down text is: **None**. When the **Arrow Head** drop-down box is set to **None**, the **Length** and **Angle** text boxes are disabled.

To set the line or arrow properties for a selected line or arrow:

1. Click the **Annotation Property Editor** ⚒ button.

   The Line/Arrow Property Editor dialog box opens.
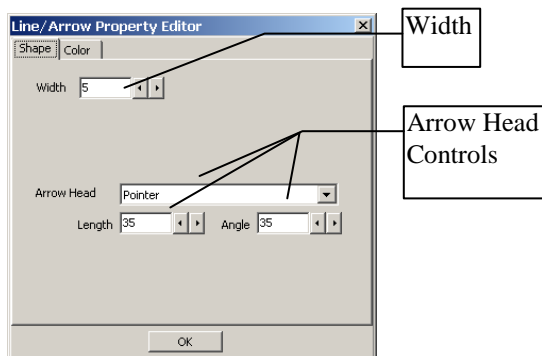
2. Use the decrease and increase arrows beside the **Width** text box to modify the width of the line for the selected line or arrow annotation. For a thicker line, use a higher number in the **Width** box.

    Note: If you have a line annotation selected, the **Arrow Head** drop-down box is automatically set to **None** and the **Length** and **Angle** text boxes are disabled.

3. To change a line to an arrow, select a pointer type from the **Arrow Head** drop-down menu.

4. To modify the arrow head for an arrow, click the **Arrow Head** drop-down menu to modify the arrow head type.

    - For a solid arrow, select   **Solid** in the drop-down box.

    - For an open arrow, select   **Open** in the drop-down box.

    - For a solid pointer, select   **Solid** pointer in the drop-down box.

5. To modify the arrow head length and angle, use the **Length** and **Angle** text boxes.

6. To make the arrow head longer or shorter, use the decrease and increase arrows beside the **Length** text box. The higher the number, the longer the arrow head.

7. To make the angle of the arrow head lesser or greater, use the decrease and increase arrows beside the **Angle** text box. The higher the number, greater the angle.

8. Do one of the following:

    - To save your changes and close the Line/Arrow Property Editor dialog box, click **OK**.

    - To close the Line/Arrow Property Editor dialog box without saving your changes, click the **Close** button.

Setting Line/Arrow Color Properties

Use the Line/Arrow Property Editor **Color** tab to select annotation color and opacity for the selected Line or Arrow annotation.

To set the line or arrow color or opacity properties of a selected line or arrow:

1. Click the **Color** tab from the Line/Arrow Property Editor dialog box.

   The Line/Arrow Property Editor **Color** tab opens.

2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

   The color selected is displayed in the **Color selected** field.

3. To adjust the opacity, move the indicator toward the **Min** or **Max**.

   - Moving the indicator toward the **Min** makes the annotation more transparent.

   - Moving the indicator toward the **Max** makes the annotation more opaque.

4. Do one of the following:

   - To save your changes and close the Line/Arrow Property Editor dialog box, click **OK**.

   - To close the Line/Arrow Property Editor dialog box without saving your changes, click the **Close** button.

Setting Freehand Properties

Use the Freehand Property Editor dialog box to adjust the width, color, and opacity of the freehand annotation. You can also allow the annotation tool to draw a line from the beginning to the end of the freehand drawing to produce a closed path.

Setting Freehand Line Properties

Use the Freehand Property Editor **Shape** tab to adjust the width of the line for the freehand annotation.

To set the line properties for a selected freehand drawing:

1. Click the freehand drawing to select it.

2. Click the **Annotation Property Editor** ✖ button.

   The Freehand Property Editor dialog box opens.
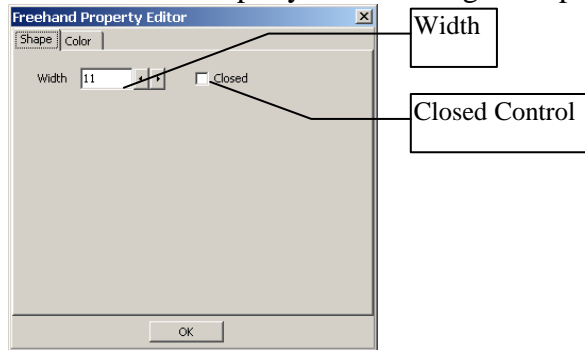
3. To modify the line width, use the decrease and increase arrows beside the **Width** text box. The higher number, the greater the width of the line of the freehand drawing.

4. To produce a closed path for a freehand annotation, click the **Closed** check box.

5. Do one of the following:

   - To save your changes and close the Freehand Property Editor dialog box, click **OK.**

   - To close the Freehand Property Editor dialog box without saving your changes, click the **Close** button.

Setting Freehand Color Properties

Use the Freehand Property Editor **Color** tab to change the color and opacity of the selected freehand annotation.

To set the color or opacity properties for a selected freehand drawing:

1. Click the **Color** tab from the Freehand Property Editor dialog box.

   The Freehand Property Editor **Color** tab opens.

2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

   The color selected is displayed in the **Color selected** field.

3. To adjust the opacity, move the indicator to the **Min** or **Max**.

   - Moving the indicator toward the **Min** makes the annotation more transparent.

   - Moving the indicator toward the **Max** makes the annotation more opaque.

4. Do one of the following:

   - Click **OK** to save your changes and close the Freehand Property Editor dialog box.

   - To close the Freehand Property Editor dialog box without saving your changes, click the **Close** button.

Setting Rectangle/Highlighter Properties

Use the Rectangle/Highlighter Property editor to modify the width, color, and opacity of the selected rectangle or highlight. Rectangles and highlights can both be modified by the editor. A rectangle is not usually filled, but you can change the fill property. A highlight is usually filled and it usually has a low opacity setting to allow you to see through the annotation to the image beneath the highlighted area.

Setting Rectangle/Highlighter Shape Properties

Use the Rectangle/Highlighter Property Editor **Shape** tab to modify the width of the line used to outline the rectangle or highlight.

To set the line width for a selected rectangle or highlight:

1. Click the rectangle or highlight to select it.

2. Click the **Annotation Property Editor** ✖ button.

   The Rectangle/Highlighter Property Editor dialog box opens.
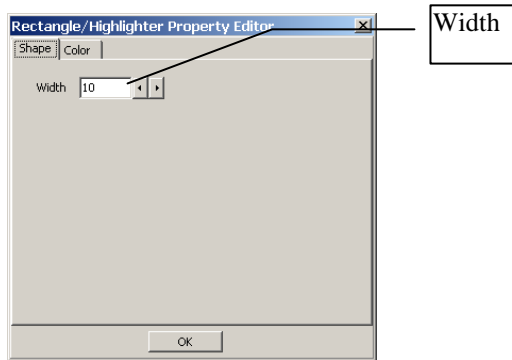
3. Use the decrease and increase arrows beside the **Width** text box to modify the line width. The higher number, the greater the width.

4. Do one of the following:

   - To save your changes and close the Rectangle/Highlighter Property Editor dialog box, click **OK**.

   - To close the Rectangle/Highlighter Property Editor dialog box without saving your changes, click the **Close** button.

Setting Rectangle/Highlighter Color Properties

Use the Rectangle/Highlighter Property Editor **Color** to modify the color, fill, and opacity of the selected rectangle or highlight.

To set the color and opacity properties of a selected rectangle or highlight:

1. Click the **Color** tab from the Rectangle/Highlighter Property Editor dialog box.

    The Rectangle/Highlighter Property Editor **Color** tab opens.
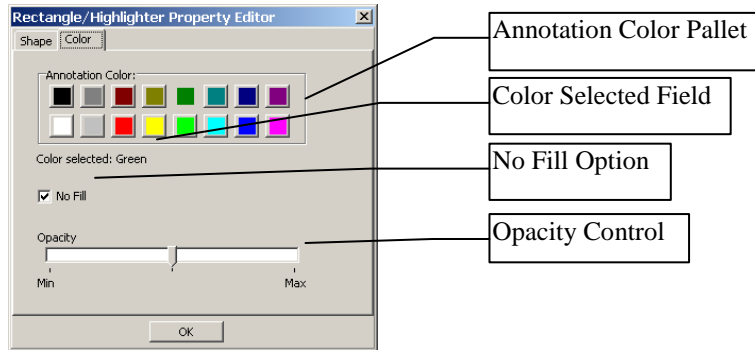
    Annotation Color Pallet

    Color Selected Field

    No Fill Option

    Opacity Control

2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

    The color selected is displayed in the **Color selected** field.
    By default, the **No Fill** check box is selected for a rectangle and the **No Fill** check box is not selected for a highlight.

3. To fill in a rectangle, clear the **No Fill** check box.

4. To clear the fill in a highlight, click the **No Fill** check box.

5. To adjust the opacity, move the indicator toward the **Min** or **Max**.

    *   Moving the indicator toward the **Min** makes the annotation more transparent.

    *   Moving the indicator toward the **Max** makes the annotation more opaque.

6. Do one of the following:

    *   To save your changes and close the Rectangle/Highlighter Property Editor dialog box, click **OK**.

    *   To close the Rectangle/Highlighter Property Editor dialog box without saving your changes, click the **Close** button.

Setting Text Properties

Use the Text Property Editor dialog box to modify font style and size, text, and color of the selected text. Only one font is allowed to keep the style of text annotations consistent across the VistA database.

Setting Text Font Styles and Sizes

Use the Text Property Editor **Font** tab to adjust font settings, such as style and size. Only one font is allowed to keep the style of text annotations consistent across the VistA database. The default text size is **36**.

To set the font style and size of selected text:

1. Click the text to select it.

2. Click the **Annotation Property Editor** ✖ button.

    The Text Property Editor dialog box opens.
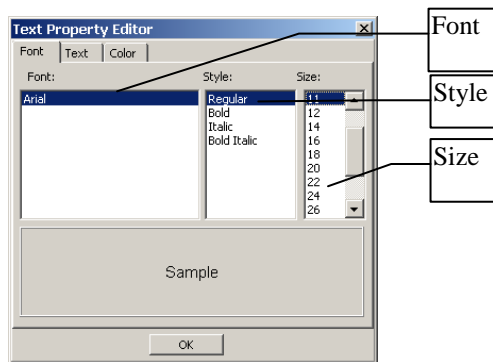
3. To select a style, click a style type from the **Style** list. Choices are: **Regular**, **Bold**, **Italic**, and **Bold Italic**.

4. To select a font size, click a font size from the **Size** list. Choices are: **11**, **12**, **14**, **16**, **18**, **20**, **22**, **24**, **26**, **28**, **36**, **48**, and **72**.

5. Do one of the following:

    *   To save your changes and close the Text Property Editor dialog box, click **OK**.

    *   To close the Text Property Editor dialog box without saving your changes, click the **Close** button.

Editing Text

Use the Text Property Editor **Text** tab to edit text after you have left the text box. The Text Property Editor **Text** tab also provides tools for entering text in the text annotation area. For example, select the **Word Wrap** check box to wrap the text in the text annotation area for ease of use while entering the text. The word wrap and alignment settings do not change the appearance of the text on the image.

To modify the selected text:

1. Click the **Text** tab from the Text Property Editor dialog box.

   The Text Property Editor **Text** tab opens.
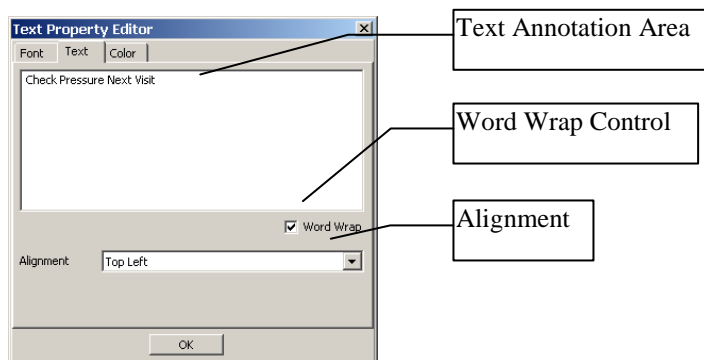
   Note: The following characters are illegal and not allowed: **& < >**

2. To edit the text, click in the text annotation area and begin typing. If you type any illegal characters, you will not be able to leave the text annotation area until you delete them.

   Note: The Word Wrap and Alignment options are only available for text in the Text Property Editor dialog box.

3. To force the text to wrap in the text annotation area of the **Text** tab, click the **Word Wrap** check box.

4. To change the alignment of the text in the text annotation area, click the **Alignment** drop-down menu.

5. Do one of the following:

   - To save your changes and close the Text Property Editor dialog box, click **OK**.

   - To close the Text Property Editor dialog box without saving your changes, click the **Close** button.

Setting Text Color Properties

Use the **Color** tab to modify the color and opacity of the text.

To set the color and opacity for the selected text:

1. Click the **Color** tab from the Text Property Editor dialog box.

   The Text Property Editor **Color** tab opens.
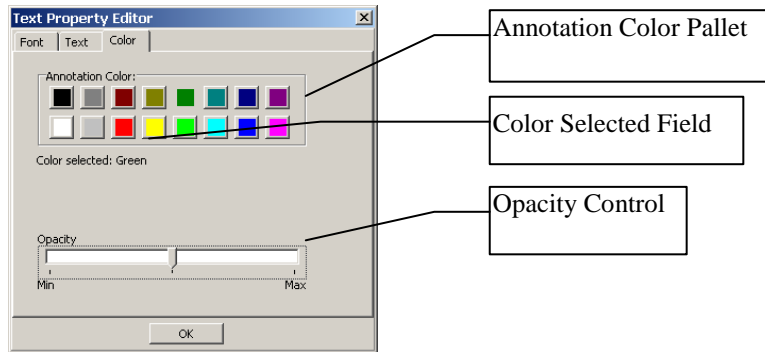
2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

   The color selected is displayed in the **Color selected** field.

3. To adjust the intensity, move the indicator to the **Min** or **Max**.

   - Moving the indicator to the **Min** makes the annotation more transparent.

     Note Text

   - Moving the indicator toward the **Max** makes the annotation more opaque.

     Note Text

4. Do one of the following:

   - To save your changes and close the Text Property Editor dialog box, click **OK**.

   - To close the Text Property Editor dialog box without saving your changes, click the **Close** button.

Setting Ellipse Properties

Use the Ellipse Property editor to modify the width, color, and opacity of the selected ellipse.

Setting Ellipse Shape Properties

Use the Ellipse Property Editor **Shape** tab to specify the width of the line for the ellipse.

To set the line properties of the selected ellipse:

1. Click the ellipse to select it.

2. Click the **Annotation Property Editor** button.

The Ellipse Property Editor dialog box opens.
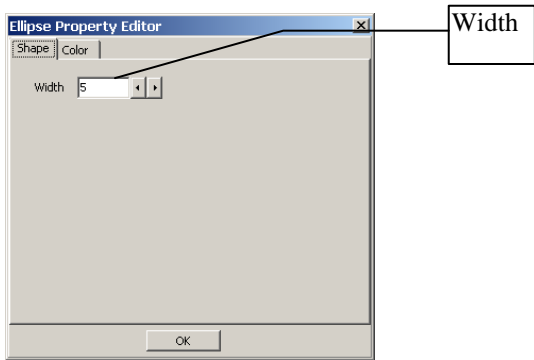
3. Use the decrease and increase arrows beside the **Width** text box to modify the line width. The higher number, the greater the width.

4. Do one of the following:

   - To save your changes and close the Ellipse Property Editor dialog box, click **OK**.

   - To close the Ellipse Property Editor dialog box without saving your changes, click the **Close** button.

Setting Ellipse Color Properties

Use the Ellipse Property Editor **Color** tab to modify the color and opacity of the ellipse.

To set the color and opacity of the selected ellipse:

1. Click the **Color** tab from the Ellipse Property Editor dialog box.

   The Ellipse Property Editor **Color** tab opens.
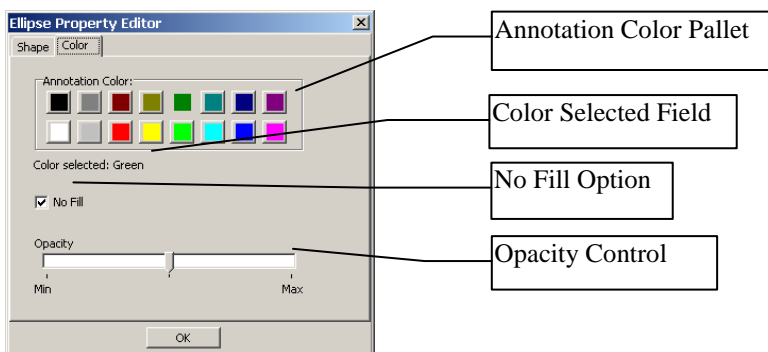
2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

   The color selected is displayed in the **Color selected** field.
   By default, the **No Fill** check box is selected for an ellipse.

3. To fill in an ellipse, clear the **No** Fill check box.

4. To clear the fill in an ellipse, click the **No Fill** check box.

5. To adjust the opacity, move the indicator to the **Min** or **Max**.

   - Moving the indicator to the **Min** makes the annotation more transparent.
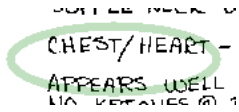
   - Moving the indicator toward the **Max** makes the annotation more opaque.
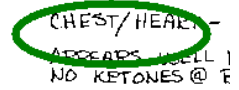
6. Do one of the following:

   - To save your changes and close the Ellipse Property Editor dialog box, click **OK**.

   - To close the Ellipse Property Editor dialog box without saving your changes, click the **Close** button.

Setting Ruler Properties

You can select the color and width properties for rulers using the Ruler Properties dialog box.

Setting Ruler Font Styles and Sizes

Use the Ruler Property Editor **Font** tab to adjust font settings for the text associated with the ruler. Font settings include style and size.

To set the font style and size of the text for a selected ruler:

1. Click the ruler to select it.

2. Click the **Annotation Property Editor** 🛠 button.

   The Ruler Property Editor dialog box opens.
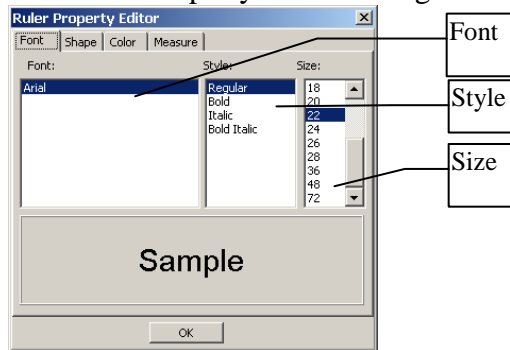
3. To select a style, click a style type from the **Style** list. Choices are: **Regular**, **Bold**, **Italic**, and **Bold Italic**.

4. To select a size, click a font size from the **Size** list. Choices are: **11**, **12**, **14**, **16**, **18**, **20**, **22**, **24**, **26**, **28**, **36**, **48**, and **72**.

5. To modify the starting and ending line lengths, click the **Measure** tab (see *Modifying Start Line Length and End Line Length*).

6. Do one of the following:

   - To save your changes and close the Ruler Property Editor dialog box, click **OK**.

   - To close the Ruler Property Editor dialog box without saving your changes, click the **Close** button.

Setting the Ruler Shape Properties

Use the Ruler Editor **Shape** tab to specify the width of the line for the ruler.

To set the line properties of the selected ruler:

1. Click the **Shape** tab from the Ruler Property Editor dialog box.
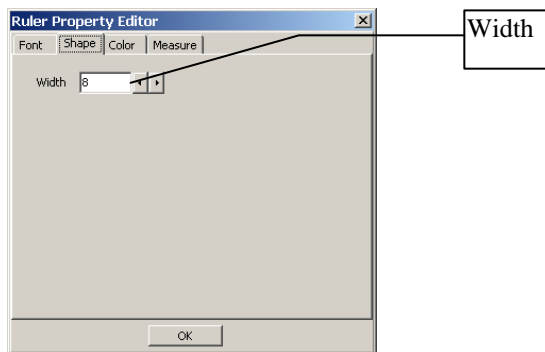
   The Ruler Property Editor **Shape** tab opens.

2. Use the decrease and increase arrows beside the **Width** text box to modify the line width. The higher number, the greater the width. As the line with grows, the endpoints remain in place.

3. Do one of the following:

   - To save your changes and close the Ruler Property Editor dialog box, click **OK**.

   - To close the Ruler Property Editor dialog box without saving your changes, click the **Close** button.

Setting Ruler Color Properties

Use the Ruler Property Editor **Color** tab to modify the color and opacity of the ruler.

To set the color and opacity properties of the selected ruler:

1. Click the **Color** tab from the Ruler Property Editor dialog box.

   The Ruler Property Editor **Color** tab opens.
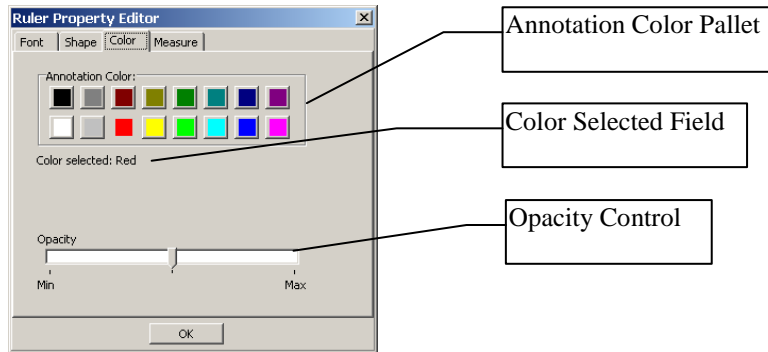
2. To select a color for the ruler, click a color on the **Annotation Color** pallet.

   The color selected is displayed in the **Color selected** field.

3. To adjust the intensity, move the indicator to the **Min** or **Max**.

   - Moving the indicator toward the **Min** makes the ruler more transparent.

   - Moving the indicator toward the **Max** makes the ruler more opaque.

4. Do one of the following:

   - To save your changes and close the Ruler Property Editor dialog box, click **OK**.

   - To close the Ruler Property Editor dialog box without saving your changes, click the **Close** button.

Modifying Start Line Length and End Line Length

You can modify the length of the start and end line for the ruler.

To modify the length of the start and end line of the selected ruler:

1. Click the **Measure** tab from the Ruler Property Editor dialog box.

   The Ruler Property Editor dialog box opens.
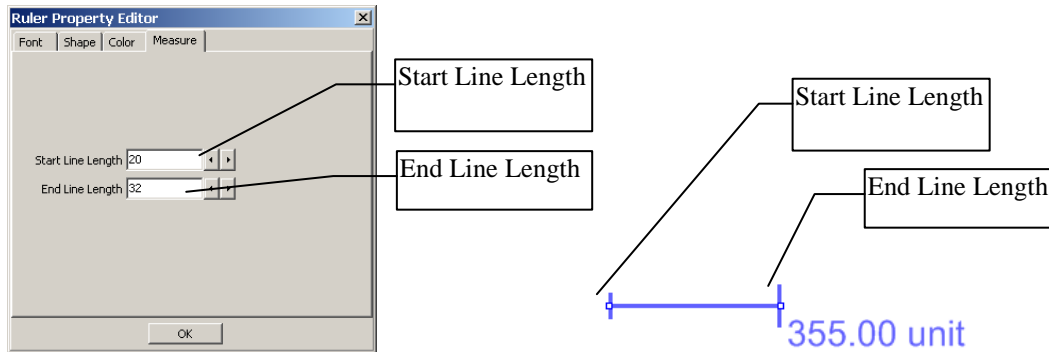
2. Enter a line length or use the decrease and increase arrows beside the **Start Line Length** text box to modify the start line length. The greater the number, the longer the line starting the ruler. As shown above, the start line length is shorter than the end line length.

3. Use the decrease and increase arrows beside the **End Line Length** text box to modify the end line length. The greater the number, the longer the line ending the ruler.

4. Do one of the following:

   - To save your changes and close the Ruler Property Editor dialog box, click **OK**.

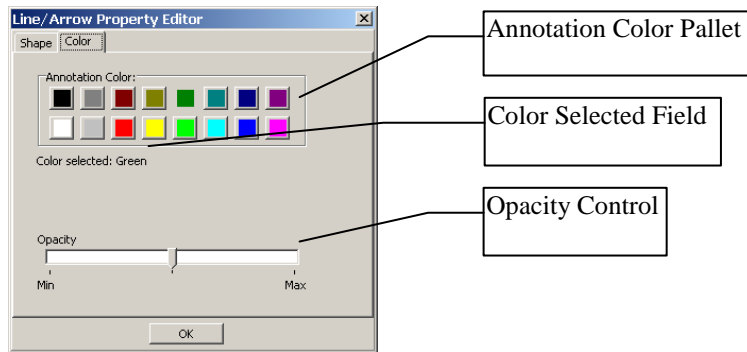   - To close the Ruler Property Editor dialog box without saving your changes, click the **Close** button.

Setting Protractor Properties

Use the Protractor Property Editor tool to modify font, line width, and color of the selected protractor annotation.

Setting Protractor Font Styles and Sizes

Use the Protractor Property Editor **Font** tab to adjust font settings for the text associated with the protractor tool. Font settings include style and size. To keep the style of text annotations consistent across the VistA database, only one font is allowed.

To set the font style and size for the selected protractor:

1. Click the protractor to select it.

2. Click the **Annotation Property Editor** ⚒ button.

The Protractor Property Editor dialog box opens.
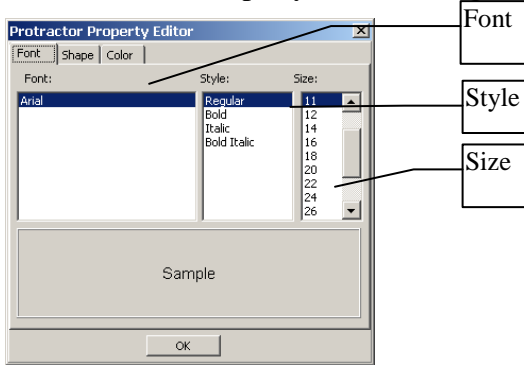
3. To select a style, click a style type from the **Style** list. Choices are: **Regular**, **Bold**, **Italic**, and **Bold Italic**.

4. To select a size, click a font size from the **Size** list. Choices are: **11**, **12**, **14**, **16**, **18**, **20**, **22**, **24**, **26**, **28**, **36**, **48**, and **72**.

5. Do one of the following:

   - Click **OK** to save your changes and close the Protractor Property Editor dialog box.

   - To close the Protractor Property Editor dialog box without saving your changes, click the **Close** button.

Setting the Protractor Shape Properties

Use the Protractor Editor **Shape** tab to specify the width of the line for the protractor.

To set the line property of the selected protractor:

1. Click the **Shape** tab from the Protractor Property Editor dialog box.

   The Protractor Property Editor **Shape** tab opens.

2. Use the decrease and increase arrows beside the **Line Size** text box to modify the line width. The higher number, the greater the width.

3. Do one of the following:

- To save your changes and close the Protractor Property Editor dialog box click **OK**.

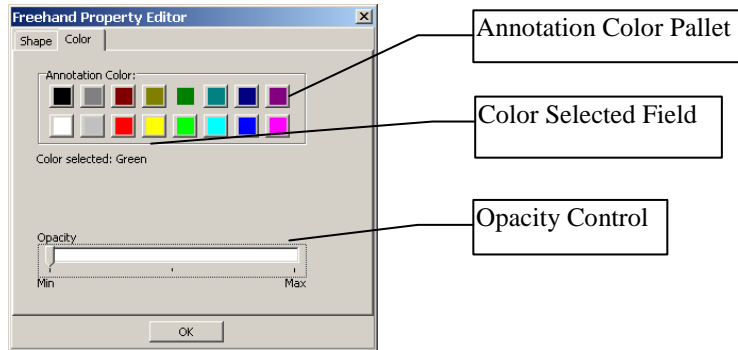- To close the Protractor Property Editor dialog box without saving your changes, click the **Close** button.

Setting Protractor Color Properties

Use the Protractor Property Editor **Color** tab to change the color and opacity of the selected Protractor annotation.

To set the color and opacity properties of the selected protractor:

1. Click the **Color** tab from the Protractor Property Editor dialog box.

    The Protractor Property Editor **Color** tab opens.
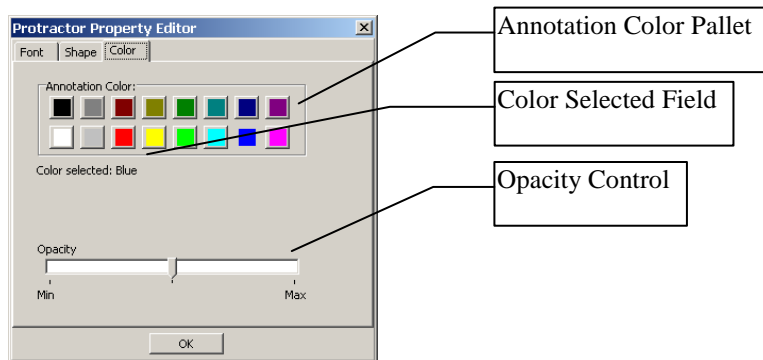
2. To select a color for the protractor line and text, click a color on the **Annotation Color** pallet.
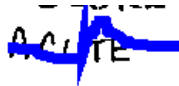
    The color selected is displayed in the **Color selected** field.

3. To adjust the opacity, move the indicator to the **Min** or **Max**.

- Moving the indicator to the **Min** makes the annotation more transparent.

- Moving the indicator toward the **Max** makes the annotation more opaque.

4. Do one of the following:

- To save your changes and close the Protractor Property Editor dialog box, click **OK**.

- To close the Protractor Property Editor dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Attributes

You can use the **Global Annotation Attributes** 🧩 button or **Annotation Settings** from the **Options** menu to change annotation attribute settings for future annotations. These changes do not change any pre-existing annotations. After you set global annotation attributes, you can still manually change the attributes individually by using the **Property Editor** 🛠 button. See *Changing Selected Annotation Attributes* for more information.

Because the global annotation attribute user preferences are stored in your user settings, the values for Clinical Capture and Clinical Display and stored separately and can be different. For example, you may decide to set the color of the lines drawn by tools in Clinical Capture to blue and in Clinical Display to red. Thus, you can distinguish your annotations made during the capture process from your annotations made during display.

Default Values for Annotations

The following table displays default values for annotations at initial installation. These values are initially set the same in Capture and Display.

Attributes	Default Value
Annotation Font Name	Arial
Annotation Font Style	Regular
Annotation Font Size	36
Annotation Line Width	5
Annotation Color	Green
Annotation Opacity	159
Annotation Arrow Style	Pointer
Annotation Arrow Length	35
Annotation Arrow Angle	35

Setting Global Annotation Attributes from the Options Menu

To use the **Options** menu to set global annotation attributes, select **Annotation Settings** from the menu.
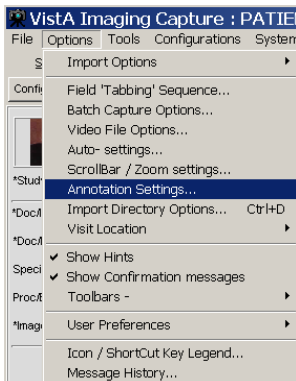
The Global Annotation Attributes dialog box opens.

Setting Global Annotation Font Attributes

The Global Annotation Attributes **Font** tab is used to adjust font settings, such as style and size, for all new annotations. For example, you can choose to make all fonts bold and sized 14 points. Only one font is allowed to keep the style of text annotations consistent across the VistA database. The default font is **Arial**. The default style is **regular**, and the default size is **36** points. If most of your images are low resolution, you may find it helpful to change the default font size to a smaller font. However, if your images are mostly high resolution, a larger font is recommended. For information on changing font sizes for only the current annotation, see *Setting Text Font Styles and Sizes*.

To set global annotation font attributes, do the following:

1. Click the **Global Annotation Attributes** 🏵 button or the **Annotation** tab from the User Preference dialog box.

   The Global Annotation Attributes dialog box opens.
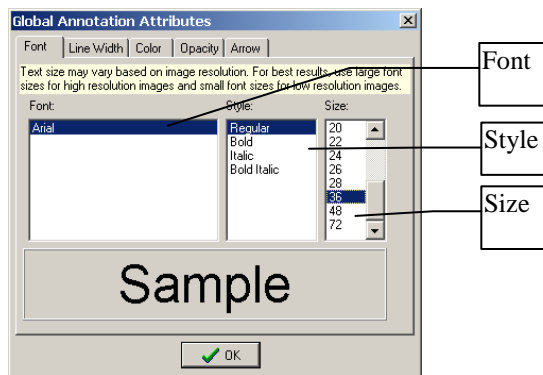
2. To select a font style, click a style type from the **Style** list. Choices are: **Regular**, **Bold**, **Italic**, and **Bold Italic**.

3. To select a font size, click a font size in the **Size** list. Choices are: **11**, **12**, **14**, **16**, **18**, **20**, **22**, **24**, **26**, **28**, **36**, **48**, and **72**.

4. Do one of the following:

   - To save your changes and close the Global Annotation Attributes dialog box, click **OK.**

   - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Line Width Attributes

Use the Global Annotation Attributes **Line Width** tab to modify the width of lines for lines, rectangles, highlights, ellipses, and arrows. The default line width is **5**.

To set global annotation line width attributes, do the following:

1. Click the **Line Width** tab in the Global Annotation Attributes dialog box.

   The Global Annotation Attributes **Line Width** tab opens.
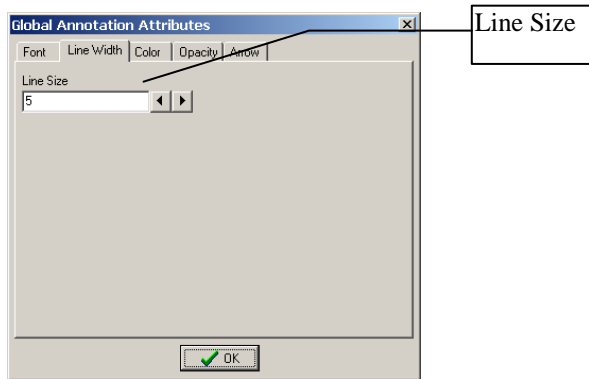
2. Use the decrease and increase arrows beside the **Line Size** text box to modify the line width. The higher number, the greater the width.
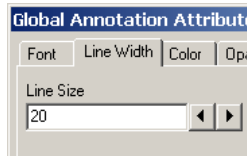
3. Do one of the following:

   - To save your changes and close the Global Annotation Attributes dialog box, click **OK**.

   - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Color Attributes

Use the Global Annotation Attributes **Color** tab to modify the default color of all annotations. The default color is **Green**.

To set global annotation color attributes, do the following:

1. Click the **Color** tab from the Global Annotation Attributes dialog box.
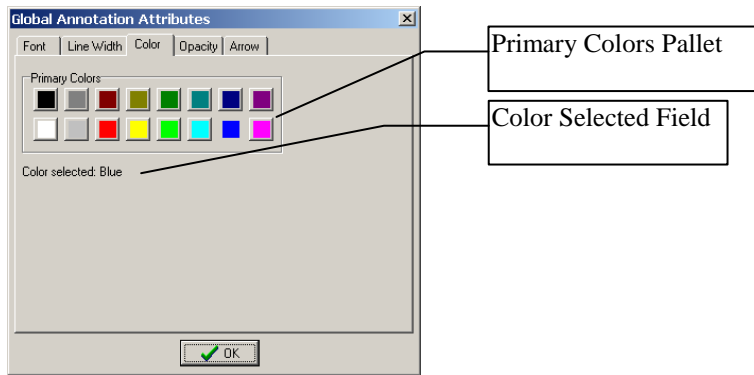
2. To select a color for your annotations, click a color on the **Primary Colors** pallet.

    The color selected is displayed in the **Color selected** field.

3. Do one of the following:

    *   To save your changes and close the Global Annotation Attributes dialog box click **OK**.

    *   To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Opacity Attributes

Use the Global Annotation Attributes **Opacity** tab to modify the opacity of the color of annotations. The higher the opacity level, the more opaque the color is for the annotation. The initial setting for opacity is **159**.

To set global annotation opacity attributes, do the following:

1. Click the **Opacity** tab in the Global Annotation Attributes dialog box.
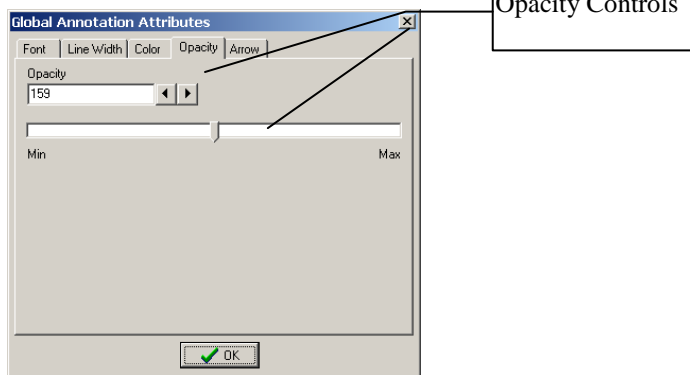
2. The opacity of annotations can be modified by either using the increase and decrease arrows beside the **Opacity** field or by dragging the indicator toward the **Min** or **Max**.

3. To use the arrows beside the **Opacity** field, click the increase or decrease arrows. The higher number, the more opaque the color of the annotation.

4. To use the indicator to adjust the opacity, move the indicator to the **Min** or **Max**.

   - Moving the indicator toward the **Min** makes the annotation more transparent.

     Note Text

   - Moving the indicator toward the **Max** makes the annotation more opaque.

     Note Text

5. Do one of the following:

   - To save your changes and close the Global Annotation Attributes dialog box, click **OK**.

   - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Arrow Attributes

Use the Global Annotation Attributes **Arrow** tab to modify arrow annotations.

To set global annotation arrow attributes, do the following:

1. Click the **Arrow** tab in the Global Annotation Attributes dialog box.
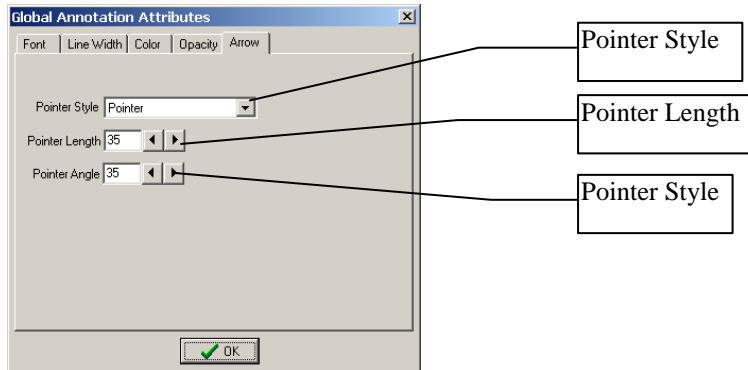
   You can modify the pointer style, length, and angle. The default arrow attributes are pointer for **Pointer Style**, 35 for **Pointer Length**, and 35 for **Pointer Angle**.

2. To modify the arrow head type, click **Pointer Style**.
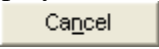
   - For a solid arrow, select ➤ **Solid** in the drop-down box.

   - For an open arrow, select ▷ **Open** in the drop-down box.

   - For a solid pointer, select ➤ **Solid** pointer in the drop-down box.

3. To make the arrow head longer or shorter, use the decrease and increase arrows beside the **Pointer Length** text box. The higher the number, the longer the arrow head.

4. To make the angle of the arrow head lesser or greater, use the decrease and increase arrows beside the **Pointer Angle** text box. The higher the number, greater the angle.

5. Do one of the following:

   - To save your changes and close the Global Annotation Attributes dialog box, click **OK**.

   - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Completing Capture

The VistA Imaging Capture Window can use a number of different capture mechanisms to acquire images:

- *Import File from Workstation*
- *Scan Document or Color Picture*
- *Meteor/Orion Imaging Boards*
- *Digital and Still Video Camera Input*

Once an Image has been captured, VistA Imaging will display the image in the Display area and enable the 'Image OK' [Image OK] and 'Cancel' [Cancel] buttons. The image manipulation buttons are also available if required.

If the captured image is not the correct image or not of good quality, click the 'Cancel' button to discard the image.

If the Image is correct and the quality is good, click the 'Image OK' [Image OK] button.

Scan Document or Color Picture

Requirement: All document scanning must be at a minimum of 300 x 300 dpi.

VistA Imaging can acquire images from TWAIN devices including:

- color scanners,
- document scanners,
- desktop scanners, and
- still/video cameras.

- If 'TWAIN Capture - Twain Window' is selected as the Input Source, another window will open when 'Capture' is clicked. This is the TWAIN Window for the TWAIN device. Each TWAIN Device has its own TWAIN Window and TWAIN Image Types.
- In the TWAIN Window, TWAIN image type and other image parameters need to be selected. Click on the prescan and/or scan buttons to perform the scan. The image will be passed to the Image Box of the VistA Imaging Capture Window for approval.

  Please see the device manual for image adjustments and other details.

Meteor/Orion Imaging Boards

Meteor/Orion boards installed in a workstation display live images.
When the Capture button is clicked on the VistA Imaging Capture main window, the VistA Imaging Capture window (**shown below**) will appear.
(1) A live image is displayed.
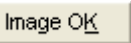
(2) To obtain a still image -- click the **Freeze** button
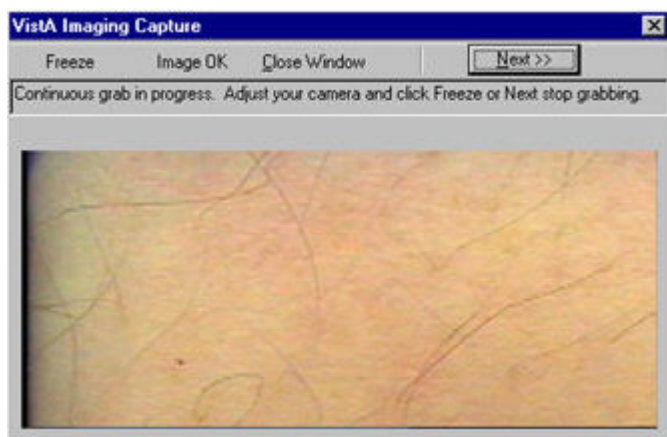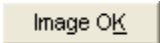
(3) Review the quality of the image,
- if **not** satisfactory, click the **Freeze** button again.
  The window will resume the display of live images.

- If the image is satisfactory, click the **Image OK** ⬚Image OK⬚ button.

(4) The VistA Imaging Capture main window will then move to the foreground, the "frozen" image will appear in the Display area of the main window.

(5) Prior to capture, Review all the patient information and the image,
- If not correct, click Cancel.

- If the image and data are correct, click the Image OK ⬚Image OK⬚ button to save them in the patient's record.

(6) If a **Study (Group)**, of several images, is being performed, click the **Capture** button to **return to the live image display window**.

Digital and Still Video Camera Input

Digital Camera

These cameras are used by staff in the:

- Wound Care Clinic
- Home Based Primary Care
- Dermatology Clinic
- OR
- Plastic Surgery
- Podiatry
- Outpatient Clinics
- Nursing Home / Administrative / Police office (for Patient Photo ID)

Most of the cameras can transfer their images by connecting to a PC that has a USB port.

- the camera is turned on in display mode
- the camera appears in the Windows Explorer as a 'removable' drive
- images can be copied to an 'import' folder on the PC hard drive
- to store the images in the patient record, select the import folder when running VistA Imaging Capture

Still Video Camera

If the input device is a still video camera (which records full motion video) with a TWAIN interface, it must be connected to the workstation. Consult the instructions for the camera to see if turning off the workstation is recommended before proceeding.

There are several kinds of interfaces:

- Images are recorded by the camera prior to being connected to the workstation.
- The camera operates in live mode, inputting images as they are captured.
- The camera provides a download mode (non-TWAIN) that places all images in a directory on the workstation.

Using the TWAIN Interface

1) Images are recorded by the camera prior to being connected to the workstation. When the 'Capture' button is clicked the camera will be started and a series of images will probably appear in the TWAIN window (depending on the software provided with the camera). Follow the instructions provided with the camera and select the image to be captured. The captured image will appear in the image box on the Capture window.

2) The camera operates in live mode, inputting images as they are captured. Follow the instructions provided with the camera. As images are captured and indicated acceptable, they will appear in the image box on the Capture window.

Using the Download Function
3) The camera provides a download mode (non-TWAIN) that places all images in a directory on the workstation. This method may be preferred because of its speed. In this case, follow the instructions with the camera. Be sure that the downloaded images are stored in a standard format such as JPEG, BMP, or TIF. Then use the VistA Imaging Import mode to import the images into VistA.

Validate Image Data

Imaging capture validates the Image data in the following ways:

Patient
User must have selected a patient

Procedure
User must have selected a procedure or a category

Doc/Image Date - Image Date
Usually entered by system. Taken from the associated procedure date. But if one of the three Patient Only associations (Clinical, Photo ID, Administrative) is selected, then the user has to enter the date. It is a standard FileMan Date/Time look up. i.e. 'T' 'T-1' etc are accepted input values.

Image File
User must have captured or imported an Image. It will be visible in the Image box on the Capture window.

Image Description
Must be entered by user. (User can accept the system default description)

Image Long Description
(Optional)

Display area

The Display Area has image manipulation buttons to modify the image before saving it. See *Image Manipulation Buttons* section for more information.

The Display area and its controls enable:

- viewing of images prior to capture, **and**
- review of images that have already been captured.
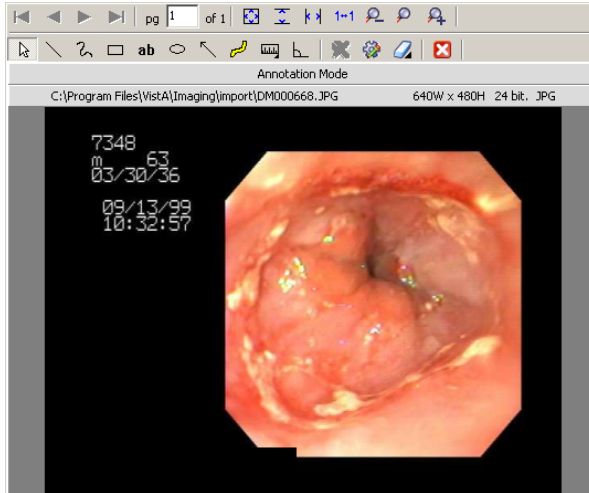
Prior to capture: Images are displayed for **medical and/or administrative review.** When the Capture button is clicked, a Confirmation window appears.
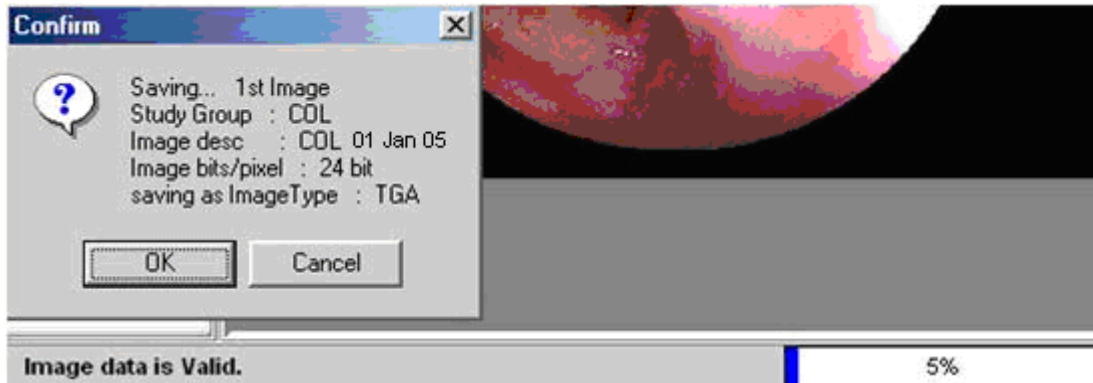
At the bottom of the VistA Imaging Capture window is a status bar.
(1) An internal check is done by the software to determine that the image and data are ready for the capture process

- the current status message is: "Image data is Valid"
- this is not a medical or administrative review

(2) The bottom right corner of the window has a progress meter -- currently showing 5%.

- this indicates that the initial step of the Capture process has begun

(3) The Confirm window displays information about the image currently shown in the Display area.

- Review the quality of the image and the data in the Confirm window.
- If the displayed image and data are accurate, then click the OK button to save the image to VistA

  - After the image capture is completed, check the status bar for any further messages.
  - If a Study (Group) is being captured, then continue the capture process.

- If the image and/or data are not satisfactory, then click the Cancel button to discard the image.

  - Correct the image and/or data information before resuming the Capture process.

The Image manipulation buttons can be used to modify the image before saving it.

The Display Area can also be used to **display** a patient's **previously captured images.** Select the menu option '*File | Latest patient Images*' and the 'Patient's latest Images window' will be opened. Selecting an item from the list will display the image in the image box.

While displaying patient images in this manner, the Capture, Image OK, and Study Complete buttons are disabled. Only the Cancel button is enabled. The 'Cancel' button must be clicked to enable Image Capture again.

The VistA Imaging Capture main window can also act as an **Image Browser** by selecting 'Import' as the 'Input source' and then scrolling through the Import directory file listing: As each image name is selected, it will be shown in the **Display area**.

"Actual Size" button   Scanned Document Controls
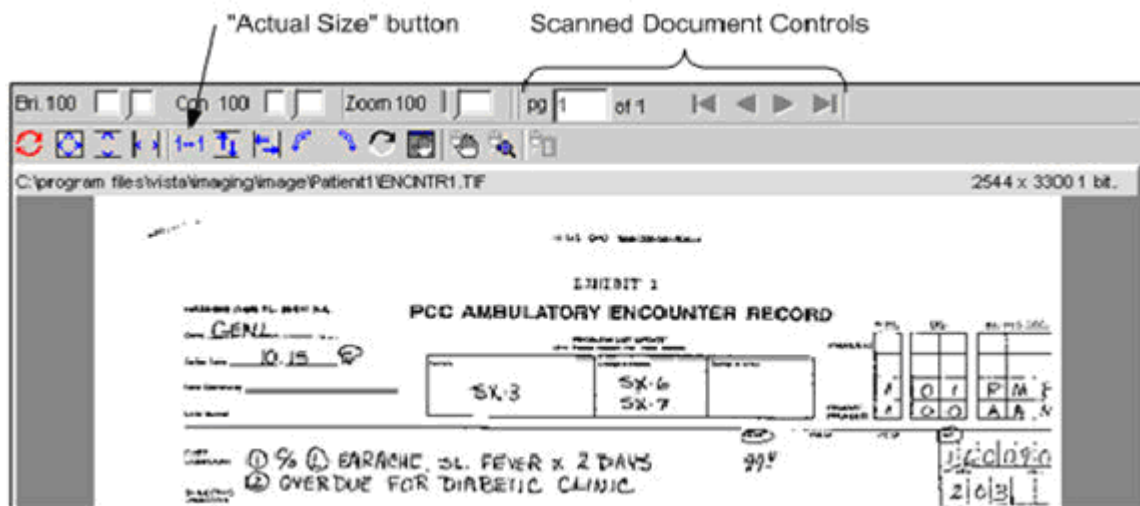
Image Manipulation Buttons
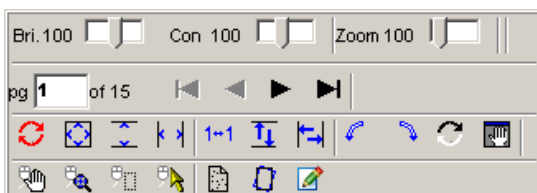
The right side of the window under the Tool Bar has the Image manipulation buttons and the image box.

When an image is captured, it is shown in the Display area.

Caution: Any changes made to the Image, except sizing operations, **will be saved** when 'Image OK' button is clicked.
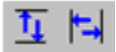
* Sizing operations include: Zooming, fit Width, fit Height and fit in Window.

Button descriptions:
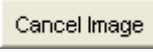
   Document control (paging is enabled for multi-page images).

	Reset the image To its original orientation, contrast and brightness. (This does not reload the image from disk, to do that during Import, simply click again on the image in the Import directory listing.)
	Fit the image - Into the Display area.
	Fit the image **height** **Fit** the image **width**

1↔1	Zoom image to actual size (1 pixel to 1 pixel)
�Ↄ ⊢→⌐	**Flip** image **vertically** **Flip** image **horizontally**
↶ ↷	**Rotate** image 90 degrees **to the left**, Rotate the image 90 degrees **to the right**
↺	**Invert all the colors** in an image. Each color is replaced by its color complement. For example, white becomes black, and red becomes blue.
🖐	Open a **Pan Window**. Use the mouse in the pan window to move the visible area of a zoomed Image
🖐	Position the mouse over the Image, and **drag (pan)** the visible area of a zoomed image
🔍	**Click** to turn **'magnifying glass' on or off**. When this tool is turned on, dragging the left mouse button over an image displays a portion of the image at a greater magnification.
⊡	**Zoom** in on **selected area**.

Warning Panel for Patient Change

Once a patient is selected using any of the above described methods and an image is displayed in the capture window, any change to the Patient selected will cause Clinical Capture to display a Warning Panel as shown below. The Warning Panel alerts that the Patient has changed since an image was loaded. At this point, there are two available options:

- "Continue" with the patient change using the Continue [Continue] button to keep the image displayed in the capture window so that it can be used for the newly selected patient.

- "Cancel Image" using Cancel Image [Cancel Image] button to clear the image displayed in the capture window
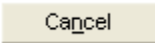
Approving the Image

When the image displayed in the image box is acceptable, click the 'Image OK' button

A confirmation window will open and display the Image information. Click 'OK' to approve or click 'Cancel' to discard the Image and Image data.
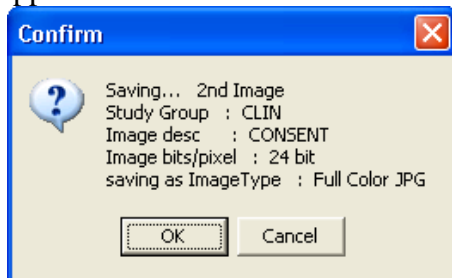
If there are more images for this procedure, use the Capture button again to capture them.

Note:
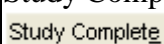
- When one of the data input fields has the input focus the 'Image OK' button is set as the 'window default button'. When <Enter> is pressed the window default button will be clicked.
- <TAB> doesn't have to be pressed repeatedly to get to the 'Image OK' button, simply press <Enter> while focus is on one of the input fields.
- Of course <TAB> can be pressed repeatedly to get to the 'Image OK' button, or click the 'Image OK' button with the mouse.

Image Function Buttons

These buttons are used during the capturing of a patient image.
(Click an area of graphic for help on specific buttons.)
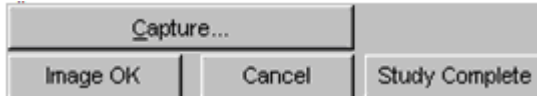
The 'Image function buttons' consist of:

Capture	Activates the Input device to Capture (Acquire) the image.
Image OK	Indicate approval of the captured image.
Cancel	Discard the captured image.
Study Complete	Indicates that all images have been captured for the Study.

The position of the buttons and their tabbing sequence can be changed by opening the 'Tabbing Sequence Window'

Batch Capture Transfer Buttons

Select the images in the list box that you want to place in the batch capture list (below the list box) and then click one of the following icons:

- To move selected images to the batch capture list

- To move all images to the batch capture list

Note: You can move all or selected images back to the list box by clicking either icon:

- To remove selected images from the batch capture list

- To remove all the images from the batch capture list

Batch Capture Options window

If Import has been selected as the Source the Batch Capture option will be available.

Batch capturing provides the capability of selecting multiple images from an import directory and have them all saved to an Image Group when 'Image OK' is clicked.

Clicking the check box ☑ Batch or selecting the 'Options|Batch Capture Options' menu option will open the 'Batch Capture Options' window.
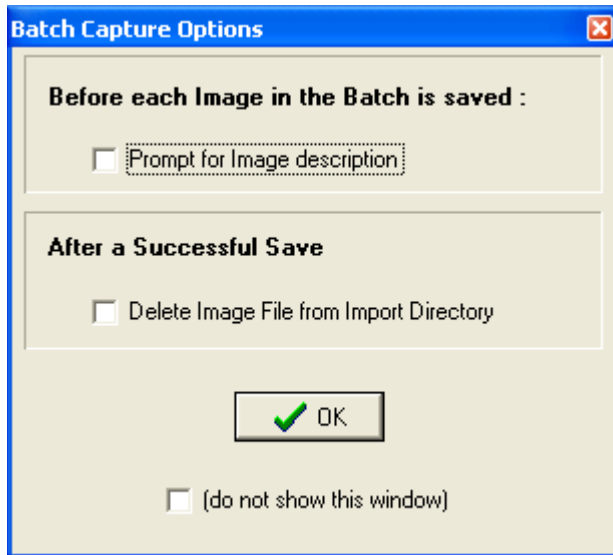
'Prompt for Image description' provides the opportunity to enter a different description for each image. If this is not checked, all images will have the same short description.

Note: When 'prompt for image description' is checked the 'Batch Capture image description' window will be displayed before each image is saved to the VistA Image File.

'Delete Image File from Import Directory' will delete the Image File from the workstation directory.

<u>Caution</u>: When the Delete Image File from Import Directory checkbox is checked, image files **WILL BE AUTOMATICALLY DELETED** from the import directory after they are captured. If the capture process was not successful, the image will no longer be available in the import directory. Therefore, it is recommended that after several single and/or groups of images are captured, you verify the capture by viewing the images using Imaging Display. Verify the first few images for each image capture device before this checkbox is checked. If the checkbox is unchecked, you can manually delete the images that are no longer needed..

If **'(do not show this window)'** is checked then the 'Batch Capture Options' window will not be displayed when the 'Batch' check box is checked from the main capture window.

Note: The 'Batch Capture Options' window can be displayed by selecting the '*Options|Batch* Capture Options' menu item.
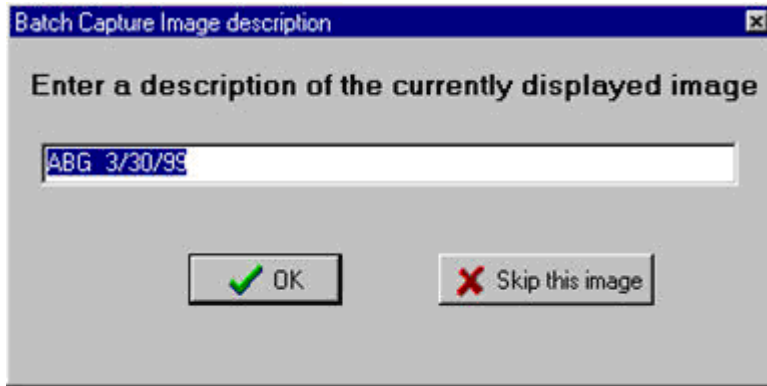
Change the description and **press <Enter>** or **click 'OK'** to save the current image and continue on to the next image.
If **'Skip this image'** is clicked, the current image will be discarded and processing will continue with the next image in the batch list.

Long Image Description

Entry of a long image description is optional. Type any description in the scroll box provided. Long image descriptions are displayed as the first paragraph of Image Reports.
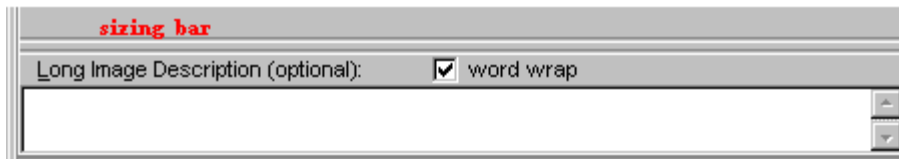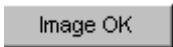
Note: The mouse can be used to 'drag' the 'Long Description' field and make it smaller/larger for easier input of data. Position the mouse over the sizing bar above the 'Long Description' text and when the mouse changes to the horizontal crossbeams click down with the left mouse button and move the cursor to a new position for the top of the long description field then release the mouse button.

- Word wrap can be turned on/off.
- Paragraph indents and formatting will be saved.
- right-click to display the shortcut edit menu. Available options are: Undo, Cut, Copy, Paste, Delete, Select All.

The Long Description field also has a minimum and maximum height and the system won't let the user size the field beyond them.
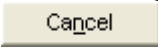
Confirmation Window

The 'Confirmation window' displays the Image data that is about to be saved to the patient record.

When [Image OK] is clicked, a validity check is performed on the input data If the input data is valid, then the Confirmation Window will display.
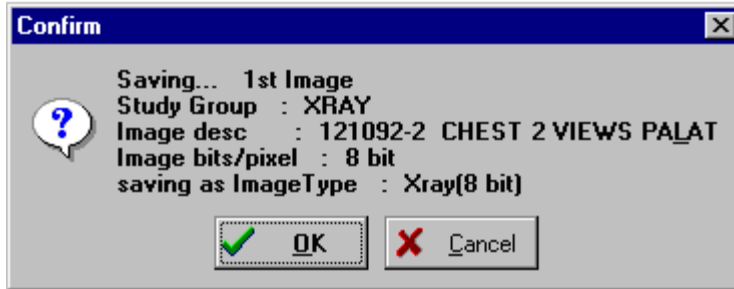
Click 'OK' to save the Image to the patient record

Click 'Cancel' [Cancel] to stop the process and return to the capture window.

Note: The Confirmation Window is only displayed if the menu option '*Options| Show Confirmation messages*' is checked.

Indicating Completion of a Study

When all images have been captured for a procedure, click the Study Complete button of the Capture Window. The progress indicator at the bottom of the window will display. A group of images will be created and associated with the patient's report.

Save Image Data to VistA

A new entry is made in the Image File.
- The entry consists of the image data along with a pointer to the procedure in the associated clinical package.
- A pointer to the Image File entry is entered in the procedure entry of the associated package.

If either of these two actions fails, or an error occurs, the image capture fails.

Fails

If the capturing of an Image Fails. The Imaging system will delete any entries made in the Image File and associated Package Files.
- o The user will have to fix whatever problem caused the failure.
- o The system manager should be called if required.

Importing Documents / Images

Import File from Workstation

In a number of cases, an image has been captured to a file on the local workstation. This is typical with commercially-available image capture systems. As long as these files are in a standard format, they can be imported into the VistA Imaging System. Even manufacturers who use a proprietary file format may offer an export function which will save another copy of the file in a standard format.

The standard VistA Capture Window can be used to import images from the local workstation drive.

To import images:

- First select the directory on the local system where the images to be imported are located (see the *Import Directory List* section below).
- Next select the image filename from the file list box on the capture window (see Select Image File to be imported).
- Then click the 'Capture' button.

Note: When importing files, the 'Batch Capture' option is available.

- In 'Batch Capture' mode, multiple image files can be captured and saved at one time.
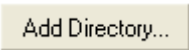
Import Directory List

VistA Imaging Capture is in 'Import Mode' when 'Import' has been selected as the input Source. In Import Mode, the directory of images to be imported must be selected.
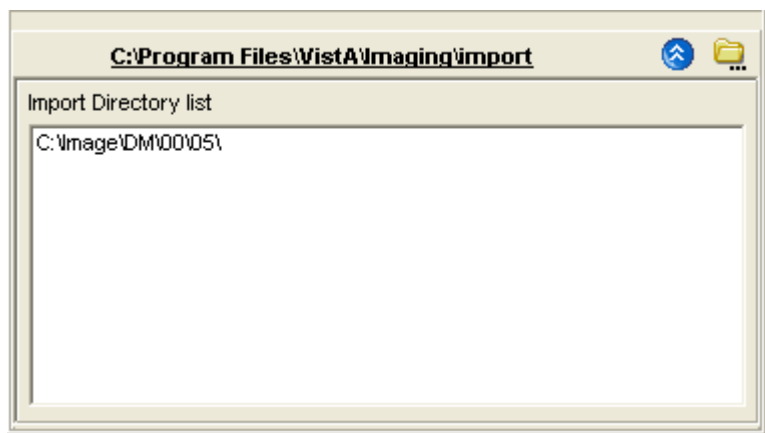
Open the Workstation Settings window – **Import Directories** Tab, by selecting the menu option '*Options|Import* Directory'.
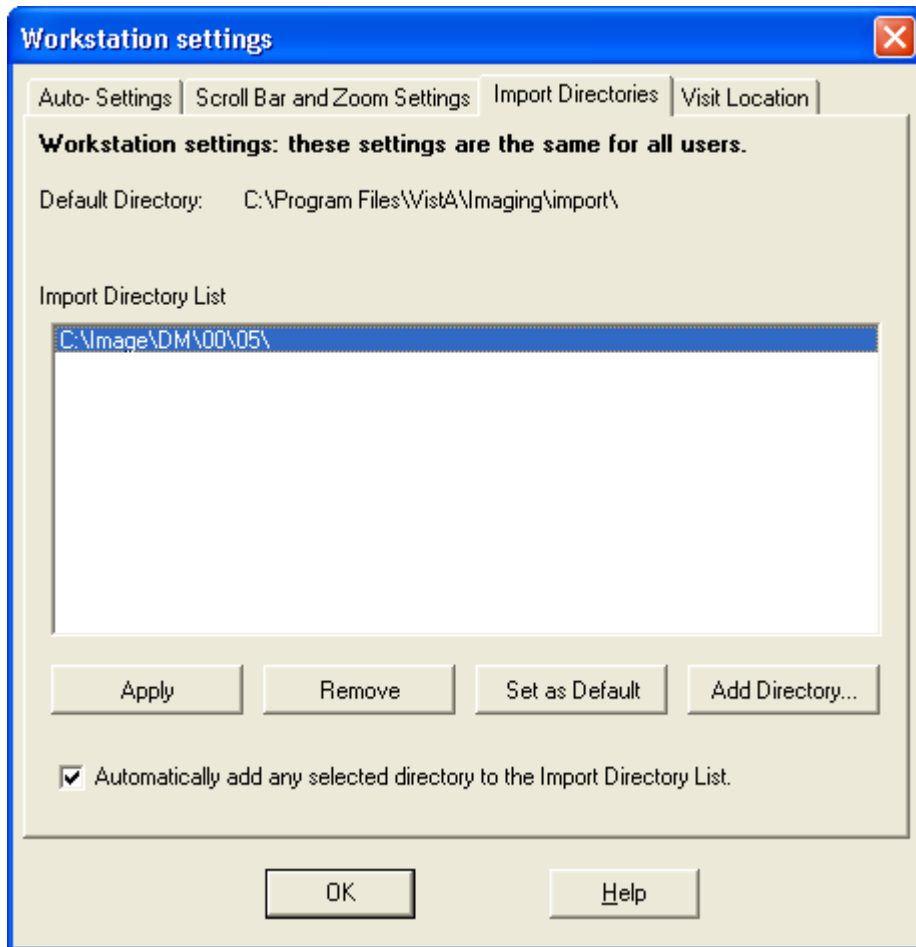
Click Add Directory Button to add a new directory to the Import Directory List.

When the 'OK' button is clicked, the image files will be redisplayed in the Import directory file list box on the Main Capture window.

Notes:
The images displayed in the file list box in this window are for display purposes only. Images are not selected from this window – just the directory from which to import images is selected. The images available in the selected directory are displayed in the bottom left frame of the capture window. A screenshot is included below.
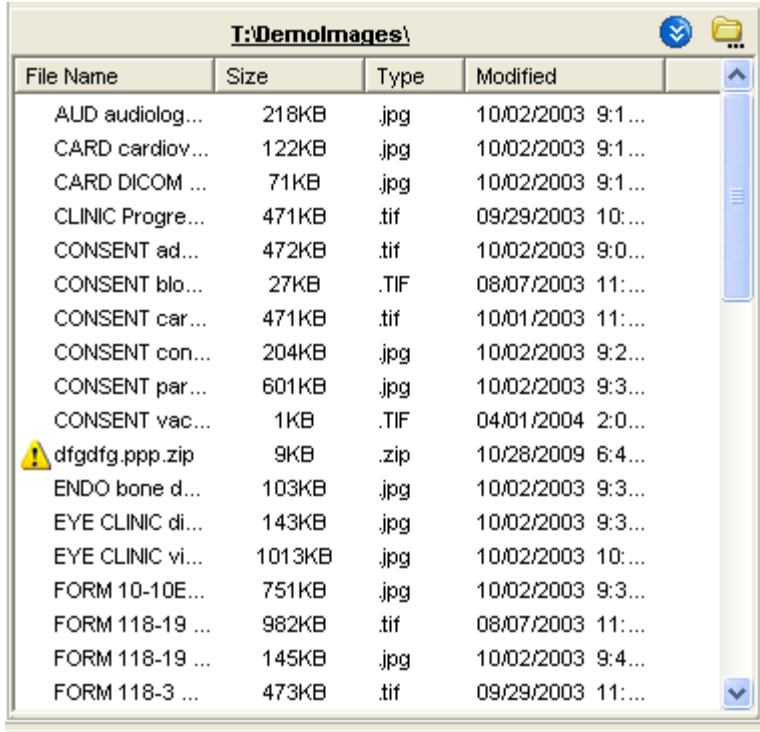
If 'Save as default' is checked, the Drive Directory and file mask will be saved by the system and used as defaults the next time this window is opened.

File mask or file filters are used to limit which files will be displayed in the file list box. The most familiar mask is '***.***'. This will display all files. Alternate masks can be typed, or selected from the list.

Timesavers

Topics covered in this section:

- *Using Keyboard Shortcuts*
- *Using "Auto-Settings" to Save Keystrokes*
- *Defining Display Area Defaults*
- *Settings*

Using Keyboard Shortcuts

You can speed up the capture process by using the keyboard for frequently repeated actions. The following table summarizes keyboard shortcuts that can be used in the Capture window.

Certain "Auto-Settings" may modify the behaviors described below. For more information about Auto-Settings, see the *Using "Auto-Settings" to Save Keystrokes* section.

To :	Do This…
Start scanning a document	Press ALT+C
Discard a scanned document	Press ALT+L
Finalize a scan (Image OK)	Press ALT+K
Complete a study Press	ALT+E
Select a new patient	Press ALT+P
Move from one input field to the next	Press TAB. A selected field will contain a blinking cursor. A selected button will be displayed with a dotted border.
Move to previous input field	Press SHIFT-TAB
Open a pull-down list	Press TAB until the field is selected, and then press the Down Arrow key.
Select an item in a pull-down list	Type the first few letters of the value you want to enter in the field, or use the Up Arrow or Down Arrow keys. When the appropriate item is selected, press ENTER.
Close a pull-down list (without selecting a value)	Press ESC (the Escape key)

Using "Auto-Settings" to Save Keystrokes

Options in the **Auto-Settings** tab can be used to reduce the number of keystrokes or mouse used during document scanning.

To specify Auto-settings for a user
In the main menu, click Options | Auto Settings. The Capture Session Settings dialog will open.
In the **Auto-Settings** tab, select or clear each option as desired.

When you are finished, click OK. Your changes will take effect immediately.
To associate the settings with the current login and to ensure that they are retained for future sessions, click Options | User Preferences | Save Preferences.

Defining Display Area Defaults

When a document is scanned, it will be displayed in the right side of the Capture window using a default zoom and image position. You can define what the default zoom and position can be using the following steps. Once defined, these settings can be associated with your login and then will "follow" you from workstation to workstation.

To specify Display Area defaults
In the main menu, click Options | Scrollbar/Zoom Settings. The Capture Session Settings dialog will open.

Settings

In the Scrollbar and **Zoom Settings** tab, choose one of the following options:

Settings	Explanation
Fit to Window Setting	Displays entire captured image at largest size possible, given the current dimensions of the display area.
Repeat Settings	Displays captured image using the zoom and position of the previously captured image. (Position is used only if the current zoom Last Displayed image does not permit the entire image to be shown in the display area.)
Always Use these Settings	Allows the user to apply whatever settings are used for current image for all subsequent captured images.
Positional	The position can be Center, Upper Left, Upper Right, Lower Left, or Lower Right, and is selected by clicking the box control near the bottom of the dialog. (Position is used only if the current zoom does not permit the entire image to be shown in the display area.)

When you are finished, click OK. Changes will take effect immediately.
To associate the settings with the current login and to ensure that they are retained for future sessions, click Options | User Preferences | Save Preferences.

Menu Options and Functions

Topics covered in this section:

- *Options menu*
- *Tools Menu*
- *Configurations Menu*
- *Capture Configuration List*
- *Save Capture Configuration*
- *Clear Configuration values*
- *Properties Saved with Configuration Definitions*
- *'Association' Configuration Settings*
- *Workstation Configuration*
- *Imaging Workstation Configuration Window*

Options menu

This section contains various options provided to users under the Options Menu used to customize the capture workstation as needed. The options are explained in the table below.
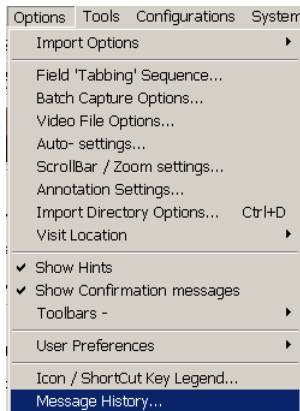
Field 'Tabbing' Sequence	The position and tabbing order of the capture controls can be changed with this option. Clicking this option opens the Tabbing Sequence Window as shown below. Select field and press Up/Down arrows to change the tabbing order as preferred.
Batch Capture Options	Select this option to change the options for batch capture of images. If "Prompt for Image Description" is checked, a description for each image in the batch has to be entered before saving. If "Delete Image File from Import Directory" option is checked, the image will be deleted from import directory after importing and saving into capture
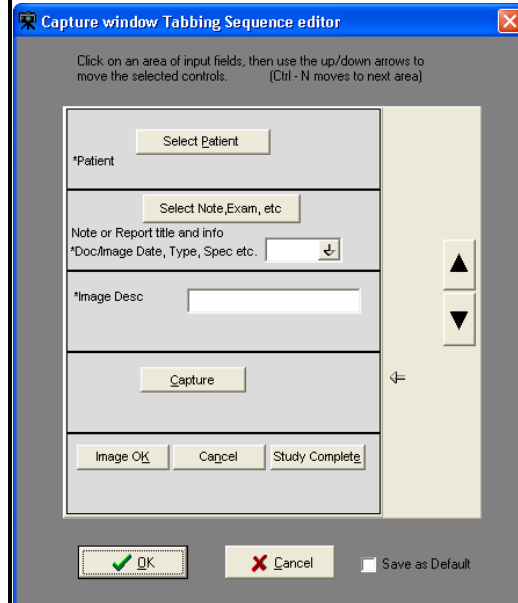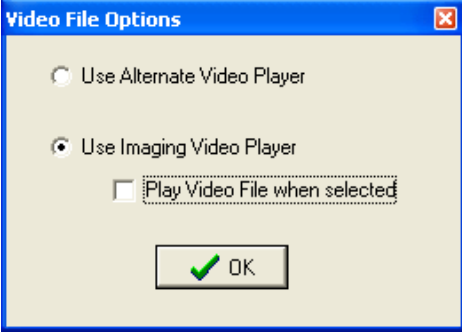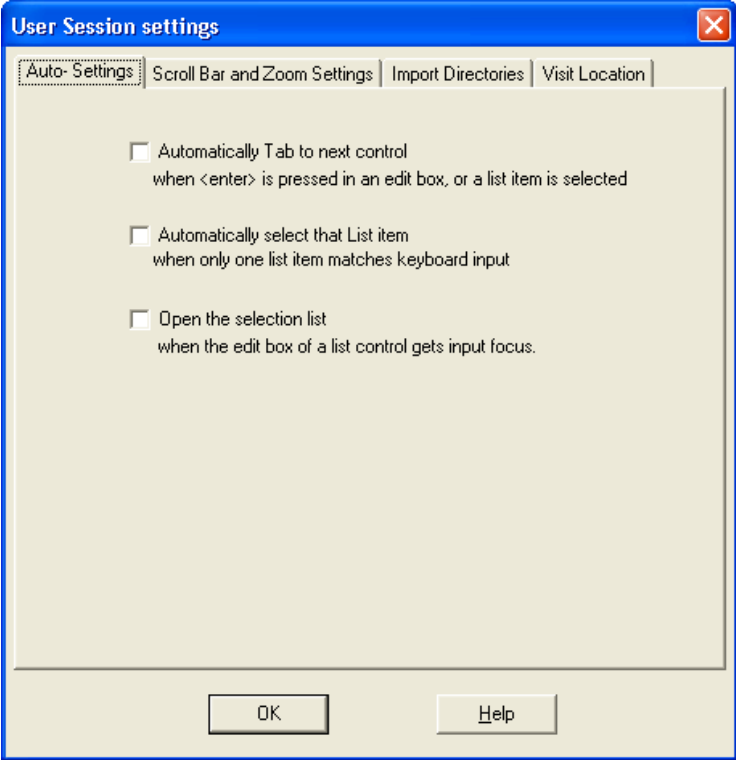
Video File Options	Use this option to select which player is used to play video files within Capture. Opens the Video File Options window. The Video File Viewer can be selected. "Use Imaging Video player" when selected plays video files using Imaging video player and "Use Alternate Video player" when selected plays video files using alternate video player.

Video File Options

○ Use Alternate Video Player

● Use Imaging Video Player
  ☐ Play Video File when selected

✓ OK

Note:.AVI files can be captured in VistA Imaging only. |
| User Session settings:

Auto-settings | Selection of user options for Tab and keyboard actions.

User Session settings

Auto- Settings | Scroll Bar and Zoom Settings | Import Directories | Visit Location

☐ Automatically Tab to next control
  when <enter> is pressed in an edit box, or a list item is selected

☐ Automatically select that List item
  when only one list item matches keyboard input

☐ Open the selection list
  when the edit box of a list control gets input focus.

OK   Help |

User Session settings: Scroll Bar/Zoom settings	Selection of user options for Scroll Bar and Zoom settings.
Global Annotation Attributes (Access via: 'Annotation Settings')	Option to select Global Annotation Attributes. See *Setting Global Annotation Attributes* for more information.
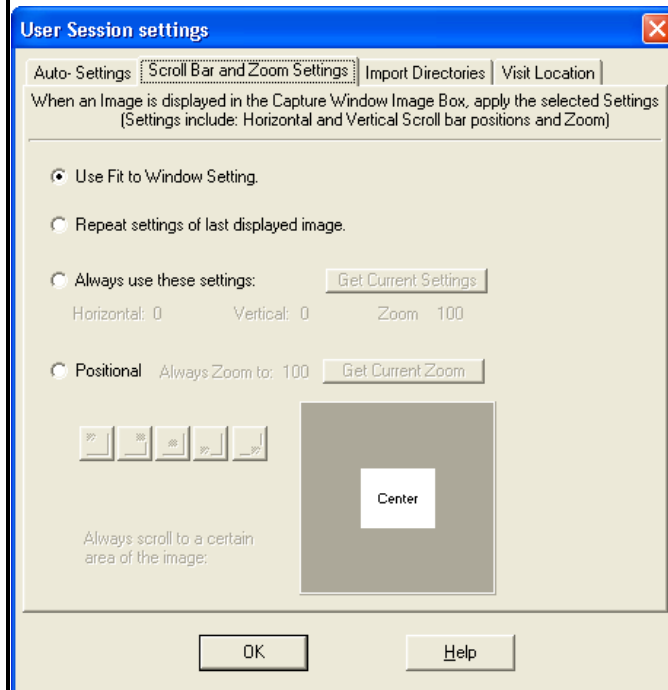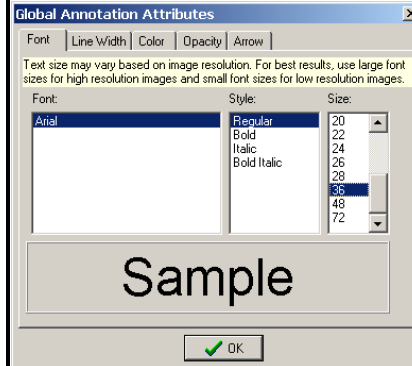
Workstation settings: (Access via: 'User Session settings') **Import Directories**	Option to select Import directory to import images to. See the *Importing Documents / Images* section for more information.
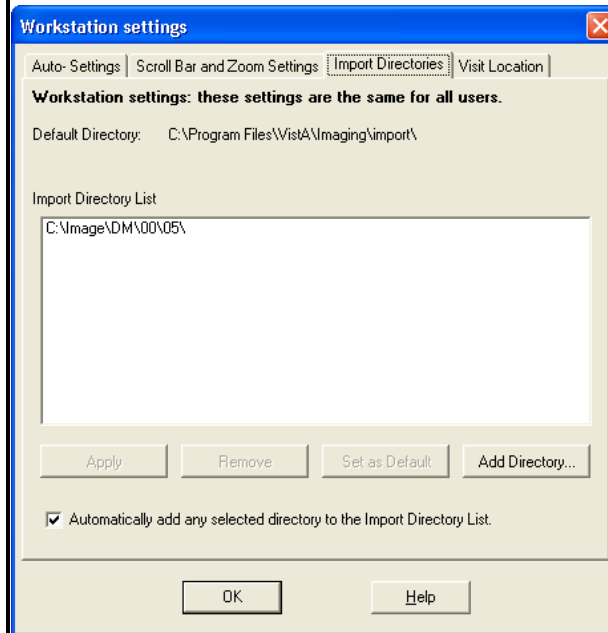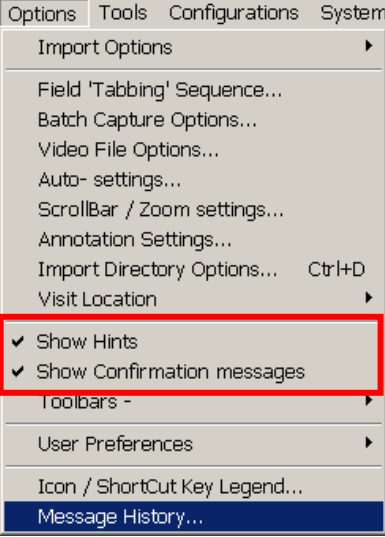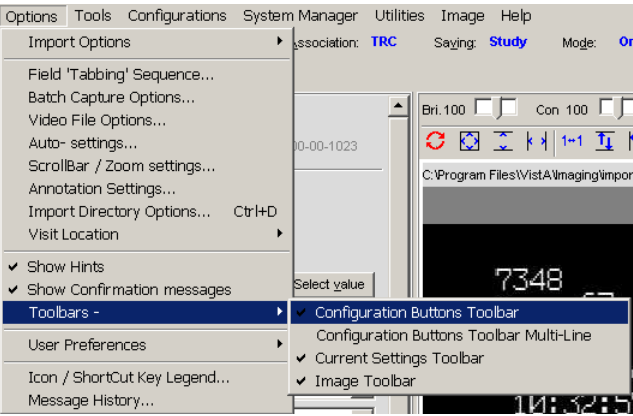
User Session settings: Visit Location	Option to select the default 'location' for new Progress notes when creating new TIU Notes. Visit Locations are locations found in the hospital (i.e. Wards, Clinics). User selects the Visit Location where the procedure took place. The value of Visit Location is an entry in the HOSPITAL LOCATION File (#44)

Show: • **Hints** *(on/off)* • **Confirmation messages** *(on/off)*	 When option is *checked*, dialog windows will interrupt the capture process requiring confirmation of certain operations. • An example is the 'confirmation window', where the 'OK' button must be clicked in order for the process to proceed. • This option should be *checked for new users* of the Imaging Capture System.
Toolbars	When option is *checked,* the Capture window toolbar will be visible and display the saved configurations as buttons. When *checked*, the current settings will be displayed at the top of the Capture Window. <Click> on a setting button to quickly change that setting only.
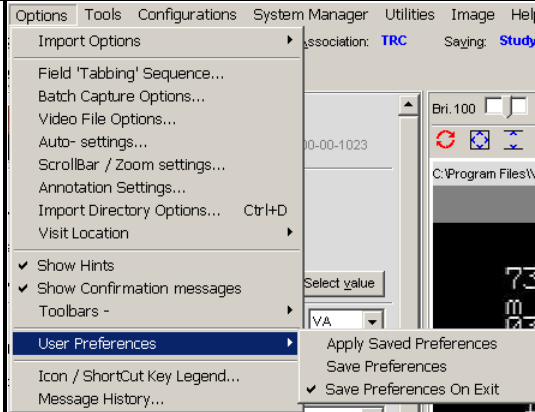
User Preferences	 The User Preferences option allows users to save all capture session settings controlled from the Options menu to the VistA system. • Once saved, capture session settings will *'follow'* a user, regardless of which Capture workstation they are logged into.
Message History 	This option when selected displays the Message History Window. For more information about this feature, refer to the MagLogger User Guide
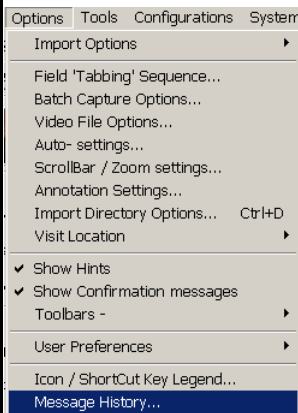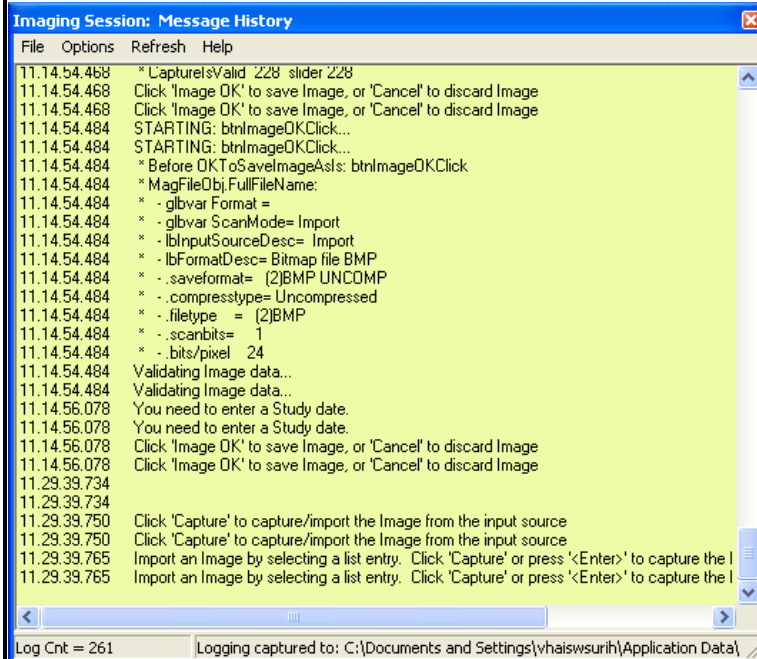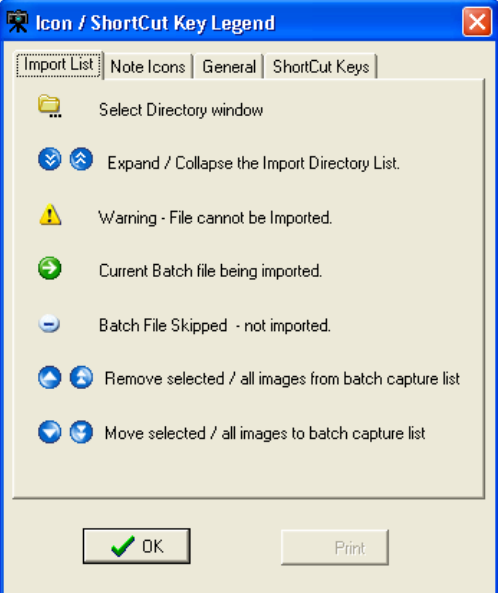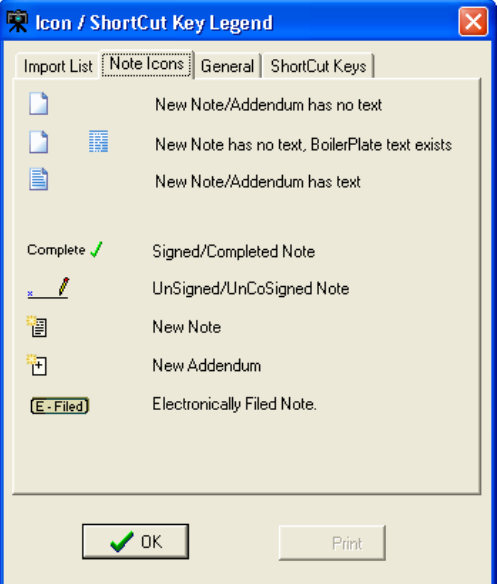
Icon / Shortcut Key Legend

This sub-section provides an explanation of Icons & shortcuts available and the legend.

Import List, Note Icons, General	This menu has a legend of icons available in Clinical Capture
Import List	**Import List** options tab has an explanation of the icons available in Import List Directory
Note Icons	**Note Icons** options tab has an explanation of the icons available in Progress Notes Window.

General	**General** options tab has an explanation of the icons available in Capture.
ShortCut Keys	**ShortCut Keys** tab shows a list of Shortcut Keys available in Clinical Capture. Below are screenshots of all available shortcuts.
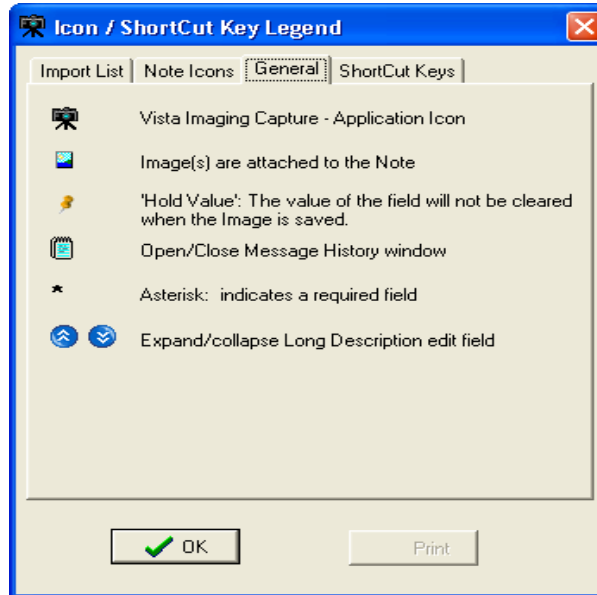
ShortCut Keys Continued	**Icon / ShortCut Key Legend** — ShortCut Keys tab Import List | Note Icons | General | ShortCut Keys **Key Combination** — **Function** *** Page Functions *** Ctlr + Alt + Left — Goto First Page Ctrl + Alt + Down — Goto Previous Page Ctrl + Alt + Up — Goto Next Page Ctrl + Alt + Right — Goto Last Page *** Selection Windows *** Ctrl + G — Image Configurations Window Ctrl + P — Patient Select Ctrl + L — Latest Patient Images Ctrl + D — Directory Import Options Ctrl + F — Configuration List Alt + P — Patient Select Alt + E — Select Associated Report *** Capture Functions *** Alt + C — Capture Image Alt + K — Verify Image is OK Alt + N — Cancel Image Alt + E — Study is Complete ✔ OK 🖨 Print
ShortCut Keys Continued…	**Icon / ShortCut Key Legend** — ShortCut Keys tab Import List | Note Icons | General | ShortCut Keys **Key Combination** — **Function** *** Configuration Settings *** Alt + S — Source of Image Alt + M — Format of Image Alt + A — Association to VistA Package Alt + V — Save Mode - Single or Group Alt + D — Mode - Live or Test Alt + R — Other - properties of Image Source *** Miscellaneous *** Alt + L — Long Desc edit box Alt + Down — in Date Fields: DateTime Dialog Shift+Ctrl + B — Move Selected Images to Batch *** Help Topics *** F1 — Open Help for the current control *** Menu Option access *** Alt, F10 — Press the Alt or F10 Key (you don't need to hold it down) The Menu keys are now active. Press the underlined characters to navigate the menu Alt, Space — System menu for the window ✔ OK 🖨 Print

ShortCut Keys Continued…	
	Icon / ShortCut Key Legend Import List | Note Icons | General | ShortCut Keys | Key Combination	Function | |---|---| |	| |	*** Closing Dialog Windows *** | | Alt+F4	Close the Active Window. | |	| |	*** Controls with Popup Menu *** | | Mouse <Right-Click>	Image Box | |	Import File List | |	Batch Import File List | |	Configuration Buttons Tool Bar | |	Configuration List | |	| |	*** Hold Value Popup menu **** | | Mouse <Right-Click>	Any Data Entry Field | |	Any Data Entry Field label | |	(excluding Date Fields) | ✔ OK 🖨 Print

Tools Menu

This section provides an explanation for the options available under the Tools Menu.
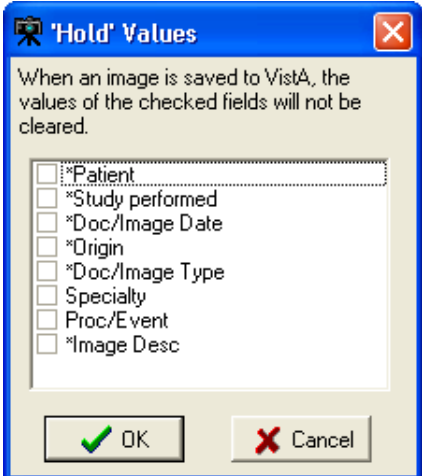
Option	Explanation
CPRS Link Options	Is enabled, if VistA Imaging Capture was started from the CPRS 'Tools' menu. Selecting this option opens the Imaging <-> CPRS Link window. The link between CPRS and Imaging can be disabled (broken).
Refresh Index lists	Operate on the Index.
Realign Index Fields	Executes the code to 'align' the index fields … i.e. the input fields on the left side of the window.

Configurations Menu

This section provides an explanation for the options available under the Configuration Menu.

Option	Explanation
Configuration Settings 	Opens the **Configuration settings** window. This option provides access to a submenu. The submenu lets you open the main Configurations dialog, or any of the dialogs typically opened from the configuration settings toolbar. • Source • Format • Association • Saving • Mode & • Other Image Capture settings can be changed using this option.
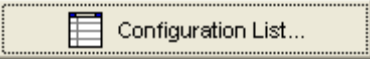
Select 'Hold' Values	Hold values window opens. You can choose fields to hold values here.
Configuration List	Opens Configuration List window. See below for more.
Save Configuration	Saves current configuration settings
Clear Configuration Values	Clears saved configuration settings
Numbers 1,2, 3	Represent recently saved configurations

All Settings

All Settings window shows all available options for Configuration settings. Settings can be changed here.
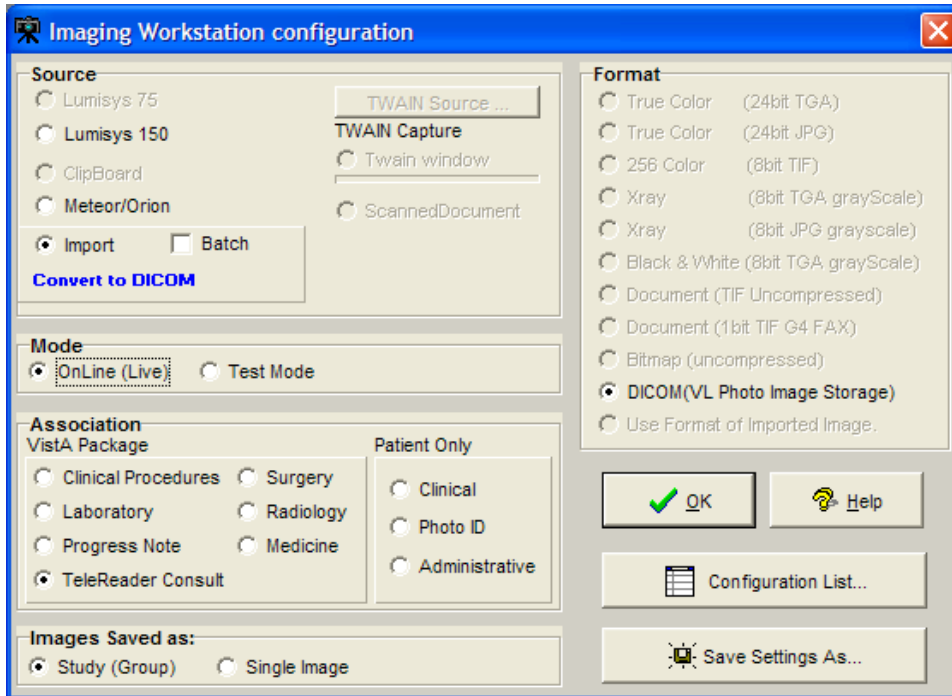
Capture Configuration List

The Configurations window is where capture configurations can be created, edited and deleted. Click the [Configuration List...] button to view the current configurations list.
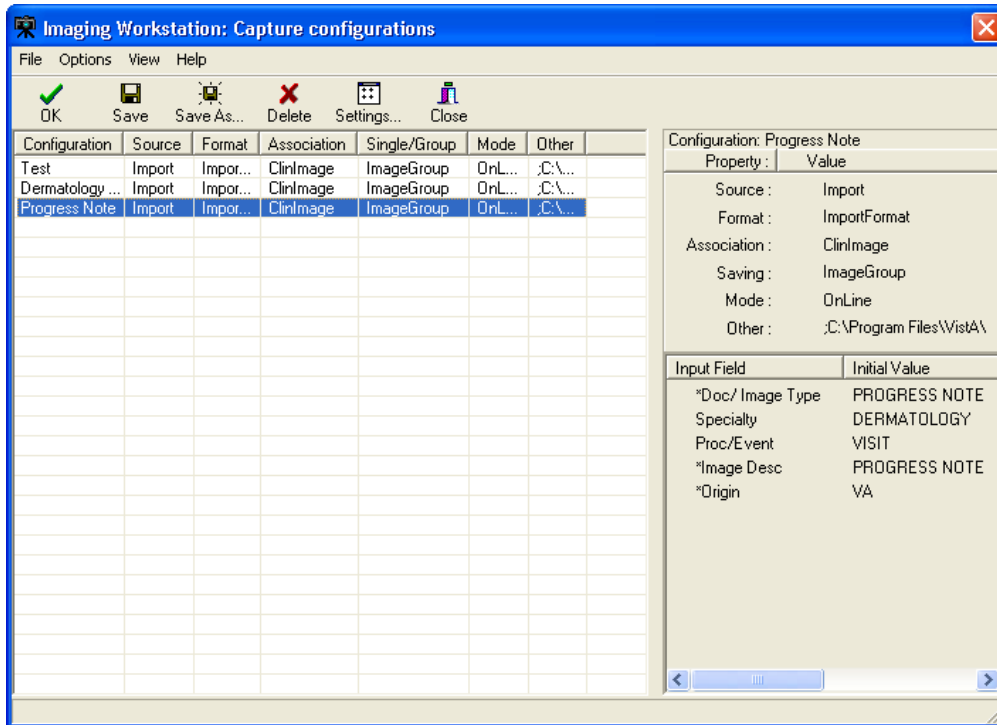
The Capture configurations list, which is used to display information about current configuration definitions, provides flexibility in how that information is displayed.

Configuration Info. Pane
This is the pane on the right side of the Capture Configurations list window. This pane displays the specifics of a selected configuration definition.
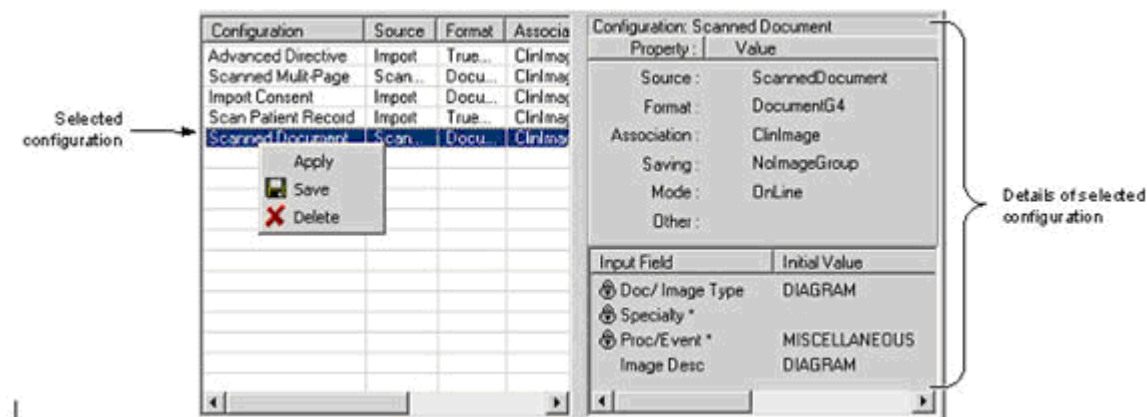
The top portion of the pane shows the 'standard' set of properties that can be set from the main Capture window or from the Configurations dialog.

- o   also includes an "Other" entry that can display specific settings such as:
- o   **Batch** - if it is checked during an import.
- o   **Interactive** - if Meteor/Orion 'Interactive' is checked while using a Meteor/Orion capture board.
- o   **Multi Page** - if the MultiPg Doc checkbox is checked during a Twain capture.

The *bottom portion of the pane* shows settings for the new Hold Value feature, and any initial values saved for specific index fields.

Configuration list
The configuration list on the left side of the window provides the following features:
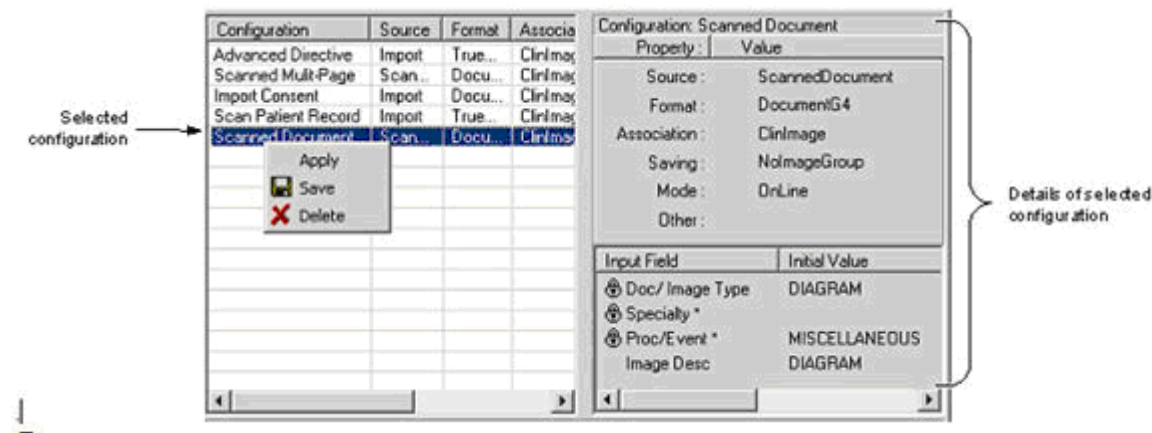
- Selecting (clicking) a configuration definition will display settings for that definition on the right side of the window. In previous versions, clicking a list item would cause those settings to be applied.
- Selecting (clicking) a configuration definition, and then clicking Save, will cause the current settings in the main Capture window to be saved to (overwrite) the currently selected configuration definition.
- When a configuration is selected, it can be applied by pressing <Enter>, or by clicking OK. The dialog will close when a configuration is applied.
- A configuration can also be applied by double-clicking it with the mouse, or by right-clicking it, then selecting Apply.

When these methods are used to apply a configuration:

- The dialog will remain open.
- The configuration list can be sorted by column heading by double-clicking the heading.
- The columns in the configuration list can be also resized based on the available space in the dialog or based on the information in each column. Resize options are available under the Options menu.

- The user can customize the configuration list by selecting which columns are displayed or not.
  This feature is available by choosing *Options | Column Select*.

View menu options let a user choose between views for the configuration list.

"Detail'" View

Configuration	Source	Format	Associa
Advanced Directive	Import	True...	ClinImag
Scanned Mulit-Page	Scan...	Docu...	ClinImag
Import Consent	Import	Docu...	ClinImag
Scan Patient Record	Import	True...	ClinImag

(a) 'Detail' view, containing details for each configuration definition.

"List" View

ClinImage Study
Admin Coorespondence
meteor INT
Clin single
Scanned Multi-Page

(b) 'List' view, an abbreviated list showing only the names of the configuration definitions. Details of a selected configuration are shown on the right side of the Capture Configurations window.

Menu for Capture configurations list
There is a menu bar at the top of the Capture Configurations dialog. All functionality for this dialog is accessible from the menu.

Menu options are summarized below.

Menu & Functionality

Options menu

- *Apply Selected Configuration:* applies selected configuration to main Capture window.
.
- *Fit Columns to Form:* resizes each column to fit in the visible area of the list.
- *Column Select:* opens the Column Selector window
  - The user can select which columns to display in the detail view of the configuration list.
- *Stay On Top*
  - If checked, this window will stay on top of all other windows in the application.

View menu

- List/Details:

    ▪ Switches between List and Detail views.
    ▪ Displays or hides the Capture Configurations dialog toolbar, described below.

Toolbar
View menu can turn the toolbar on and off.

The OK button can be used to apply the currently selected configuration definition and close the Capture Configurations window.

Save Capture Configuration

Click Save Configuration option under Configuration Menu. Name the Configuration created then click OK.
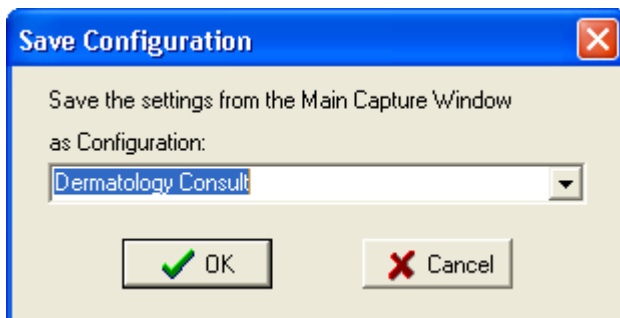
This dialog can be used to save the current state of the main Capture window as a new or existing set of configuration settings.

Clear Configuration values

This option is used to clear the Image Workstation configuration screen of all its values except for the Patient name and Social Security number.
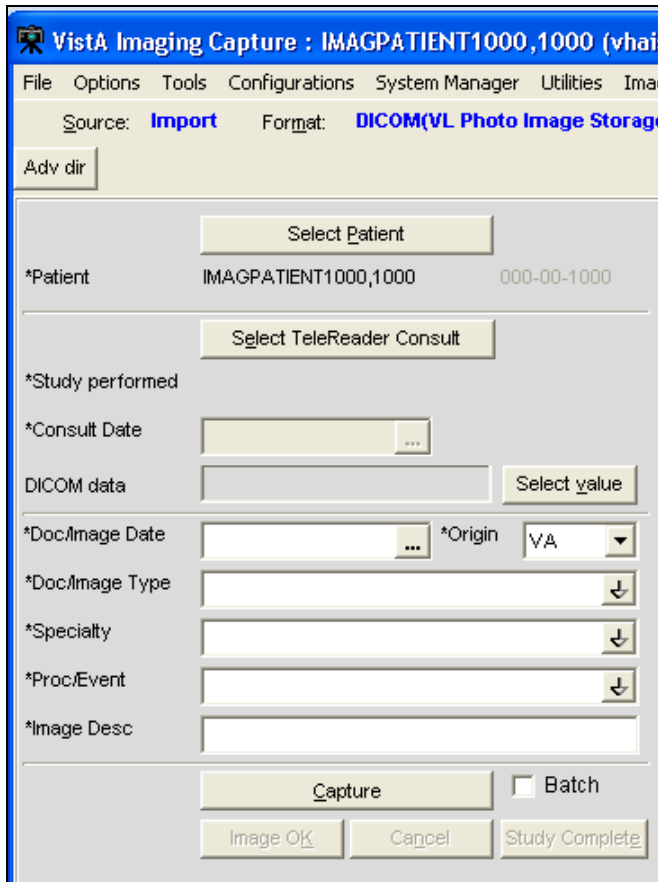
(1) Configurations Settings - option provides access to a submenu. The submenu lets you open the main Configurations dialog, or any of the dialogs typically opened from the configuration settings toolbar.

(2) Select Hold Values - option that opens the Hold Values dialog.

(3) Save Configuration - option allows direct access to the Save Configuration dialog.
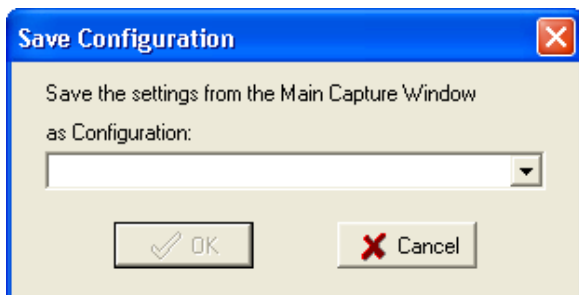
This dialog can be used to save the current state of the main Capture window as a new or existing set of configuration settings.

Properties Saved with Configuration Definitions

The following properties will be saved when a capture configuration definition is defined:

The **properties**:

- For each input field, the status of the 'Hold Value' feature will be saved. This feature can be used in some situations to reduce repetitive data entry.
- The current value of the index fields: Type, Specialty and Proc/Event, will be saved.
- The current value of the existing Image Description field will be saved.
- When Twain Window or Scanned Document is selected, the user can specify if multiple page documents are being scanned or not.

'Association' Configuration Settings
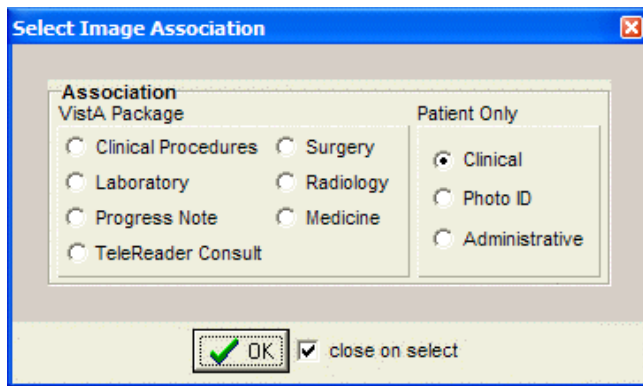
Designation	Use For
Patient Only/Clinical	Outside medical records, discharge summaries, etc.
Patient Only/Photo ID	Photo ID
Patient Only/ Administrative	Advance directives, means test forms, etc.

Workstation Configuration

Workstation Configuration allows the system manager to define a default configuration when VistA Imaging Capture is initially installed on a workstation.

An example of a default configuration is:

- Enabling only the input Sources, image Formats and Associations (medical and/or administrative images) that apply to this workstation.
- Defining default settings for input Source, Format and Association.

Because of the default configuration VistA Imaging Capture will be configured to begin capturing images when it is started.

Note: Some of the choices on the configuration window for input Source, image Format and Association will be grayed-out (disabled) because of the default configuration. If there is a need to have configuration settings enabled contact the System Manager.

Imaging Workstation Configuration Window

The toolbar used to show current settings at the top of the Capture window.

- Clicking the title of each setting will launch its dialog.
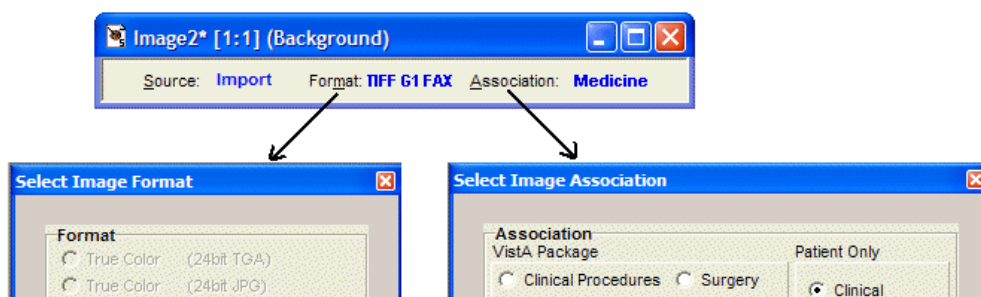
The related areas in the Imaging Workstation Configuration dialog:

'Auto Detect Image Format' for imported images:

- When images are imported from an image server (Source = Import), the Capture program will automatically determine the proper image format based on the filename extension (JPG, PDF, etc.) of the image. This will reduce the chances of the incorrect image format being selected, and allows batch captures for groups of images with mixed formats.

This feature is reflected:

- in the main Capture window, when Import is selected as a Source,

(1) The Image Format indicated at the top of the window will initially appear blank.

(2) The Image Format of the image being captured will be shown when the capture is complete.

(3) The Image Format will be updated with each new capture.

For example:
(1) Source initially set to Import

(2) Capture occurs, imported file is PDF format
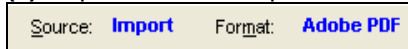
(3) Next capture occurs, imported file is AVI format
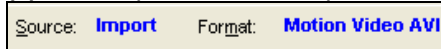
Use Format of Imported Image option, will automatically be selected when Source is set to Import. Other Format options will be disabled. This affects the Select Image Format dialog and the Format area of the Imaging Workstation Configuration dialog.
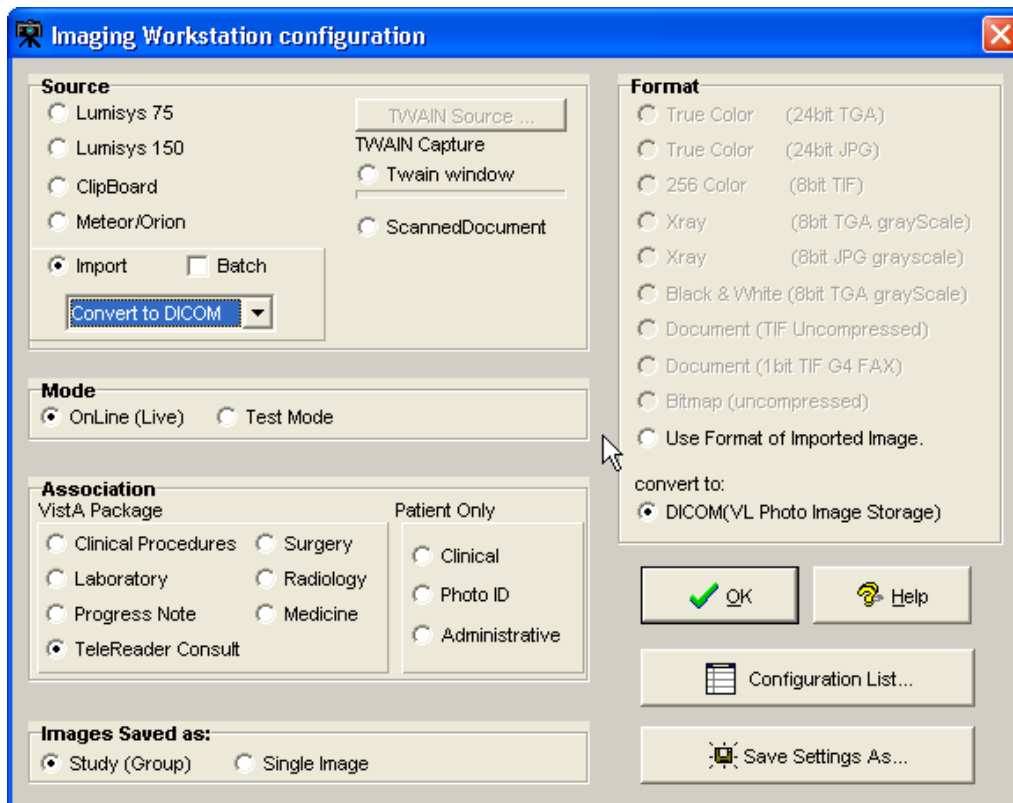
The **Image Format** is used to indicate the type of image resulting from the capture process.

Possible formats include:

Image Format	Description
True Color TGA	24-bit image
True Color JPG	Meteor produces 640x480 pixels TWAIN produces a variety of resolutions: 256 color 8-bit color image variable spatial resolution depending on source
X-ray	8 or 12-bit grayscale image
X-ray (JPG)	8-bit 8-bit grayscale JPG image

Image Format	Description
Black and White	8-bit grayscale image 768x486 or 640x480 pixels
Document (TIF uncompressed) 1-bit	300x300 dpi (or other resolution)
Document (TIF G4 FAX)	TIFF G4 compression
Bitmap (uncompressed)	BMP image
Adobe	PDF Adobe Acrobat document
Rich Text	RTF Rich Text Format document
Motion Video	AVI motion video file
Text File	TXT file
Web Document	HTM Hypertext Markup file
Audio	WAV sound file
X-ray	Used for scanned x-ray films of any sort: includes Lumisys may be used for other black and white images where exact manipulation of the grayscale is necessary.

NOTE: The greater gray scale or color dpi chosen the larger the physical file created. This will affect transmission and storage processing times.

Clinical Capture System Manager Options

These are options that are available only to those who have the MAG SYSTEM KEY assigned to them.
If you **do not** have the MAG SYSTEM KEY assigned to you, you will not have these options available to you.

System Manager Menu

VistA Imaging Capture: System Manager Menu option

The System Manager Menu option in VistA Imaging Capture will be visible for users that have the Imaging Security Key "MAG SYSTEM" assigned to them.
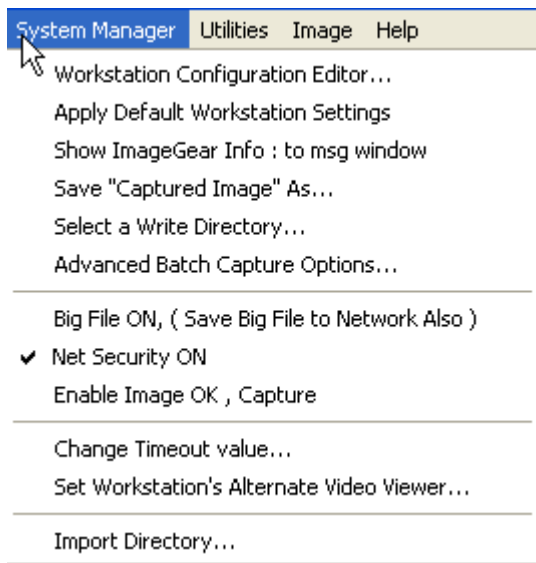
Workstation Configuration Editor

> Opens the Workstation configuration window where workstation settings can be modified. This is an alternate way to access the Workstation configuration window. This menu item simply runs MAGSYS.EXE

Apply Workstation Settings

> Applies the current configuration settings from the Workstation configuration file to the VistA Imaging Capture Application.

Show ImageGear Info : to msg window

> Opens the message history window and displays information about the current
image.
> (Intended for debugging purposes)

Save "Captured Image" As

Save an Image to the workstation. (intended for debugging and demonstration purposes)

Select a Write Directory

This option opens a window to select the Network Directory to save captured images to. (This is the only way to save an image to a directory other than the 'WRITE LOCATION' field in the SITE PARAMETERS File. The directory chosen will remain in effect for the remainder of this Capture session.

Advanced Batch Capture Options

Opens the 'Batch Capture Options' window.
During Image Import, if the check box 'Copy all associated files.' is checked, the import directory will be searched for files with the .BIG or .TXT extension that match the Imported filename. These files will be copied to the Network Directory along with the Imported Image.

Big File ON, (Save Big File to Network Also)

If using the Lumisys 100 scanner capable of scanning BIG files, check this option and the BIG file will be saved along with the reduced image.

Net Security ON

Turns ON/OFF Imaging Network security.

When Imaging Network security is ON, the Imaging system will make a connection to the Imaging Network Server as a user that is defined in the Imaging Site Parameters File and break the connection when the Image is opened, or fails to open.

When Imaging Network Security is off, Imaging makes no attempt to connect to a network directory. The workstation must have a drive mapped to the Network directory to be able to capture images or the user that is logged in to the workstation must have access to the Imaging Network server. (intended for debugging purposes)

Change Timeout Value

The VistA Imaging Capture Session will time out after a specific time of inaction. That time is set in the IMAGE SITE PARAMETERS File. That setting can be changed for individual workstations with this menu option. The changed setting will remain in effect until it is changed again. If the setting is changed to '0' (zero) then the entry from the IMAGE SITE PARAMETERS file will be used as the timeout.

Set Workstation's Alternate Video Viewer

Select this option to open a file selection dialog widow. In this dialog window, select a video file viewer to use for all video files.

VistA Imaging displays video files (AVI Files are the only video files supported in V. 2.5) in the VistA Imaging Video Display window by default.

For an alternate video viewer to be used for video files, the 'Use Alternate Video Player' radio button must be selected in the Video File Options window.

The 'Options|Video File options' menu option opens the 'Video File Options' window. The User can select 'Use Alternate Video Player'.

If 'Use Alternate Video Player' is selected, all video files will be opened in the video file viewer that is associated with files of type '*.AVI' defined through the operation system. The System Manager can change the alternate video file viewer for the workstation to a video file viewer selected in the open file dialog window.

Workstation Configuration

The Imaging Workstation Configuration Editor controls many workstation parameters for the VistA Imaging System. This option is only available to the holder of the MAG SYSTEM Security Key.
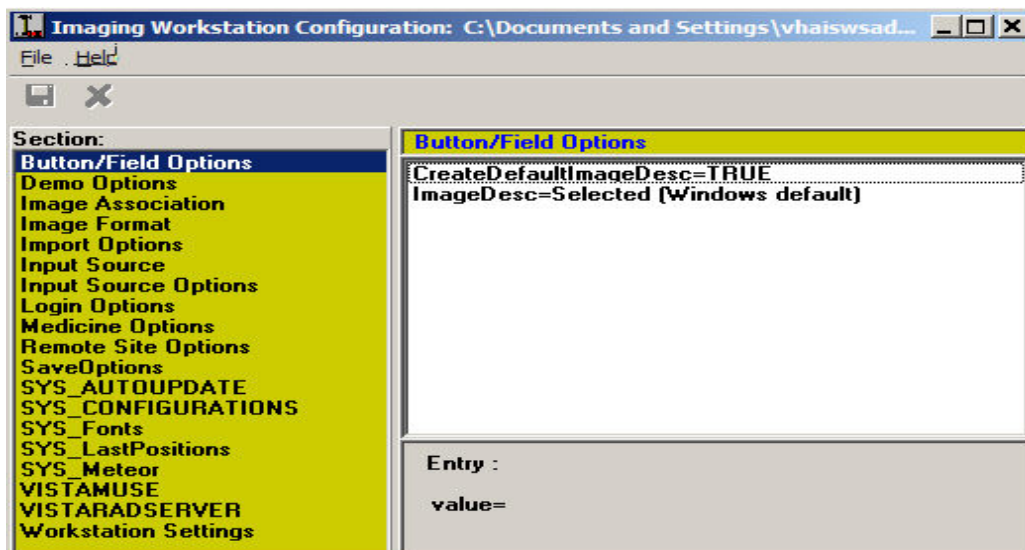
Button/Field Options:

This section contains an explanation of options under Button/Field Options

[Button / Field Options]   selectable at runtime NO

This Section is for options that relate to edit fields and buttons in VistA Imaging Capture. (Currently only the Image description edit field has options.)

CreateDefaultImageDesc=TRUE   default TRUE:
 In the process of capturing an Image, a description must be entered for the Image. Set this entry = TRUE and the Imaging System will create a default Image description.

ImageDesc=   (Three choices for the ImageDesc entry)

When the Image description date entry field has the input focus, the cursor can be positioned at various positions and the text can be selected or not selected.

1)   Selected (Windows default)
        Text will be selected and typing by user will overwrite text
2)   NoSelectCursorEnd
        Text not selected, typing by user will be appended to the end of the text
3)   NoSelectCursorHome
        Text not selected, typing by user will be inserted at beginning of the text.

NOTE: You can always type in whatever description you like. This option is intended for anyone, but especially for users capturing groups of images, or many related images. This will allow a default image entry, and additional text appended to it, without the need to first Un-Select the text or reposition the cursor.

Demo Options

[Demo Options]   selectable at runtime NO

Open Abstract Window=TRUE   default = TRUE

 Set the Open Abstracts Window = TRUE if you want the Abstracts window to always open when you select a demo patient. NOTE: you can open the Abstracts window at any time by clicking the Abstracts button, or selecting the 'View|Abstracts' menu option on the Imaging Display window.

Image Format

[ImageFormat]   selectable at Runtime YES

The following is a list of all of the possible image types. All entries in the Image Format section have true/false switches. At least one switch must be set to TRUE, and the default image type cannot be set to NONE. Only those entries set to TRUE are selectable by the user at runtime through the menu option 'Options|Configuration'.

True Color TGA=TRUE   default FALSE
     True Color JPG=TRUE   default FALSE
     256 Color=TRUE   default FALSE
     Xray=TRUE   default FALSE
     Xray JPEG=FALSE   default FALSE
     Black and White=TRUE   default FALSE
     Document TIF Uncompressed=TRUE   default FALSE
     Document TIF G4 FAX=TRUE   default FALSE
     Motion Video=TRUE   default FALSE
     DICOM=TRUE   default FALSE
     Audio=TRUE   default FALSE
     Default=Xray   default NONE

You can prevent unnecessary confusion for the user, and phone calls for help. If you enable (device =TRUE), only the Image types that will be captured at this workstation.

Example: A workstation is connected to a Lumisys Scanner; the site manager has enabled Image Type 'Xray' only. On another workstation attached to a HP ScanJet he has enabled 'True Color JPG' and 'Document TIF G4 FAX'

Note: The Image format that is chosen by the user is saved with the image. The Image Type determines which Image Viewer to use when displaying the image with VistA Imaging Display.

Import Options

[Import Options]   selectable at runtime YES/NO

Type=Copy to Server   default 'Convert to TGA'   selectable at runtime: NO
      DefaultImportDir=c:\image: default 'C:\'   selectable at runtime: YES
      (The default directory of images to import)
      DefaultMask=*.TGA: default '*.*'   selectable at runtime: YES
      (The default mask; only files matching the mask will be listed.)

The 'Import' Input Source allows the user to select an existing image file from their local workstation or Network directory to be imported into the VistA Imaging System. Importing involves identification of the patient and other image-related information.

The import may be done in several different ways:

The Type entry has 3choices

      1) Copy to Server
      2) Convert to TGA
      3) Convert File Format to Default

The Copy to Server mode means that the imported file will be copied to the server, receiving a new name assigned by VistA. The file extension of the copied file will be the same as that of the original file. The file is copied exactly. This option is especially important for a compressed file format such as JPEG. Its use means that the image data is not compressed again, resulting in further loss of quality. The VistA Imaging Display software will support the following formats: TGA, TIF, BMP, JPG, PCX, GIF, MAC, MSP, PSD, PCD, PCT (raster images in version 1 and version 2), Sun Raster, WMF (raster only), WPG (raster only). For any other formats, please ask the imaging staff (301-427-3700.)

The Convert to TGA mode is required at sites that are still operating Imaging version 1.0 display workstations based on Truevision Vista boards. This mode resaves the imported image to the Imaging file server using the TGA file format. This is an uncompressed format.

The Convert File Format to Default allows sites to convert to a selected ImageType format. The Image will be converted to the selected 'ImageType'. Image Type is selectable at runtime from the menu option 'Options|Configuration'. Only those types

marked as TRUE in the [ImageType] section of the MAG.INI file are selectable at runtime. Currently only TGA, TIF, JPG are supported.

Note: DefaultImportDir, DefaultMask, properties are saved at runtime if the user checks the 'Save setting as default' checkbox on the 'Select Import Directory' Window.

Input Source

[Input Source]   selectable at runtime YES

The VistA Imaging System allows many types of image capture. This section of the MAG.INI files controls the input types that are allowed from a particular workstation. The following input types are supported:

- Lumisys 75   xray scanner
- Lumisys 150   xray scanner
- Meteor   Video Capture Board with Millenium VGA board
- TWAIN-   TWAIN compliant devices (devices that support a TWAIN interface)
- Import -   Import Mode allows the user to select an image that is residing on a disk on the workstation and import it into the VistA Imaging System.
- Three modes of import are supported "Copy to Server", "Convert to TGA" and "Convert File Format to Default". (See the section   [Import Options])
- ScannedDocument - Twain device capture of 1 bit Document Images.

Each entry has a true/false switch, which controls user access during an Imaging Capture Session. At least one device MUST have 'device=TRUE'. The default setting MUST be set to something other than NONE. To change values, click the input type you wish to modify. You will see two radio buttons at the bottom of the window. Select the TRUE or the FALSE button. The value will change in the file, for example, Lumisys75=TRUE. Only those entries set to TRUE are selectable by the user at runtime through the menu option 'Options|Configuration'

Note : All workstations are capable of Importing an Image. No device is necessary for this type of Image Capture.

You can prevent unnecessary confusion for the user, and phone calls for help, if you enable (device =TRUE) only the devices that are available to this workstation for capturing of images.

Input Source Options

[Input Source Options]   selectable at runtime YES

- 256 Color Enabled=FALSE, default FALSE:
    Set the 256 Color Enabled entry = TRUE if the Scanner you are using is
    capable of scanning 256 Color Images (8-bit color.)

Login Options

[LOGIN Options]   selectable at runtime NO

LoginOnStartup=TRUE,   default TRUE:
    You can set LoginOnStartup=FALSE to disable the automatic login to the VISTA System. You can always login or logout by selecting the 'File|Login', 'File|Logout' Options.

    AllowRemoteLogin=FALSE   default FALSE
    This setting determines whether the initial login (if LoginOnStartup=TRUE) will display a list of Remote VistA Sites to choose from.

Local VistA=BROKERSERVER   default: BROKERSERVER
        First, the Local VistA site must be defined. This is the VAMC that the Imaging System will connect to. The name typed into the edit box for the local site must match exactly an entry in the workstation's c:\windows\hosts. file.

Local VistA port=9200   default 9200
    This entry refers to the TCP/IP port on the VISTA System that the Kernel Broker 'listener' process is using. Refer to the Kernel Broker documentation. Usually the port is 9200. If no entry is made 9200 is used.

Medicine Options

[Medicine Options]   selectable at Runtime YES

Capturing images and associating the image with a Medicine procedure can be made a little smoother with the following settings.

Create New/List Existing=   (choice of 2)   default=Create New
            1) CreateNew
            2) ListExisting
        Create Procedure stub first=FALSE   default FALSE

If the Imaging workstation will always be associating the captured images to New medicine procedures, then select Create New, this will set the Medicine procedure selection window default to Create /New procedure.

If 'ListExisting' is selected then the medicine procedure selection window will default to showing a list of patient procedures for the selected Medicine SubSpecialty.

When a captured image is associated with a New medicine procedure, the medicine procedure isn't normally created until the first image is saved. If the user has a need to edit the medicine procedure text before the image is saved set Create Procedure stub first=TRUE. The user will have to be logged into VistA Medicine Package to edit the procedure text.

Save Options

[SaveOptions]   selectable at runtime YES

Default=Group   (2 Choices for Default)   default=GROUP

        1) Group
        2) Single

The user of the Imaging System Capture window has the option of saving multiple images as a 'Study Group' or of saving the images as 'Single' images. The default value is GROUP. You can set the switch to GROUP or SINGLE.

Association

[Association]   selectable at runtime YES

This section of the mag.ini file controls which VistA package the captured image will be associated with and hence where the reports associated with the image will be located. Choices include:

- Laboratory =FALSE   default=FALSE
- Medicine =FALSE   default=FALSE
- Radiology =FALSE   default=FALSE
- Surgery =FALSE   default=FALSE
- PhotoID =FALSE   default=FALSE
- Progress Notes =FALSE   default=FALSE
- TeleReader Consult=FALSE   default=FALSE
- None =FALSE   default=FALSE
- Default=None   default=NONE

The Default item should be set for the package which is most commonly used for image capture from this workstation. The Image Capture window will be initially configured for the default package when the window is opened. Select the package to be changed from the list box shown by clicking it. Use the radio buttons at the bottom to select True or False. The Imaging System Capture window user will be able to select from all Associations set to True.

To set the default package, select Default from the list box. Select the abbreviation for the default package from the pull-down list shown below. All entries in the Association section have true/false switches. At least one switch must be set to TRUE, and the default specialty should not be set to NONE. Only those entries set to TRUE are selectable by the user at runtime through the menu option 'Options|Configuration' .

Setting None=TRUE will allow you to select a User Defined Specialty/Category to associate with the image.

SYS_AutoUpdate

[SYS_Autoupdate]   selectable at runtime NO

These entries control the Imaging Systems autoupdate feature (See AutoUpdating the Imaging Applications for details).These entries are modified by the Imaging Application: do notmodify these yourself.

-DIRECTORY=\\NETWORK_SERVER\UPDATES\DISTRIB
   This is the directory where Imaging updates will be copied. This entry is modified when
   MAGASET.EXE is run from the update directory.

-ComputerName=GARRETT
   This is the Network Computer Name as defined through MS Windows/NT Network
   Settings. This entry is modified by MAGSETUP.EXE

-LASTUPDATE=2970605.1458
   This is the date/time of the last MAGSETUP.EXE file that was run on this workstation. It is
   modified by MAGSETUP.EXE

SYS_Configurations

 [SYS_Configurations]   selectable at runtime YES

1=Import,JPEG,Med,Group=+import+TrueColorJPG+medicine+imagegroup++online
        2=Import,JPEG,Lab,Single=+import+TrueColorJPG+laboratory+NoImageGroup
++online

These entries are modified by the Imaging Application: do not modify these yourself. These entries keep information for the user definable 'Hot Buttons'. The 'Hot Buttons' allow the user to quickly change the Input Type, Image Type, Specialty, Single/Group and Mode settings to saved values.'Hot Buttons' are described in the 'Imaging Workstation Configuration' Window section.

By creating Hot Buttons for a Capture workstation (creating Hot Buttons is optional) you will allow the user to switch configurations with one click of the mouse. The user will not have to take the time to select each setting from the list of available Image Types, Input Types, Specialties, etc.

Note: The entries shown here are examples only. When you first setup an Imaging Workstation for Capture, there are no Capture configurations defined.

SYS_Fonts

[SYS_Fonts]   selectable at runtime NO

This is used by the Imaging System to record the fonts of certain controls and windows in the Imaging Applications.

Some of the controls that the font can be changed are: Report Window, Patient Lookup selection list, Surgery selection list and others.

Do not modify these entries yourself, it is maintained by the imaging system.

SYS_LastPositions

[SYS_LastPositions]   selectable at runtime NO

This is used by the Imaging System to record the last positions of the application's windows.
Do not modify these entries yourself, it is maintained by the imaging system.

SYS_Meteor

[Sys_Meteor]   selectable at runtime YES

These entries are modified by the Imaging Application: do not modify these settings yourself. These entries are used by the system as parameters for capturing images with the Meteor Input Type.

VISTA MUSE

[VISTAMUSE]   selectable at runtime YES

The VISTAMUSE section holds information specific to the VistA MUSE windows.
These windows interface with the Marquette MUSE Database to access patient EKG's.

IMAGESIZE=1132,738   no default;
    GRIDON=TRUE   default TRUE
    ShowDottedGridDlg=TRUE   default TRUE
    PrintDottedGrid=TRUE   default TRUE
    SiteNumber=0   default 0

Changing the size of the EKG image with the Zoom controls will increase the IMAGESIZE, and the last image size is saved to this section.,

The Grid On/Off setting is also saved.

Printing of the grid has caused some problems on certain printers. If the grid on a printed EKG is not visible or consistent, try the Print Dotted Grid. The Dotted Grid seems to print consistently on most printers.

The MUSE Database can have more than one site number. Each site number is stored in a separate directory on the MUSE Server. Directories are given names starting with 'Site' i.e. Site01, Site02, Site03...A field in the Imaging Site Parameters file is set to a site number and all Imaging Workstations use the setting in that field. You can change this entry, if you need to have an individual workstation connect to a different site number.

Notes:
- Setting SiteNumber = '0' (zero) tells the workstation to use the Imaging Site Parameters file setting.
- AutoUpdating section in the installation guide explains how to automatically update each workstation with the MUSE MainServerName and MainVolName. These entries in the WIN.INI file are used when the workstation connects to the MUSE Database to access EKG's.

Workstation Settings

[Workstation Settings]   selectable at runtime NO

These are workstation settings that relate to various areas of VistA Imaging.

ID=IRD   default=UNKnown
    Workstation ID, i.e. 'IAD' a unique identifier for this workstation, used in the Imaging Access Log File (2006.95.)

Location=Ruth's_Desk   default=UNKnown:
    Location of the workstation, a unique free text field, i.e. "GI Conference Room."

Abstracts created=True   default=TRUE
    This should be set to True if the Image Abstract is to be created by the workstation. If set to FALSE the Image Abstract will be created by the Imaging Background Processor Workstation.

Save Radiology BIG file=True   default=FALSE
    This should be set to True if the 2k x 2k scanned x-ray file is to be saved along with the 1k x 1k file and the abstract.

Display JukeBox Abstracts=TRUE, default TRUE:
    Displaying Abstracts that are located on the JukeBox takes longer than if the abstracts are on the magnetic image server. To stop the display of Jukebox Abstracts set this entry = FALSE.

Log Session Actions=FALSE   default FALSE
  A record of all Actions performed by the user of Imaging System display window
  can be saved by setting this entry = TRUE.

VistARad test mode=FALSE   default FALSE
  Not for general use, this option is intended for debugging. Users of VistARad, the
  diagnostic quality Radiologist Imaging Workstation, can enable test mode. In test
  mode the data being sent from VistA to VistARad software can be viewed.

MUSE Enabled=TRUE   default FALSE

  MUSE Demo Mode=FALSE   default FALSE
  Not for general use. This setting is for Demonstrations given by the Imaging
Implementation team.

  Allow Image SaveAS=FALSE   default FALSE

Not for general use. This setting is for saving images to the local drive, to be used in
demonstrations of the Imaging system.

  Fake Name=Fake,PatientName   default 'Fake,PatientName'

Allow Fake Name=TRUE   default FALSE
  The Fake Name will be used on all Imaging Display windows and reports from
  VistA. Only Textual changes are made. Images that have the patient name visible
  will still have the patient name visible in this type of demo.
  This is a way of demonstrating the Imaging system to an audience using a Real
  Patient. This is not for general use.
  Note: when displaying images using Fake,PatientName, the Images are the Real
  images for the patient, and if the patient's name is on the image, it will be visible.
  This mode of Demonstration should be used with caution. The Images to be
  shown in a demonstration of this type should be viewed before hand to make sure
  the patient name is not visible.

Workstation Timeout minutes=120   default 0
  This setting if other than 0 (zero) will override the Imaging application timeout
  fields in the Imaging Site Parameters File. It will apply to all Imaging applications
  run on this workstation. i.e. Display, Capture, VistARad.
  If this setting is 0 (zero) then the timeouts that are entered in the Imaging Site
Parameters File will apply.

[Workstation Settings]   selectable/changeable at runtime YES

Use Alternate Video Viewer=FALSE   default FALSE
  VistA Imaging will display Video files (only video files of type AVI) in a custom
  Video Window. An Alternate viewer can be selected. Set this value to TRUE and

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video files will display in the default video viewer defined for the workstation. (see "Alternate Video Viewer") If no alternate viewer has been defined for this workstation then the video file will display in the default viewer defined for the Windows operating system. This setting is changeable from the Video File Options window.

Alternate Video Viewer=""   default ""
Select the menu option 'System Manager|Set Workstation's Alternate Video Viewer' to define a specific video viewer for this workstation.

Play Video File=FALSE   default FALSE
Setting this value to TRUE will automatically play the video file when selected. This setting is changeable from the Video File Options window.

VistA Imaging Capture Application:
The following settings apply to VistA Imaging Capture.:

[Workstation Settings]   selectable/changeable at runtime YES

Import List height=123
The last height of the 'Import file list' is saved. The height can be changed by 'dragging' the separator bar directly above the Import list.

LongDesc height=80
The last height of the 'Long Description' field is saved. The height can be changed by 'dragging' the separator bar directly above the Long description field.

Config Toolbar=TRUE   default TRUE
The visible state of the Configuration Toolbar is saved. Select (check) the Capture menu option 'Options| Saved Configurations Toolbar' to display the toolbar.

Settings Toolbar=TRUE   default TRUE
The visible state of the Settings Toolbar is saved. Select (check) the Capture menu option 'Options|Current Settings Toolbar' to display the Settings Toolbar.

Large Slider Controls=TRUE   default TRUE
The size of the slider controls is saved. Slider controls are used to change the Brightness, Contrast and Zoom values for the Image. Select (check) the Capture menu option 'Options|Large Slider controls' to change the size.

Close Quick Setting=TRUE   default TRUE

Capture Hints=TRUE   default TRUE
Select (check) the Capture menu option 'Options| Show Hints' to have hints display when the mouse is above a control. This value is saved.

Capture Confirmation=TRUE   default TRUE
Select (check) the Capture menu option 'Options| Show Confirmation messages' to activate the confirmation window function. When active, a confirmation window will be displayed before images are saved to VistA.

Capture Maximized=TRUE   default FALSE
This setting is saved when the Capture application is closed. If the Capture window was maximized when it was closed, it will be maximized when it is started again.

Data Entry Width=300
   The width of the 'Data Entry panel' is saved.

ToolBarPosition=TOP   default TOP
        In the Capture Application, the Image manipulation toolbar can be repositioned. The last position is saved. To reposition, right-click the toolbar to activate the shortcut menu and select from Top, Left or Right.

Utilities Menu

This section explains the Utilities Menu options located in the Menu Bar.

Utilities	Image	Help
Controlled Image		
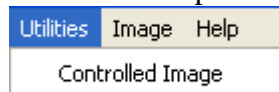
Controlled Image

Controlled Image:
This section explains the Controlled Image option under the utilities Menu. Below is an explanation of Controlled Image as well as how to capture controlled images using the Utilities Menu..

Shown below is the default abstract for Controlled Image

Controlled Image #12 [SLC] CRISIS NOTE 04/13/2(	This abstract is displayed when an Image is marked as 'Controlled' A controlled image won't display in the Abstracts window. But will display normally when selected. This gives the Physician a visual indication that there is something sensitive about the Image.

The Controlled Image field can be used to specify that the image contains graphics or data of a sensitive nature. The Display Client gives the user a visual indication through the use of icons and abstracts that the image is controlled.

The Controlled Image property gives the site the opportunity of marking an Image as controlled. In the image list and tree view controls of the Imaging Display Client, controlled images will have an icon displayed in the first column that distinguishes it as controlled. The Abstract for a controlled image will not be shown. Instead of the abstract, a bitmap signifying that this image is controlled will be shown. When the image is opened, it will display as always. The controlled value can be changed for an image in the Image Index Edit window. Users with the Security Key 'MAG EDIT' will have access to the Index Edit window.

Setting the 'Controlled' Image property

VistA Imaging Capture :

Capturing Single Image

In VistA Imaging Capture, when you are capturing a single image, before you click the 'Capture' button, select the menu option 'Utilities' | 'Controlled Image'. The phrase 'Controlled Image' will be displayed to the left of the Capture Button as a visual indication that the image about to be captured will be flagged as controlled.

Capturing Group using Batch Capture

In VistA Imaging Capture, when you are capturing a batch of images as an Image Group, before you <click> the 'Capture' button, select the menu option 'Utilities' | 'Controlled Image'. The phrase 'Controlled Image' will be displayed to the left of the Capture Button as a visual indication that the Image Group about to be captured will be flagged as controlled.

Capturing Group   (not using batch capture)

In VistA Imaging Capture, when you are capturing multiple images as an Image Group, before you <click> the 'Capture' button, select the menu option 'Utilities' | 'Controlled Image'. The phrase 'Controlled Image' will be displayed to the left of the Capture Button as a visual indication that the Image about to be captured will be flagged as controlled. This gives a way to mark only certain images of the Group as 'Controlled'.

Image Menu

Image Menu has options for Image manipulation. See below for explanation of the available options.
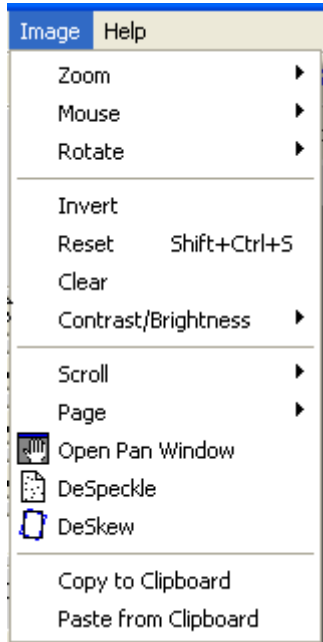
Zoom
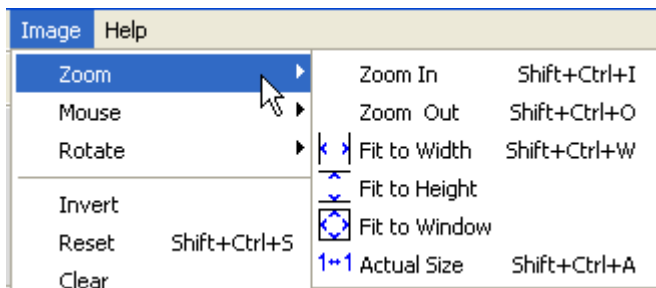
Zoom sub-menu has options to size/re-size an image.

Click	To…
Zoom In	to zoom in to An image
Zoom Out	to zoom out of an image
Fit to Width	to fit the image to the window width (horizontal)
Fit to Height	to fit the image to the height of the window (vertical)
Fit to Window	to fit image to the entire window (vertical and horizontal)
Actual Size	to show image in its original size

Mouse

Mouse sub-menu has editing options available to size/re-size an image.

Click   To…
Pan   to pan image by dragging mouse
Magnify   to magnify an image where the mouse is clicked
Zoom   to zoom into an area of the image selected with the mouse
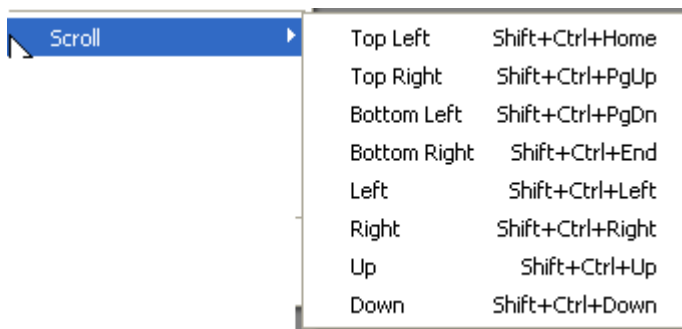Pointer   to go back to mouse pointer

Rotate
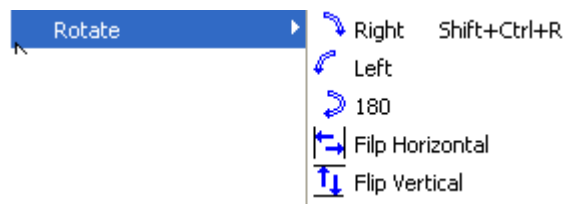
Rotate sub-menu has options to change image orientation.

Click   To…
Right   to rotate an image to the right
Left   to rotate an image to the left
180   to rotate an image 180 degrees
Flip Horizontal   to flip an image horizontally
Flip Vertical   to flip an image vertically
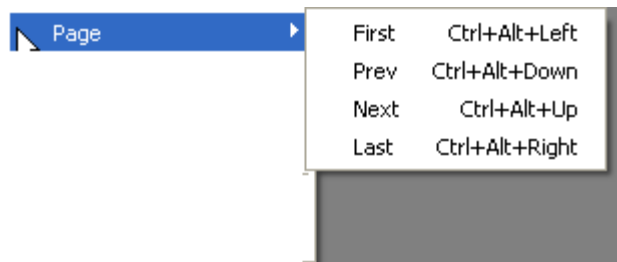
Scroll

Scroll sub-menu has options to scroll through the image.

Click   To…

Top Left	scroll to the top left corner of the image
Top Right	scroll to the top right corner of the image
Bottom Left	scroll to the bottom left corner of the image
Bottom Right	scroll to the bottom right corner of the image
Left	scroll to the left
Right	scroll to the right
Up	scroll up
Down	scroll down

Page

Page sub-menu has options to scroll through multiple pages, if available

Click	To…
First	go to first image in study
Prev	go to previous image
Next	go to next image
Last	go to last image

Reset

Resets image to its original size.
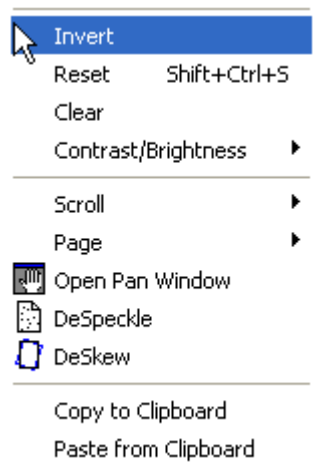
Clear

Clears image from the capture window.

Contrast
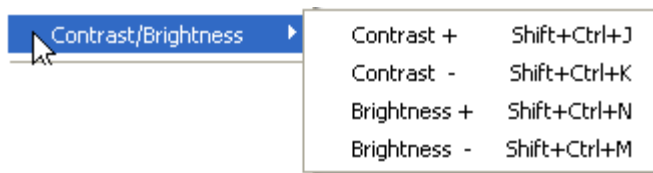
Contrast sub-menu has options to adjust image contrast and brightness.

Click	To…
Contrast +	increase image contrast
Contrast -	decrease image contrast
Brightness +	increase image contrast

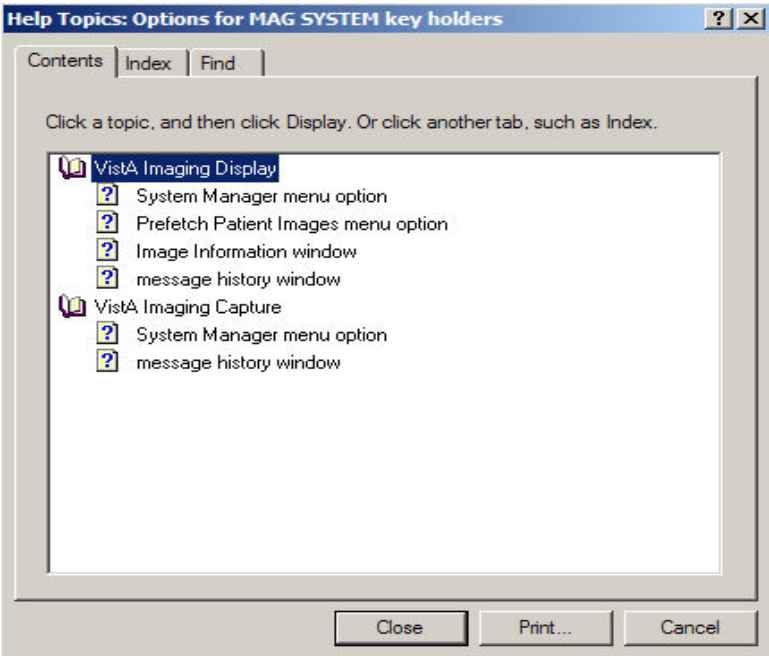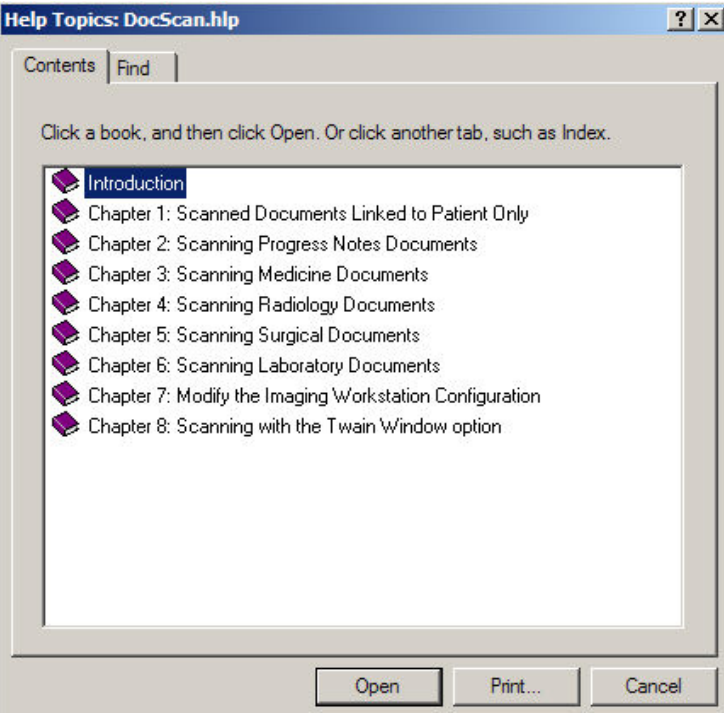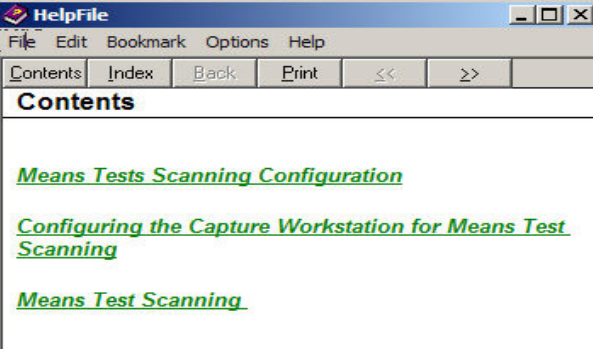Brightness -   decrease image contrast

Other options:

Invert   invert an image
Reset   reset image back to original
Clear   clears image from the screen
Open Pan Window   opens a pan image window. Pan window indicates the area **within**
the image that is being examined.
DeSpeckle   despeckle image.
DeSkew   deskew image - straighten images that have been captured at an
angle.
Copy to Clipboard   copy image
Paste from Clipboard   paste image
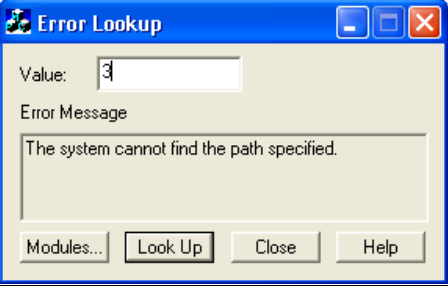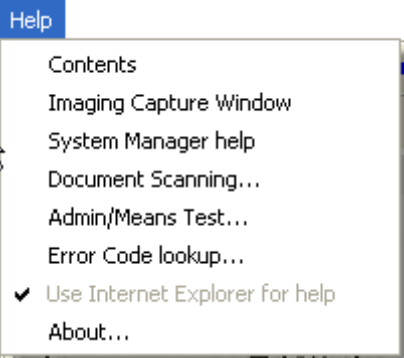
Help Menu

This section explains the Help Menu options in VistA Imaging Capture.
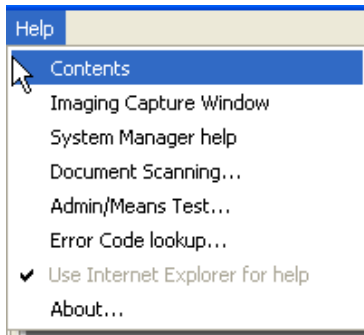
Contents	Opens the contents page of On-Line help for VistA Imaging.
Imaging Capture Window	Opens the Imaging Capture Window page of On-Line Help.
System Manager help	Opens the 'Options for MAG SYSTEM key holders help topics.

Document Scanning	Displays 'DocScan.hlp' help file.
Admin/Means Test	Displays the Admin/Means Test Help file

Error Code Lookup	Opens the 'Error Lookup' window. A short description will be displayed for the error code entered.
Use Internet Explorer for help	Launches the Internet Explorer to open help files
About	Displays VistA Imaging version information.

Security Keys

Note: If the 'CAPTURE KEYS' site parameter has been initialized, (set to True), the following keys will need to be assigned appropriately.

| Capture-related Security Keys	
MAG CAPTURE	Allow capture of clinical images without a VistA Package association (i.e. 'Patient Only: Clinical' on the Imaging Capture configuration window).
MAG NOTE EFILE	User can electronically file notes without an electronic signature from the Imaging Capture workstation.
MAGCAP ADMIN	Allow capture of administrative images to image association 'Patient Only : Administrative'
MAGCAP CP	Allow capture of Clinical Procedure images.
MAGCAP LAB	User can capture Laboratory images from the Imaging Capture workstation.
MAGCAP MED C	User can capture Cardiology images from the Imaging Capture workstation.
MAGCAP MED G	User can capture GI images from the Imaging Capture workstation.
MAGCAP MED GEN	User can capture Generic Medicine images from the Imaging Capture workstation.
MAGCAP MED H	User can capture Hematology images from the Imaging Capture workstation.
MAGCAP MED HI	User can capture Internal Medicine / Hematology images from the Imaging Capture workstation.
MAGCAP MED I	User can capture Internal Medicine images from the Imaging Capture workstation.
MAGCAP MED N	User can capture Neurology images from the Imaging Capture workstation.
MAGCAP MED P	User can capture Pulmonary / Endoscopy images from the Imaging Capture workstation.
MAGCAP MED PF	User can capture Pulmonary Function Test images from the Imaging Capture workstation.
MAGCAP MED R	User can capture Rheumatology images from the Imaging Capture workstation.
MAGCAP MED Z	User can capture Consult images from the Imaging Capture workstation.

| Capture-related Security Keys	
MAGCAP PHOTOID	User can capture Photo ID images from the Imaging Capture workstation.
MAGCAP RAD	User can capture Radiology images from the Imaging Capture workstation.
MAGCAP SUR	User can capture Surgery images from the Imaging Capture workstation.
MAGCAP TIU	User can capture TIU images from the Imaging Capture workstation.
MAGCAP TRC	User can capture images associated with a TelerReader Consult from the Imaging Capture workstation.

Appendix A: Supplemental Logon Screens

When logging in to Clinical Capture you may be confronted with two screens that are not described in the *Logging In & Starting Clinical Capture* section of this document. In this Appendix an alternate logon method is described.

To start Clinical Capture as a standalone applications from the workstation perform the following steps.

1. Double-click the Capture shortcut 📷 on the Windows desktop.
   If a shortcut is not available, click: **start**, then choose Programs | VistA Imaging Programs | VistA Imaging Clinical Capture 32-bit.

2. Select the server you have been instructed to log in to from the Connect To window. If the server is not listed in the drop down list then select | New| and enter the Address and Port Number in to the window. Your site administrator will have the server information or call the help desk.
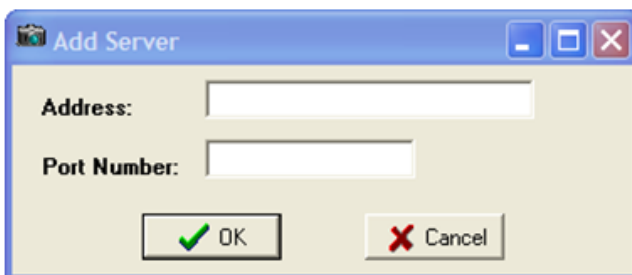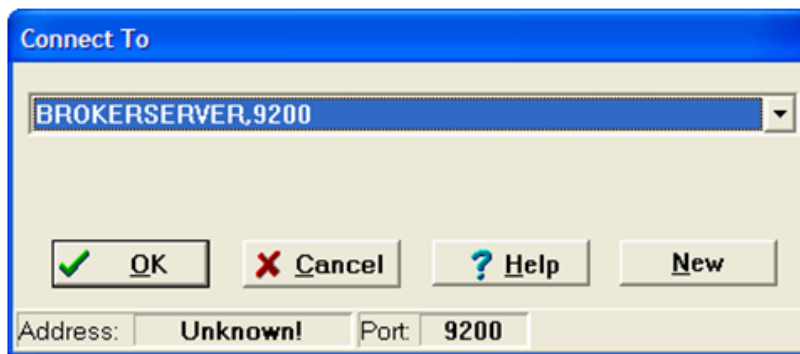
3. Enter your Access and Verify codes. Screenshot included below.
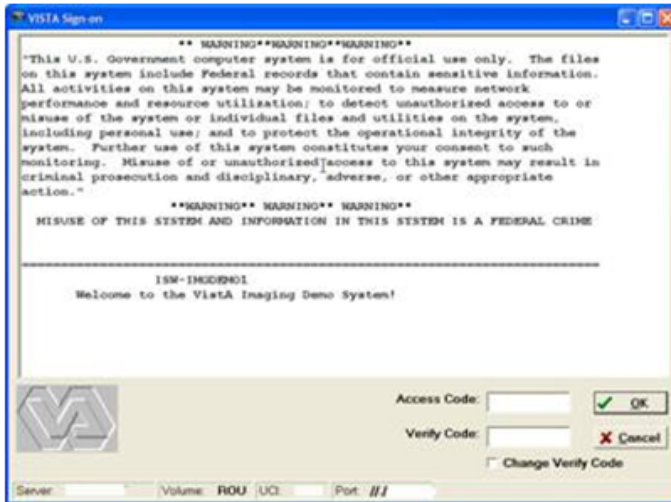
4. Select your Division in the window that appears in Figure 39 and click | OK |.

5. The VistA Imaging Capture window appears as shown below.