



Acquiring New Images into the Metron Database



Click F11 on your keyboard for full screen display!

Dependent on your screen size, the menu buttons on the Database Browser screen may appear in one or two rows.



Acquiring New Images into the Metron Database

This online training session will provide you with the details for
"Acquiring New Images into the Metron Database".



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This online training session will provide you with the details for "Acquiring New Images into the Metron Database".

The Training Session Objectives:

Provides information on how to:

- 1. Acquire an image into a study**
2. Navigate the "icons" section in "Single Image View Mode"

(Video Length: 9 minutes)



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Acquiring New Images into the Metron Database



With Metron, you will always start in the 'Database Browser' screen where thumbnails of all the images in the currently selected study are displayed on the screen.



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A study is the group of images for a particular owner, animal and date combination. Metron always starts at the study you were viewing when you last used Metron.



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Acquiring New Images into the Metron Database

The screenshot displays the Metron-DVM software interface. The main window shows a grid of X-ray images with labels such as 'R Neck Lateral', 'RF Lower Limb Lateral', 'RHP Pelvis DAP', 'LF Lower Limb Lateral', 'R Neck Lateral', 'Sample Report', '1-Dig-2-Small-Horizontal', 'L Abdomen Lateral', 'LH Stifle Lateral-TTA', and 'RHP Pelvis VD-DI'. A 'Metron Report' window is also visible. On the right, the 'DATABASE BROWSER (Metron-DVM 7.04)' panel is open, showing options to 'Browse & Acquire' and 'Collection (0 items)'. It includes search filters for Owner (Daniel Smith), Animal (Snickers), and Date (18-Jan-2013). Below these are buttons for 'Add New Image, Video Clip, Form, or Report', including 'Image File(s)...', 'USB Video...', 'Other Sources...', 'Add Form...', 'Add Report...', and 'DICOM O/R...'. At the bottom of the panel are 'Select Items' buttons (All, Next Region, None) and a grid of action buttons (Multi View, Delete, Export, Print, Stitch Images, Burn CD/DVD, Send Images, Receive Images, Cut, Copy, Paste (0 items)). A 'WL' button and a 'Double-click a thumbnail to view' instruction are also present.

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Acquiring New Images into the Metron Database

If you are acquiring new images or adding to an existing study, select the owner, animal, and date. The date will default to today's date.

DATABASE BROWSER (Metron-DVM 7.04)

Search: Default

Browse & Acquire | Collection (0 items)

Studies with new images: ☐ Day ☐ Week ☐ Month ☒ All

Owner:

Animal:

Date:

Add New Image, Video Clip, Form, or Report

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Acquiring New Images into the Metron Database

...you will also need to select a species. Other animal related data can also be entered but is not critical to the acquisition process.

Species: Dog
Breed: --Unknown--
Sex: Male
Neutered: ☒
Date of Birth: 1/31 1/12 1/30

When adding a new animal, in addition to entering the animal name...

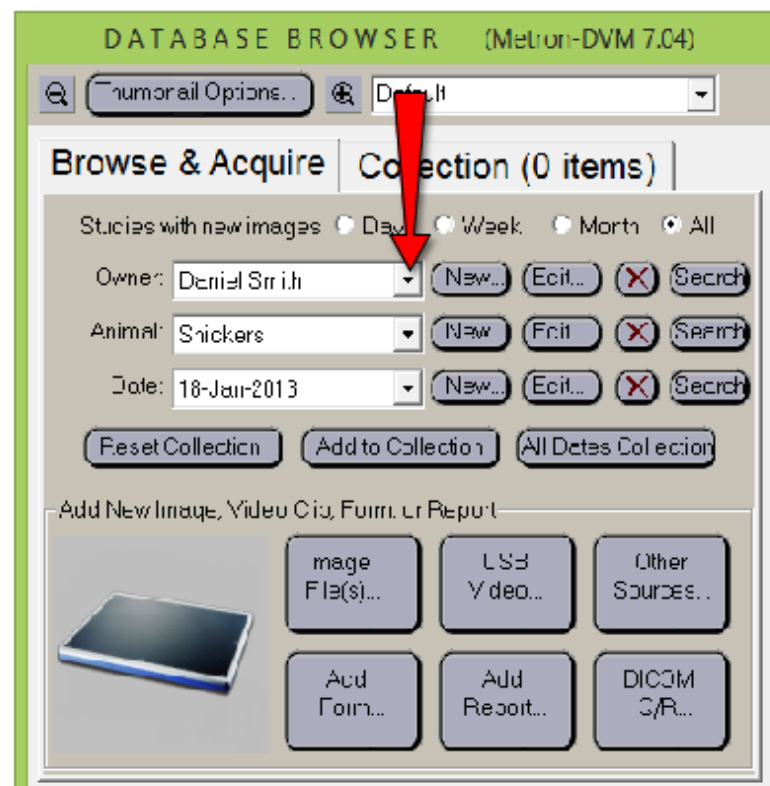
DATABASE BROWSER (Metron-DVM 7.04)
Search: Humoral Options... Default
Browse & Acquire | Collection (0 items)
Studies with new images: Day Week Month All
Owner: Daniel Smith New... Edit... X Search
Animal: Snickers New... Edit... X Search
Add Form... Add Report... DICOM C/R...

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Acquiring New Images into the Metron Database

If acquiring images for an animal that has been imaged before, select the animal by choosing the owner, then the animal by using the pull down arrows.



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Acquiring New Images into the Metron Database

If necessary, click the 'New' button to create a new owner in the database.

DATABASE BROWSER (Metron-DVM 7.04)

Collection (0 items)

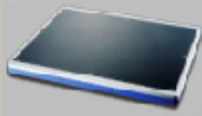
Week ☐ Month ☐ All ☒

Owner: Daniel Smith

Animal: Snickers

Date: 18-Jan-2013

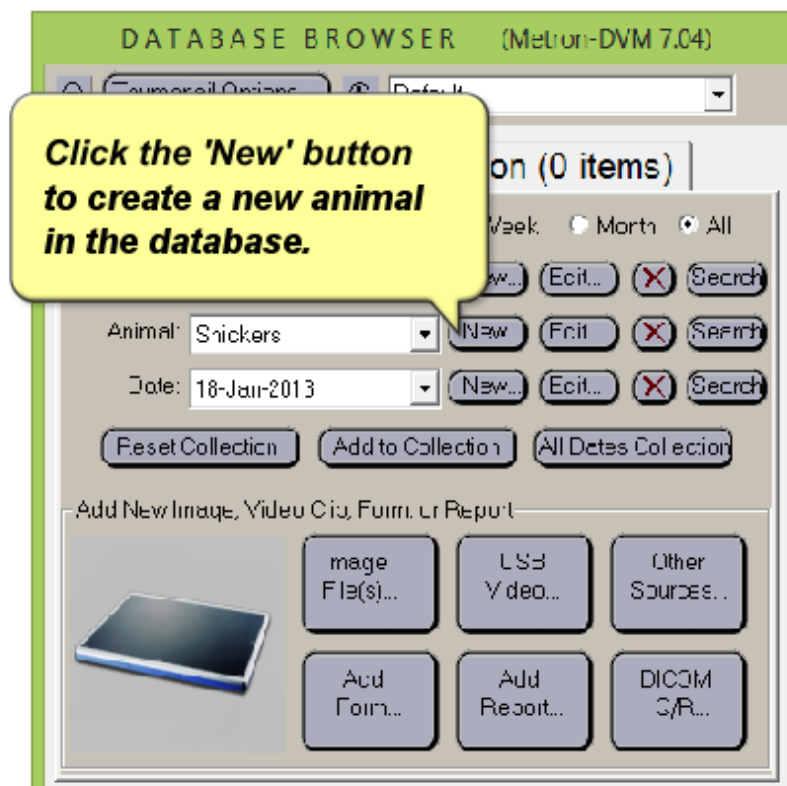
Add New Image, Video Clip, Form, or Report



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Acquiring New Images into the Metron Database



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Acquiring New Images into the Metron Database

You can also create a new date, or if you fail to Metron will create it for you as you enter 'Acquire Mode'.

Note: Acquired Images will be Stored under Today's Date... (5-Jul-2013)

OK

Cancel

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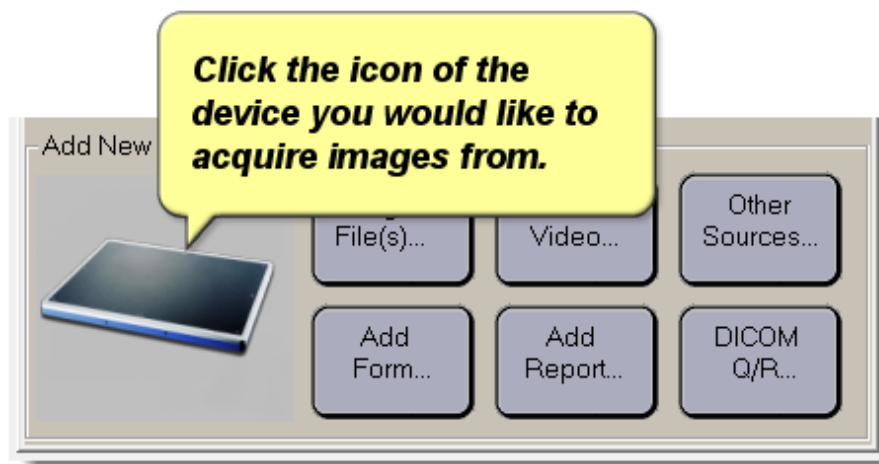
Acquiring New Images into the Metron Database

Depending on how your copy of Metron is configured, the icon(s) in this section of the software screen may be different than this example.



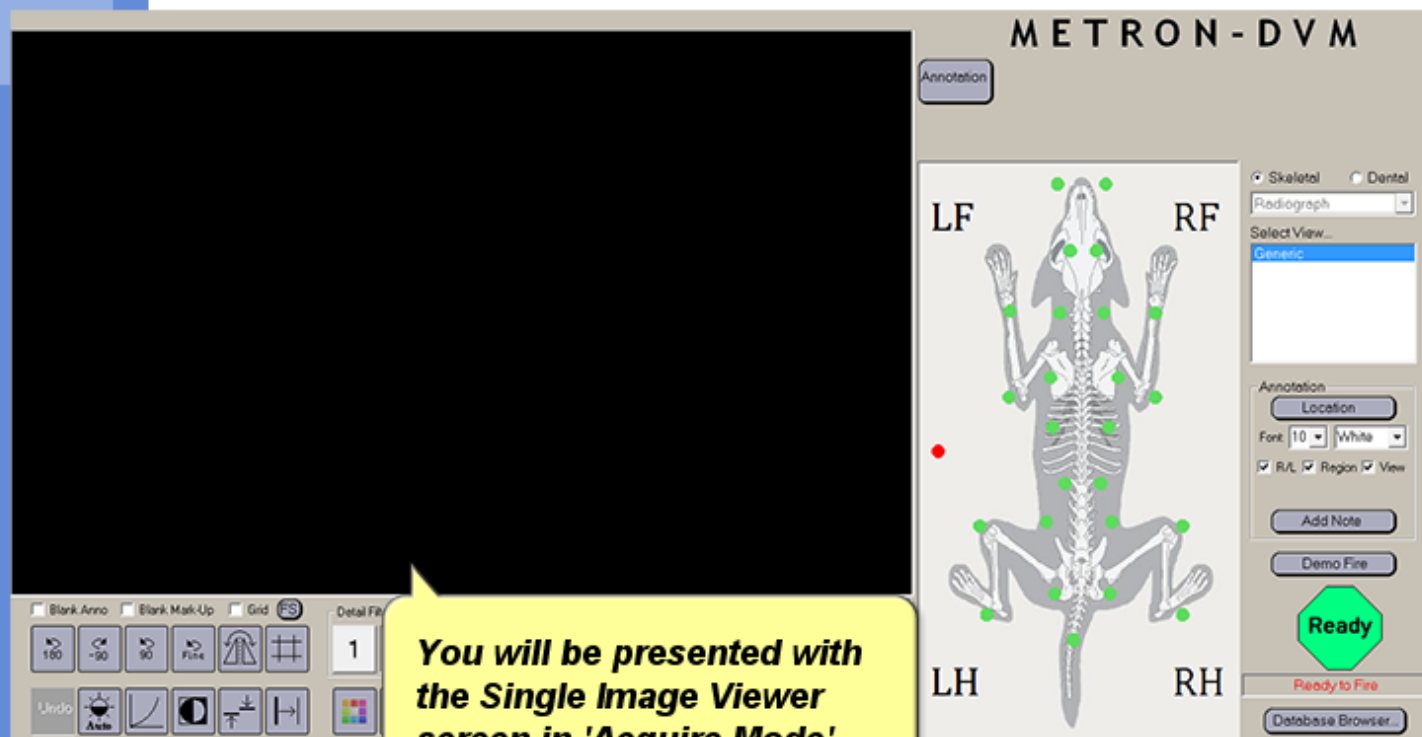
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Acquiring New Images into the Metron Database



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Acquiring New Images into the Metron Database

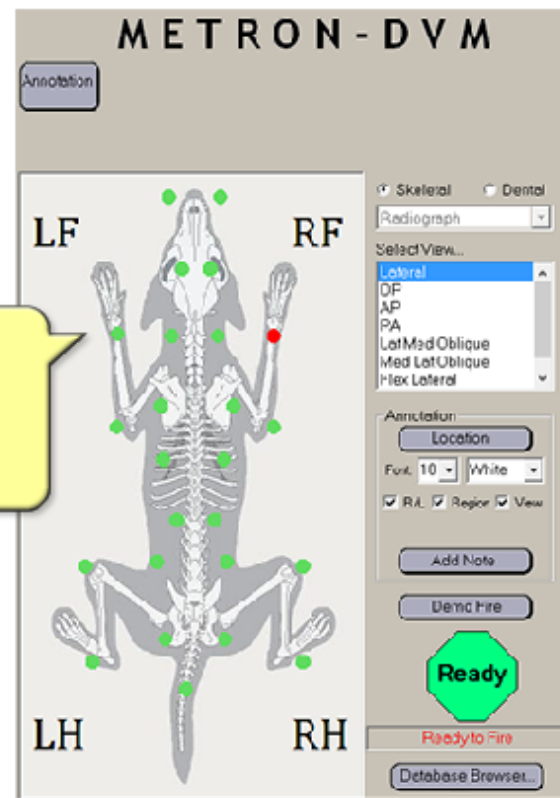


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Acquiring New Images into the Metron Database

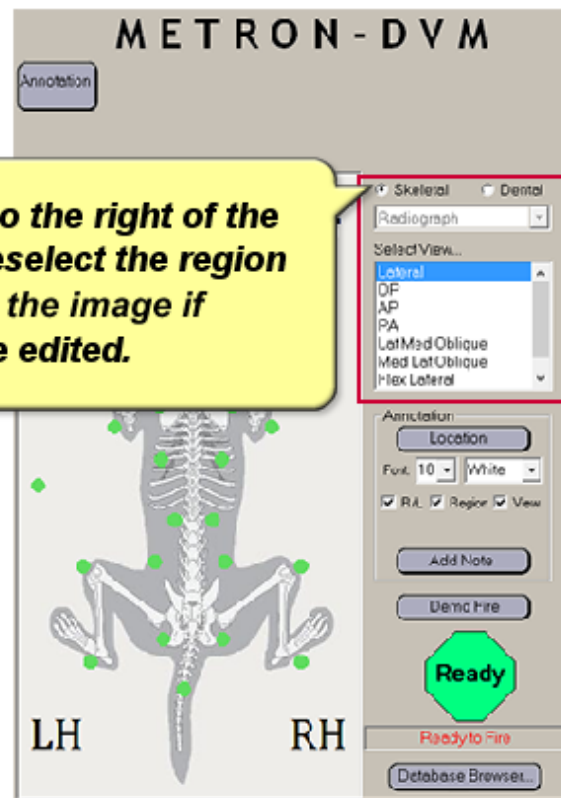
Click on one of the dots on the animal anatomy graphic to indicate the related region of the image.



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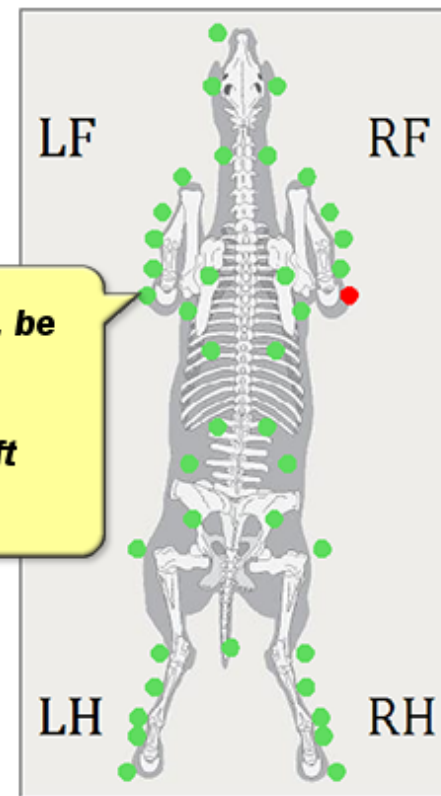
Acquiring New Images into the Metron Database

Select a view from the list to the right of the display. It is also easy to reselect the region and/or view after acquiring the image if these selections need to be edited.



Acquiring New Images into the Metron Database

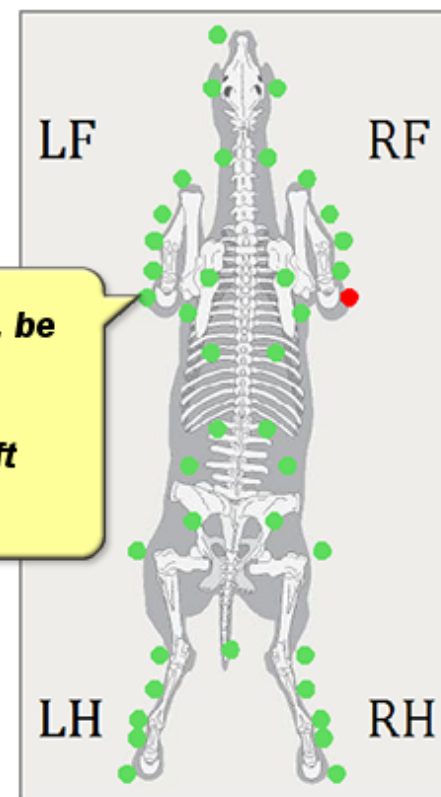
For Equine users, after acquiring a hoof image, be sure that the hoof is pointed in the correct direction. The toe of the right hoof should be pointing towards the right and the toe of the left hoof should be pointing towards the left.



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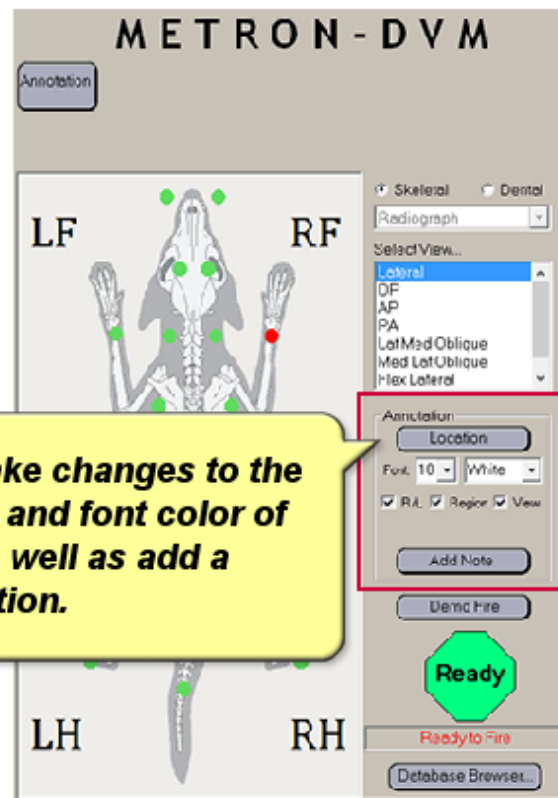
Acquiring New Images into the Metron Database

For Equine users, after acquiring a hoof image, be sure that the hoof is pointed in the correct direction. The toe of the right hoof should be pointing towards the right and the toe of the left hoof should be pointing towards the left.



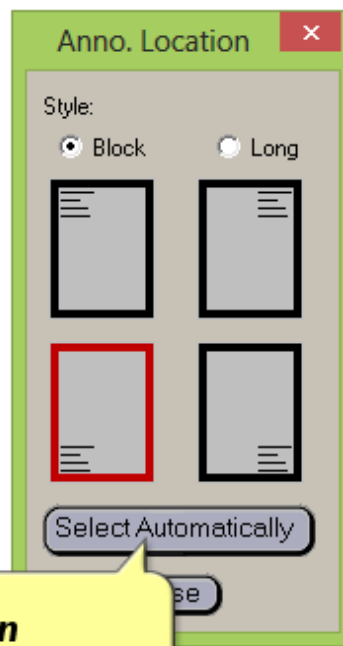
Acquiring New Images into the Metron Database

You are able to make changes to the location, font size, and font color of the annotations as well as add a note to the annotation.

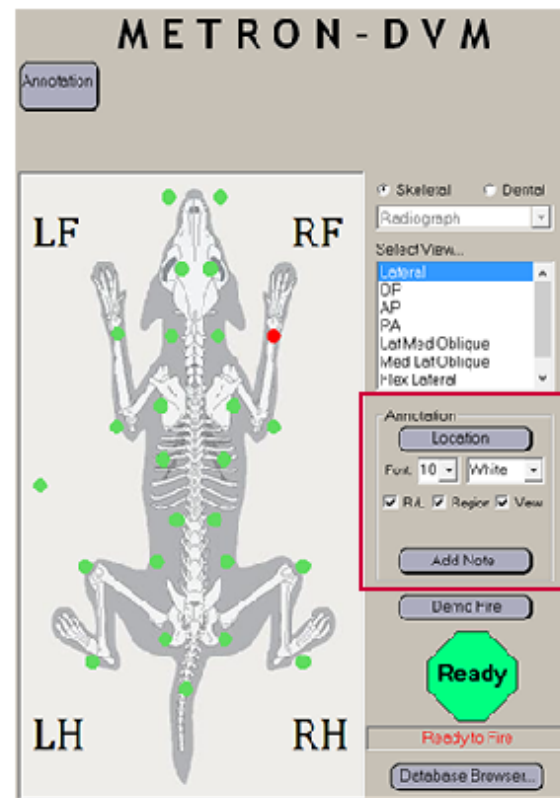


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Acquiring New Images into the Metron Database



When defining the annotation location, you are also able to set it to automatically select the "best" location based on your image.

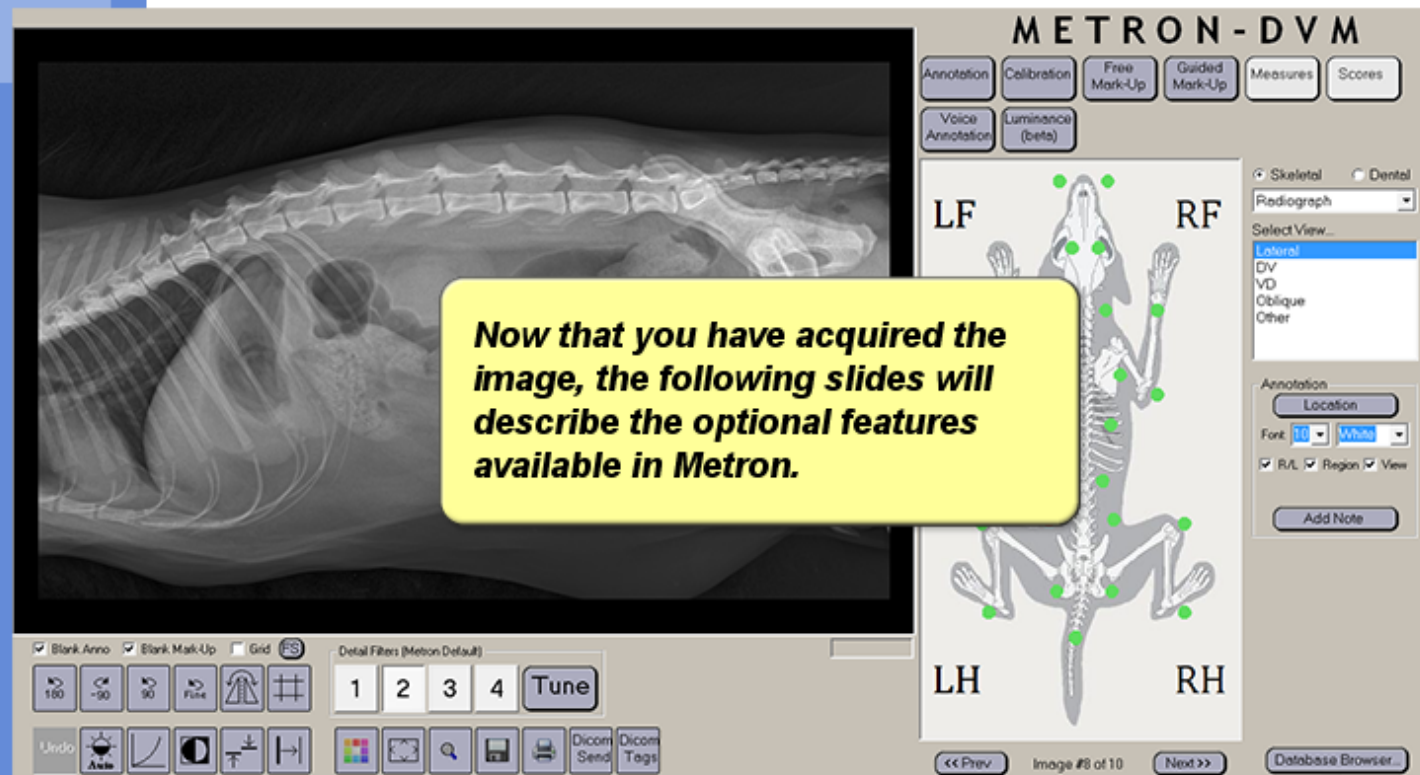


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Acquiring New Images into the Metron Database

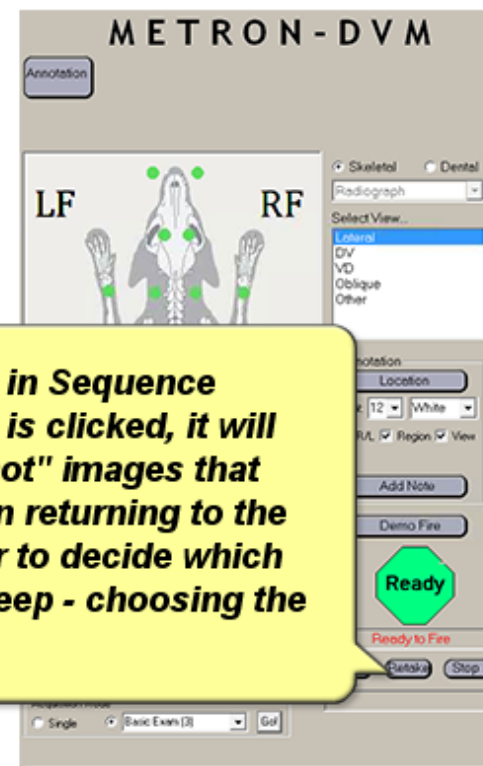


Acquiring New Images into the Metron Database



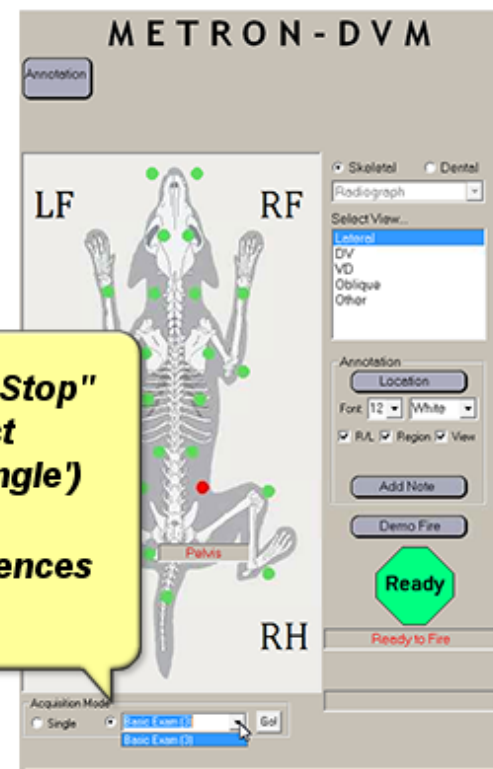
Acquiring New Images into the Metron Database

When acquiring radiographs in Sequence mode, if the "Retake" button is clicked, it will retain the previous "same shot" images that were already acquired. When returning to the study, this will allow the user to decide which of the retakes they want to keep - choosing the best diagnostic image(s).



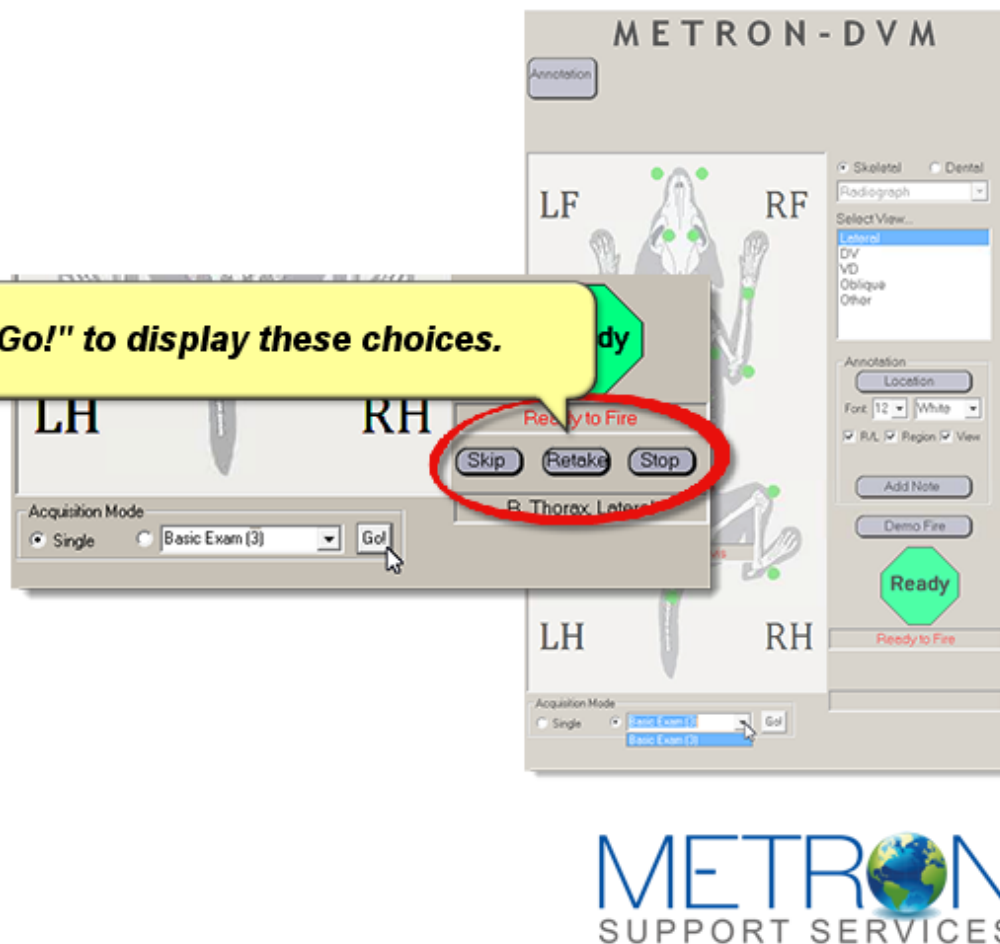
Acquiring New Images into the Metron Database

To display the "Skip - Retake - Stop" buttons in Acquire Mode, select Sequence Mode (instead of 'Single') in the Acquisition Mode box. Choose from the defined Sequences (e.g. "Basic Exam (3)")...



Acquiring New Images into the Metron Database

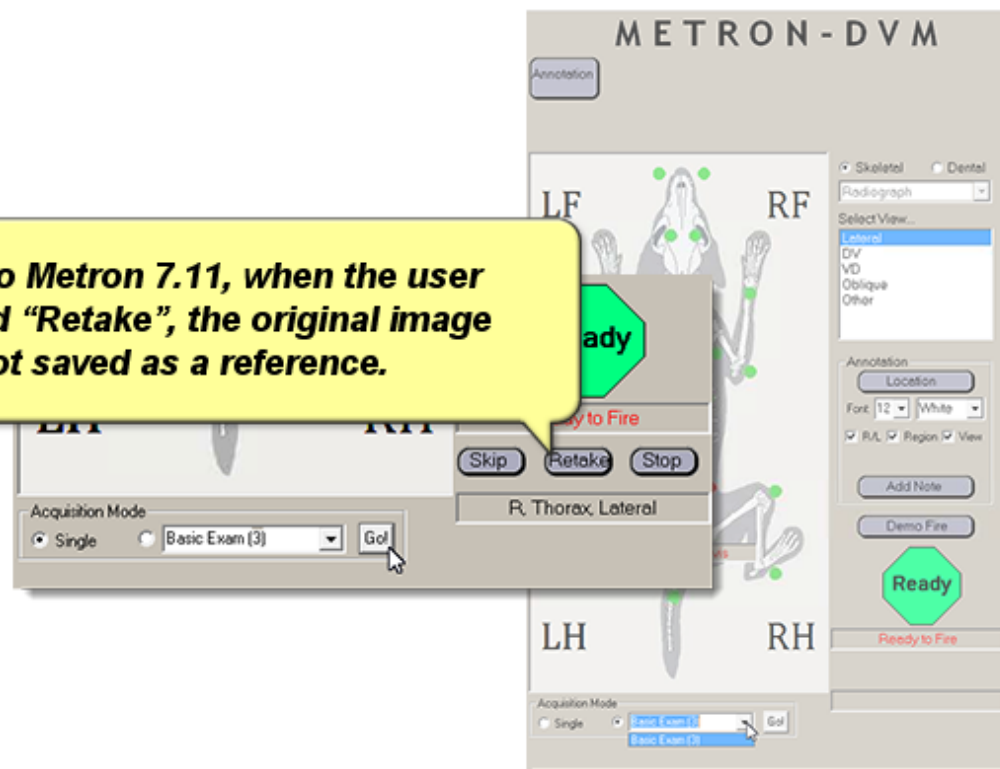
...and click "Go!" to display these choices.



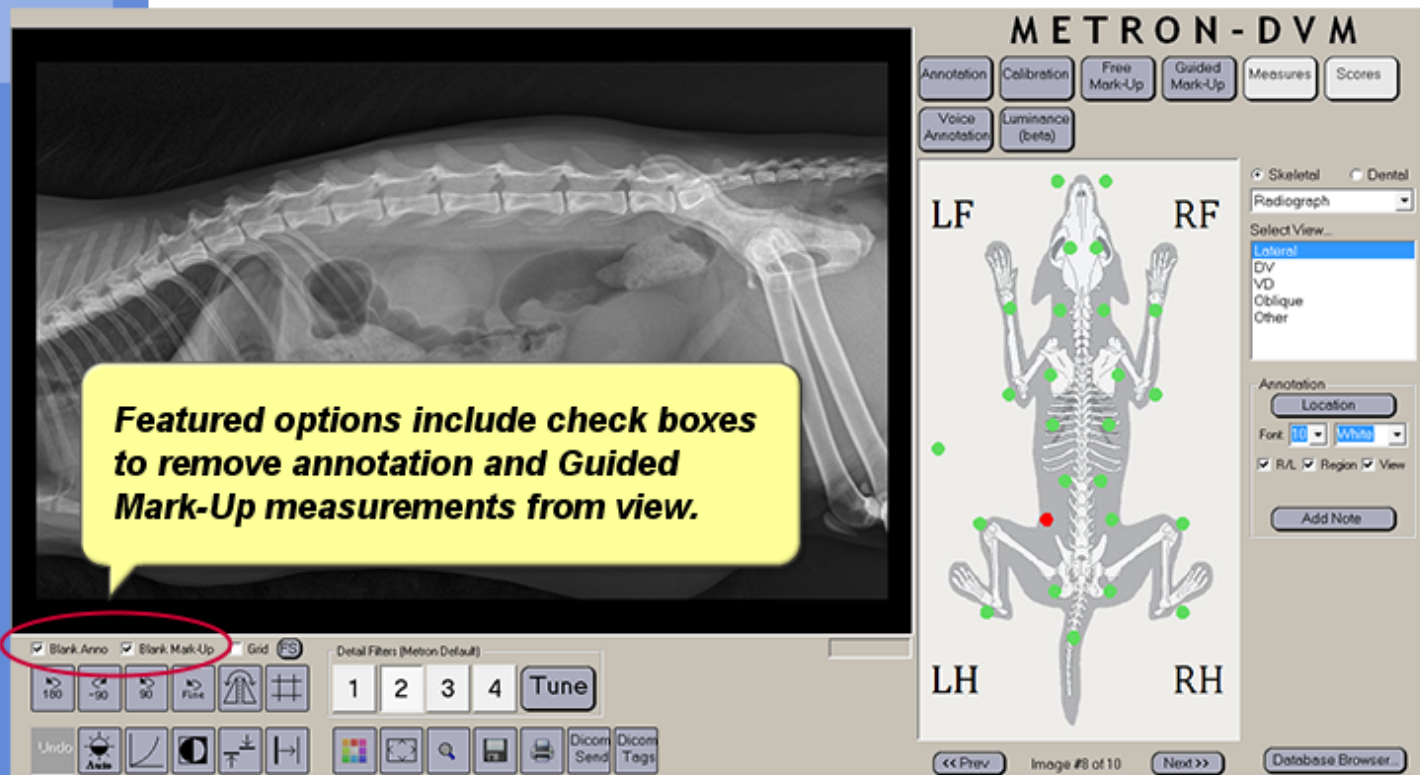
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Acquiring New Images into the Metron Database

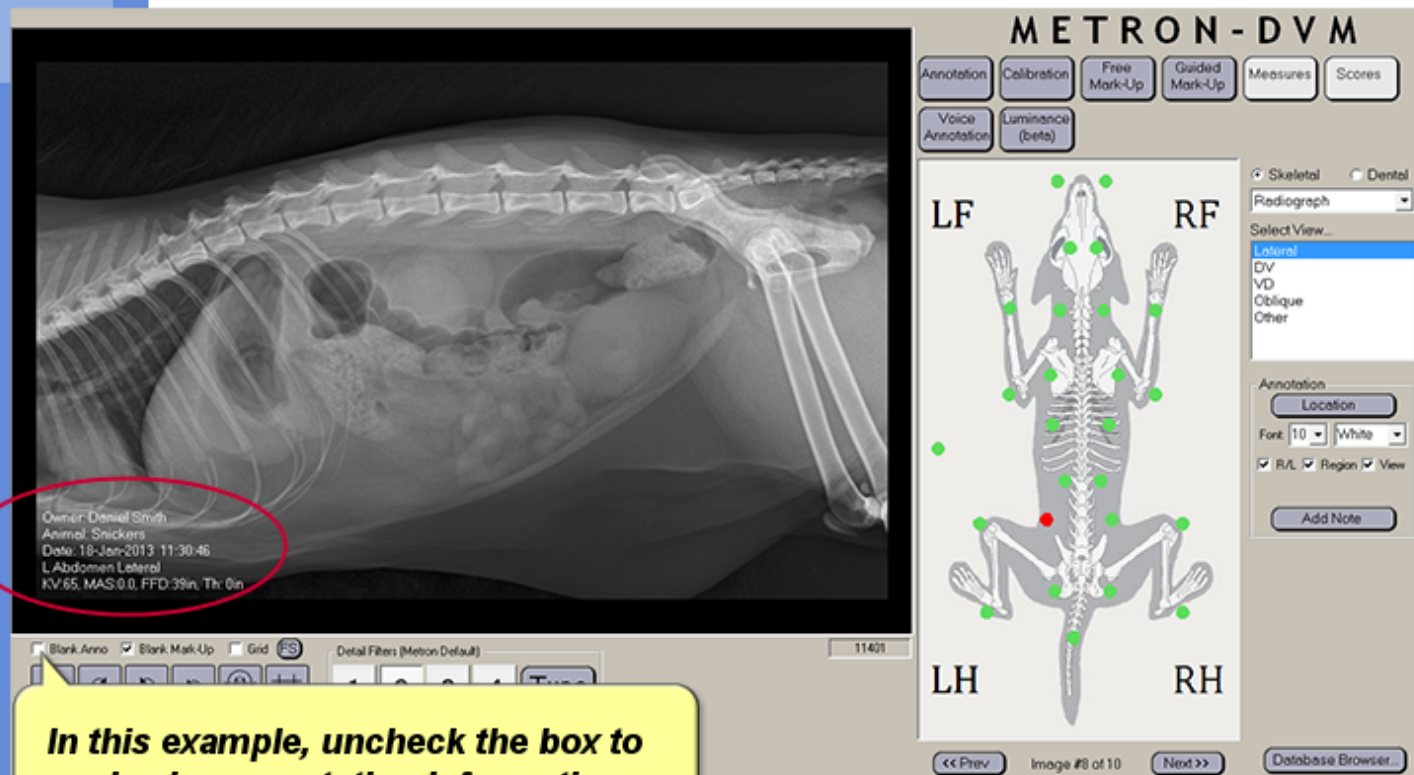
Prior to Metron 7.11, when the user clicked "Retake", the original image was not saved as a reference.



Acquiring New Images into the Metron Database



Acquiring New Images into the Metron Database



Acquiring New Images into the Metron Database

METRON - DVM

Annotation Calibration Free Mark-Up Guided Mark-Up Measures Scores
Voice Annotation Luminance (beta)

LF RF
LH RH

Grid Overlay Control

Spacing: 1.00 Update Inch
Thickness: 1 Color
☐ Solid ☒ Dashed
Shift X:
Shift Y:
Orient:
Zero Close

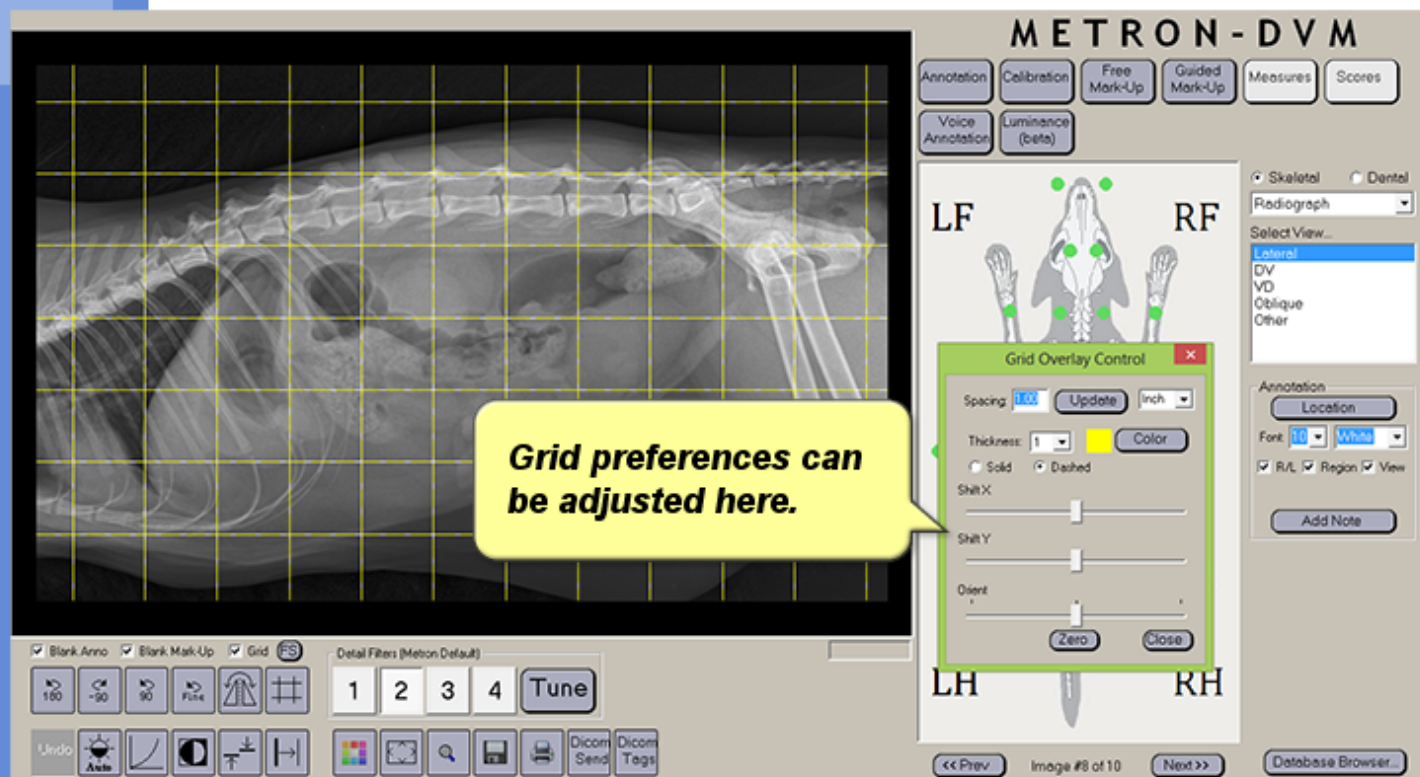
Annotation
Location
Font: 10 White
☒ R/L ☒ Region ☒ View
Add Note

Blank Anno Blank Mark-Up Grid
Detail Filters (Metron Default)
1 2 3 4 Tune
Undo Auto Rotate Flip Crop Zoom Pan Print Dicom Send Dicom Tags

Image #8 of 10 Database Browser...

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Acquiring New Images into the Metron Database



Acquiring New Images into the Metron Database

The screenshot displays the METRON-DVM software interface. On the left, a large window shows a lateral radiograph of a dog's spine. A yellow callout box with the text "Click the 'FS' button to view the image in full screen mode." points to the 'FS' button in the bottom toolbar. The bottom toolbar includes checkboxes for 'Blank Anno', 'Blank Mark-Up', and 'Grid', a 'Detail Filters (Metron Default)' section with buttons for '1', '2', '3', '4', and 'Tune', and various image manipulation icons like 'Undo', 'Auto', 'Crop', 'Rotate', 'Zoom', 'Pan', 'Fit', 'Print', 'Dicom Send', and 'Dicom Tags'. On the right, a smaller window shows a skeletal overlay diagram of a dog with green dots indicating anatomical landmarks. The diagram is labeled 'LF', 'RF', 'LH', and 'RH'. To the right of the diagram is a control panel with buttons for 'Annotation', 'Calibration', 'Free Mark-Up', 'Guided Mark-Up', 'Measures', and 'Scores'. Below these are 'Voice Annotation' and 'Luminance (beta)' buttons. Further down are radio buttons for 'Skeletal' and 'Dental', a 'Radiograph' dropdown menu, and a 'Select View...' dropdown menu with options: 'Lateral', 'DV', 'VD', 'Oblique', and 'Other'. Below the view selection is an 'Annotation' section with a 'Location' button, a 'Font' dropdown set to '10', a 'White' color dropdown, and checkboxes for 'R/L', 'Region', and 'View'. An 'Add Note' button is at the bottom of this section. At the very bottom of the interface are navigation buttons: '<< Prev', 'Image #8 of 10', 'Next >>', and 'Database Browser...'.

METRON - DVM

Annotation Calibration Free Mark-Up Guided Mark-Up Measures Scores

Voice Annotation Luminance (beta)

☒ Skeletal ☐ Dental

Radiograph

Select View...

Lateral DV VD Oblique Other

Annotation

Location

Font: 10 White

☒ R/L ☒ Region ☒ View

Add Note

LF RF LH RH

Click the "FS" button to view the image in full screen mode.

Blank Anno Blank Mark-Up Grid FS Detail Filters (Metron Default)

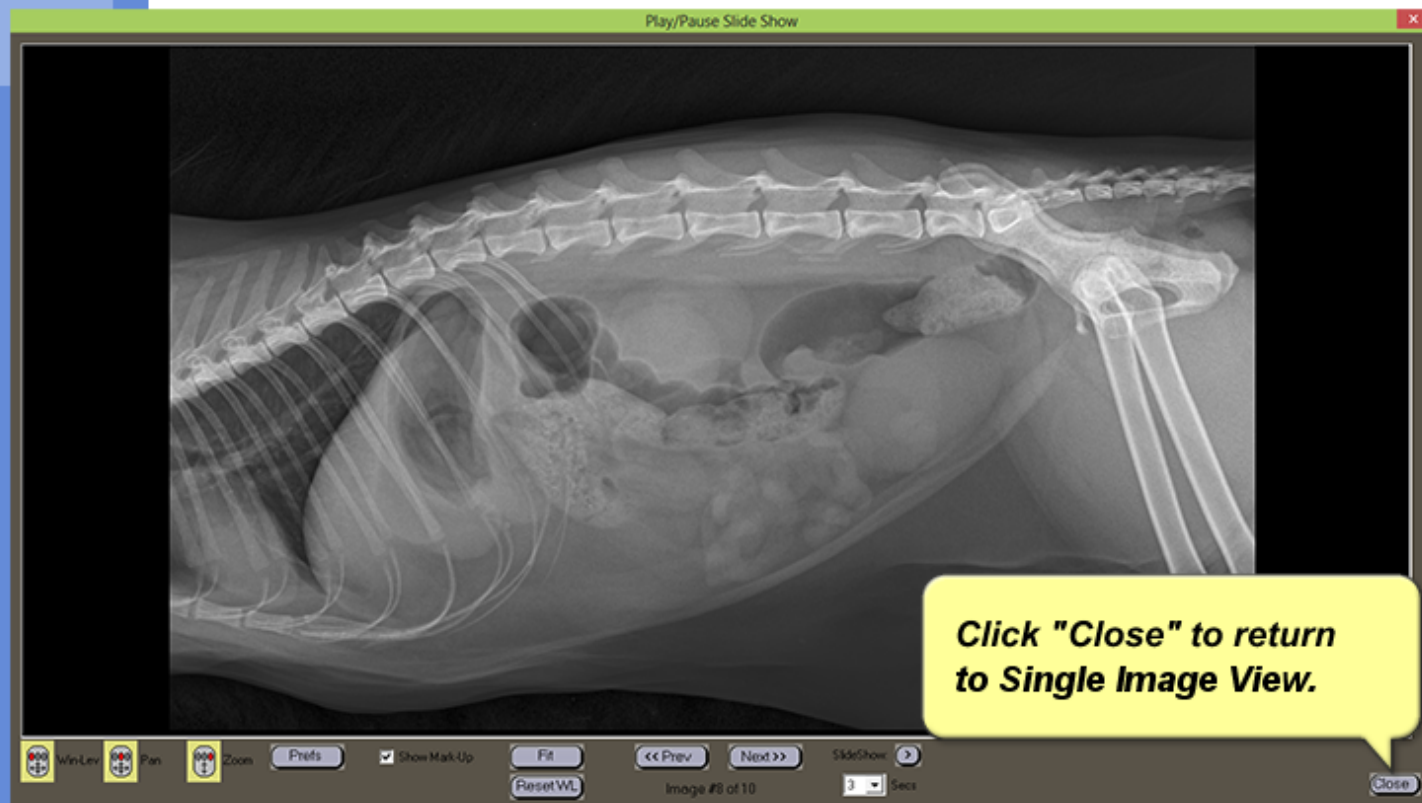
1 2 3 4 Tune

Undo Auto Crop Rotate Zoom Pan Fit Print Dicom Send Dicom Tags

<< Prev Image #8 of 10 Next >> Database Browser...

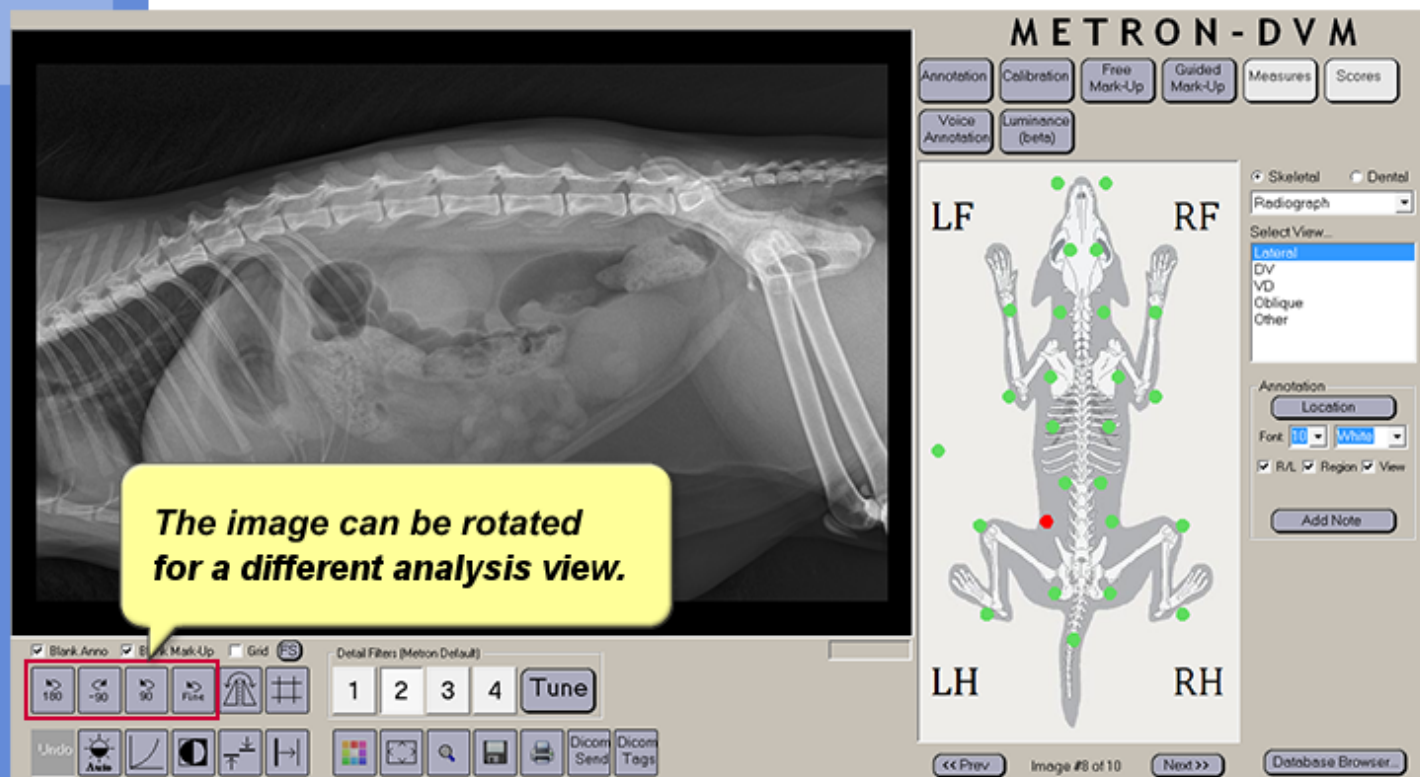
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Acquiring New Images into the Metron Database



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Original Image



2 Points picked creating horizontal line in green

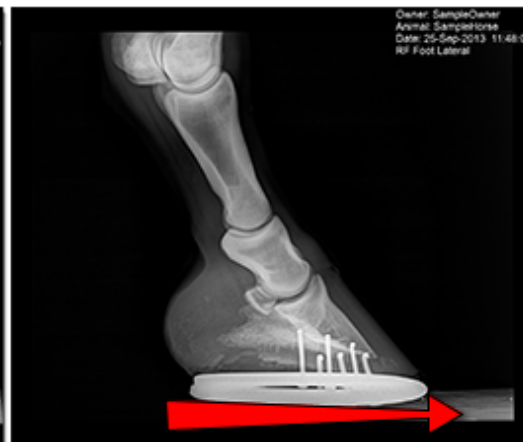


Image rotated for best diagnostic analysis

In this example for the equine practitioner, the user has picked two points defining the horizontal reference line in green.

Note the image (far right) after the rotation is completed. The horse shoe is now horizontal which is preferred for proper diagnostics.

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Acquiring New Images into the Metron Database



Fine Rotation

Degrees:

0.25

1.0

3.0

0.0

1.0

3.0

0.25

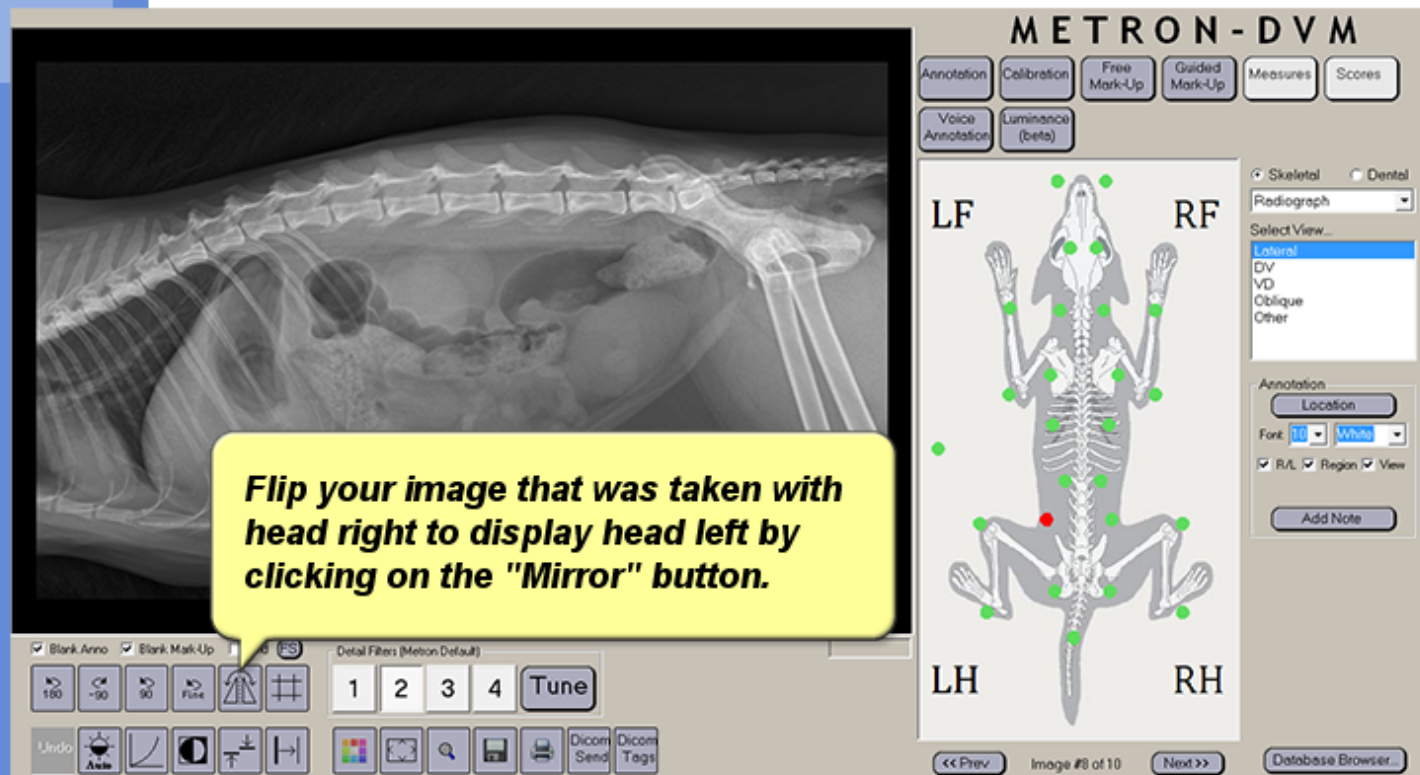
Option: Pick Horizontal Line

Close

To undo the rotation, highlight the degree of Fine Rotation and enter "0". The image returns to its original state.

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Acquiring New Images into the Metron Database



Acquiring New Images into the Metron Database

METRON - DVM

Annotation Calibration Free Mark-Up Guided Mark-Up Measures Scores
Voice Annotation Luminance (beta)

☒ Skeletal ☐ Dental
Radiograph
Select View...
Lateral
DV
VD
Oblique
Other

Annotation
Location
Font: 10 White
☒ R/L ☒ Region ☒ View
Add Note

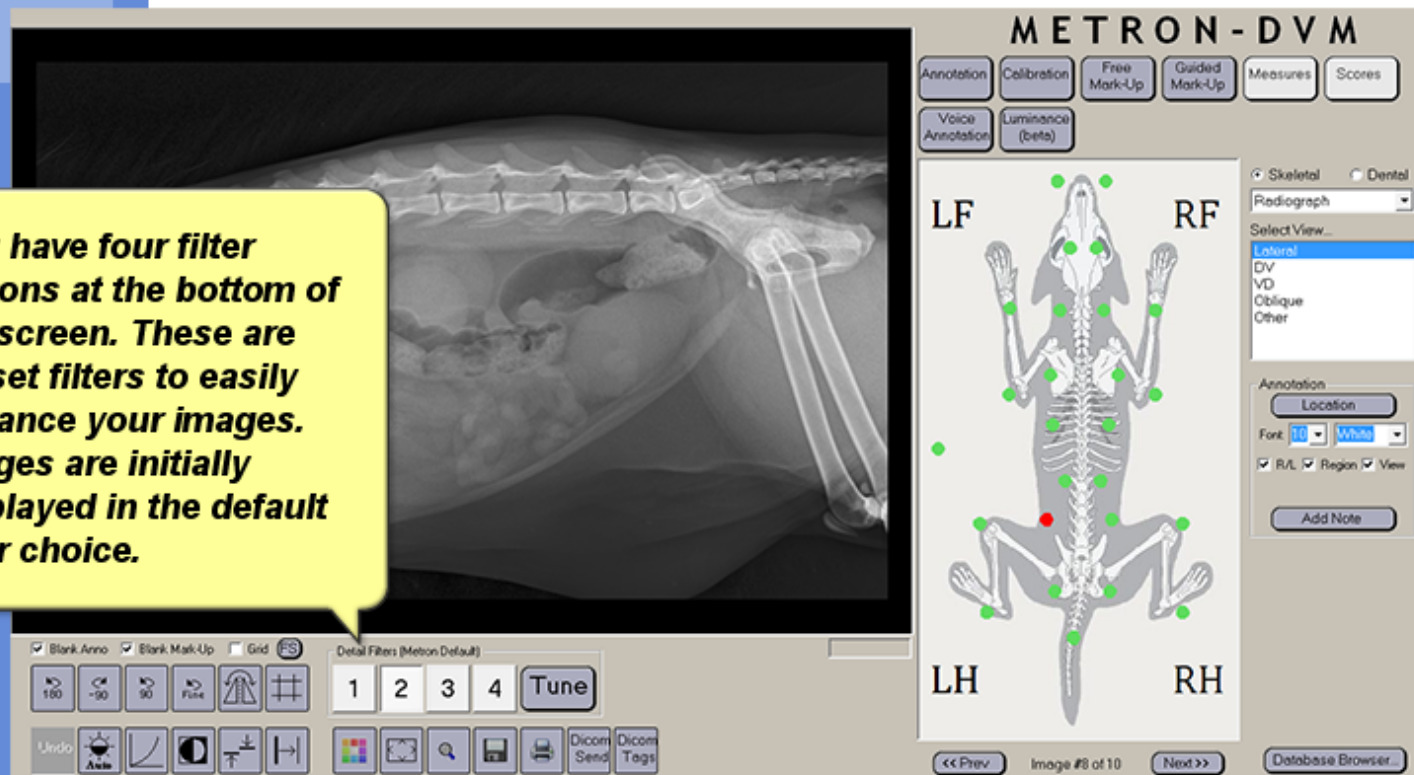
LF RF
LH RH

1 2 3 4 Tune
Undo Auto
Dicom Send Dicom Tags

<< Prev Image #8 of 10 Next >> Database Browser...

You are also able to crop an image. You may want to save a copy of the original image or you are able to “un-crop” your changes at any time in the future.

You have four filter options at the bottom of the screen. These are preset filters to easily enhance your images. Images are initially displayed in the default filter choice.



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Acquiring New Images into the Metron Database

The screenshot displays the METRON-DVM software interface. The main window shows a lateral radiograph of a dog's spine and ribs. To the right, a skeletal overlay of a dog is shown with green dots marking anatomical points, labeled LF, RF, LH, and RH. The interface includes a top menu bar with buttons for Annotation, Calibration, Free Mark-Up, Guided Mark-Up, Measures, and Scores. Below this, there are buttons for Voice Annotation and Luminance (beta). A sidebar on the right contains a dropdown for Radiograph, a Select View... menu with options Lateral, DV, VD, Oblique, and Other, and an Annotation section with a Location button, Font size (10), and White color selection. At the bottom, there are buttons for Previous, Next, and Database Browser. A small inset image in the bottom left corner shows a book titled "METRON SUPPORT SERVICES Advanced Image Processing in Metron".

METRON - DVM

Annotation Calibration Free Mark-Up Guided Mark-Up Measures Scores

Voice Annotation Luminance (beta)

☒ Skeletal ☐ Dental

Radiograph

Select View...

Lateral DV VD Oblique Other

Annotation

Location

Font: 10 White

☒ R/L ☒ Region ☒ View

Add Note

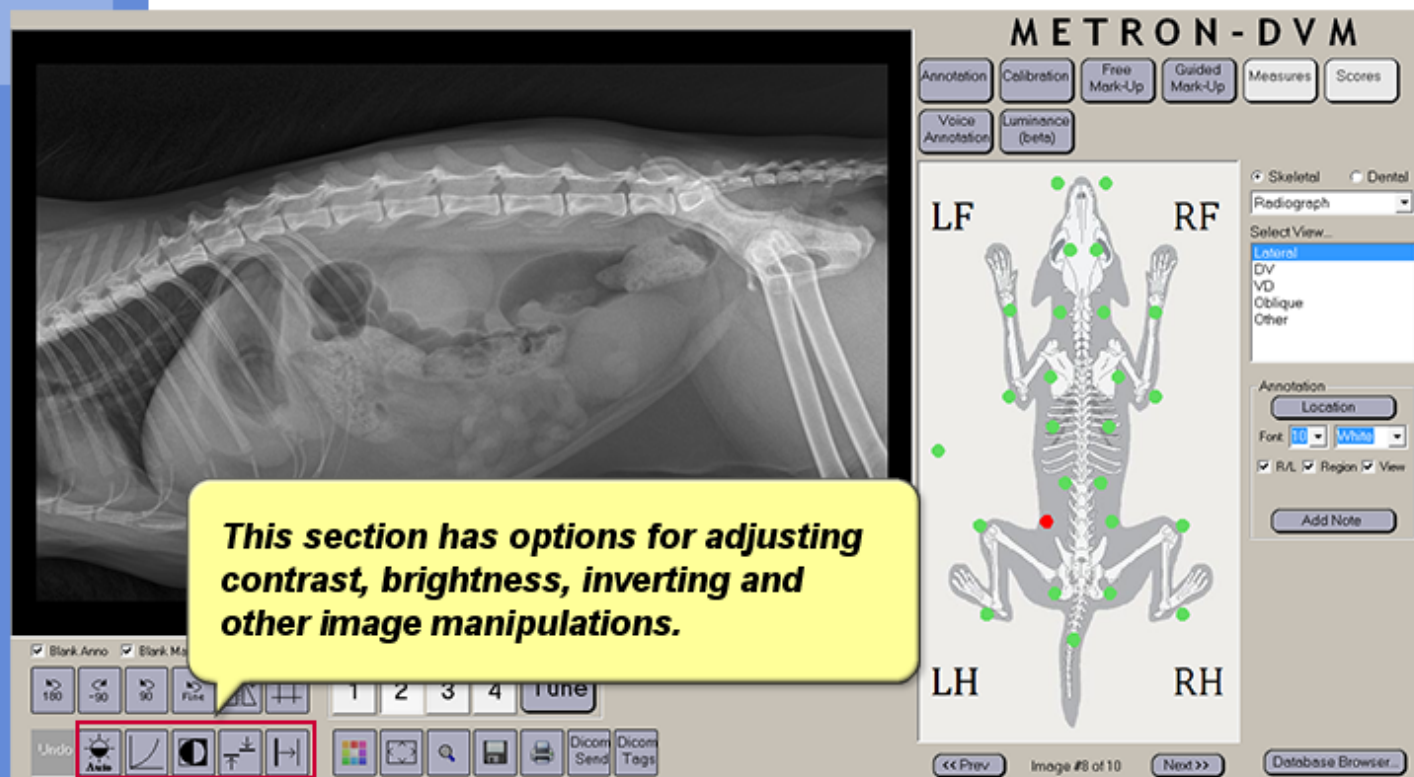
3 4 Tune

Image #8 of 10

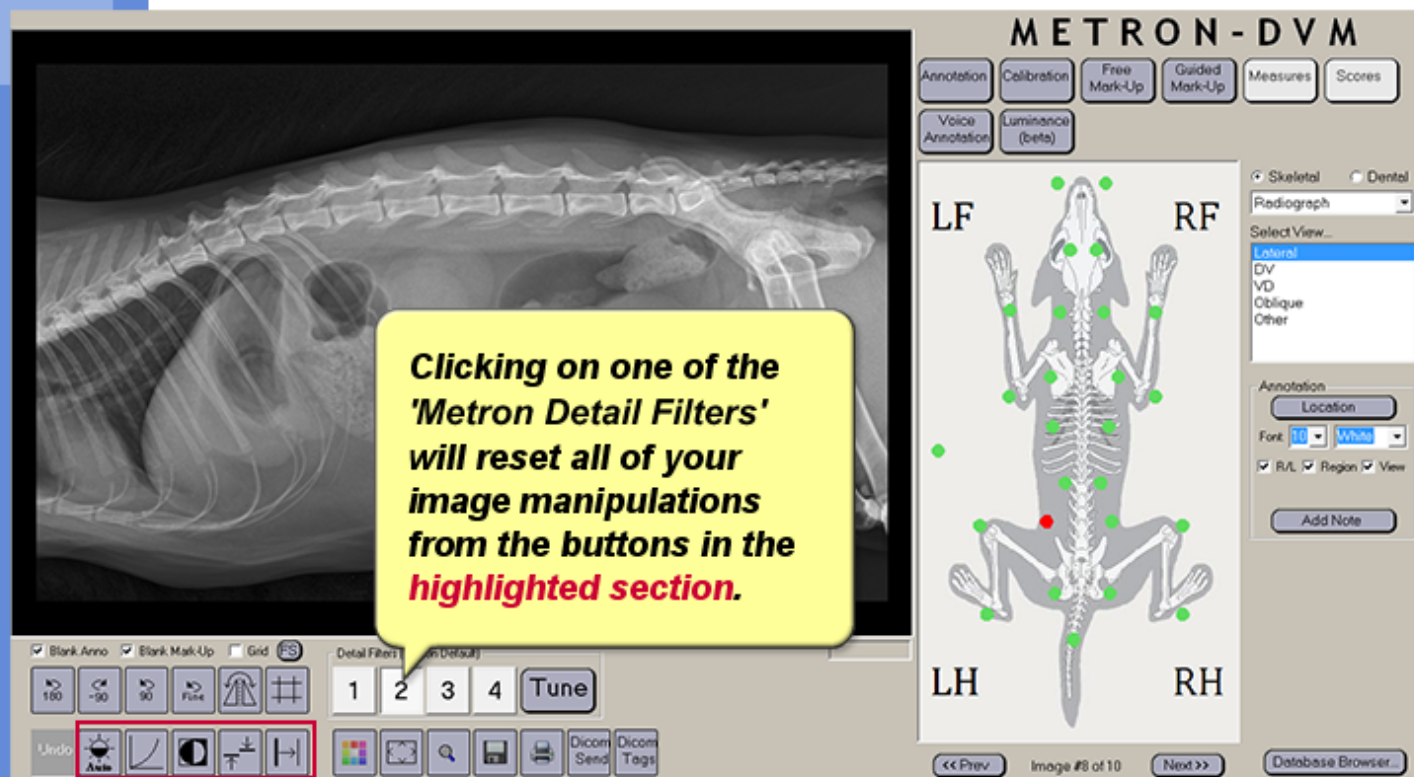
Database Browser...

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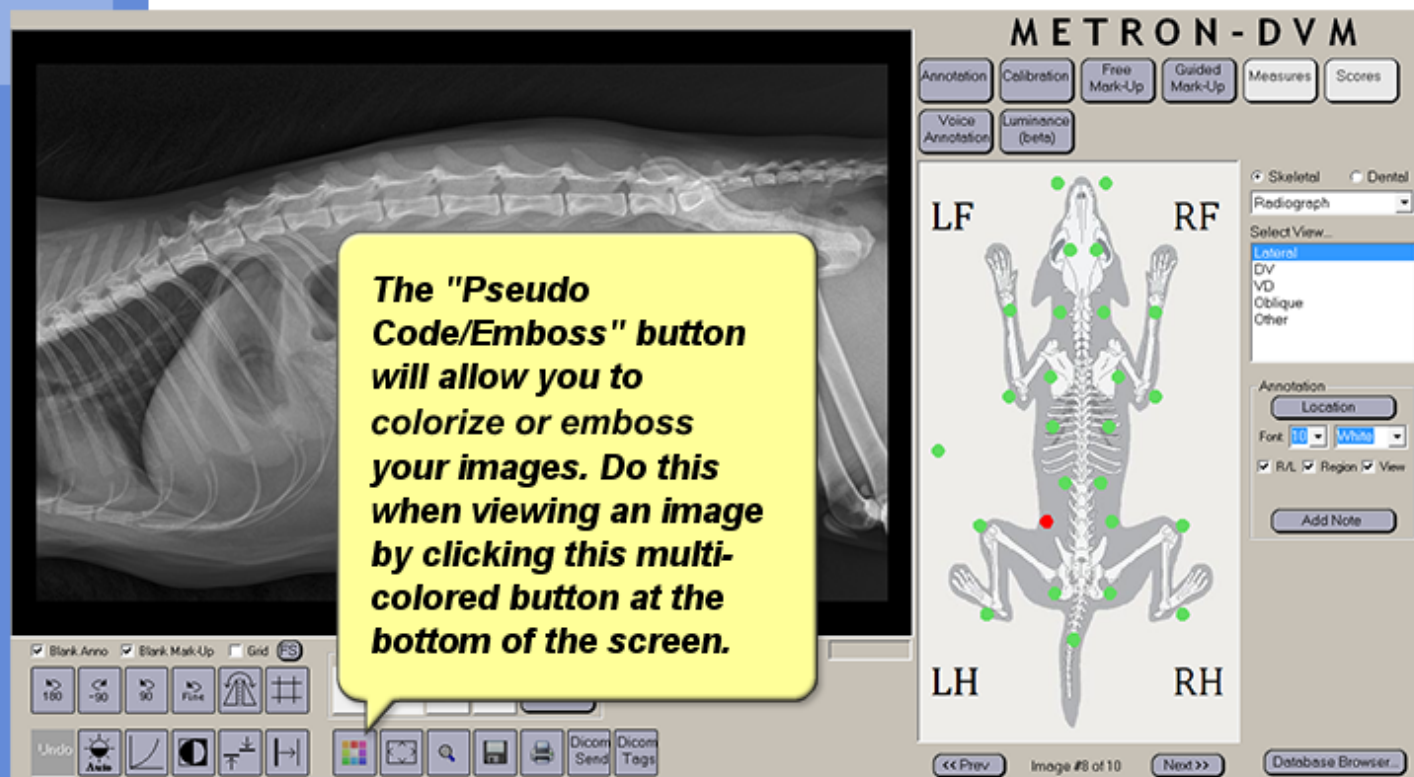
Acquiring New Images into the Metron Database



Acquiring New Images into the Metron Database

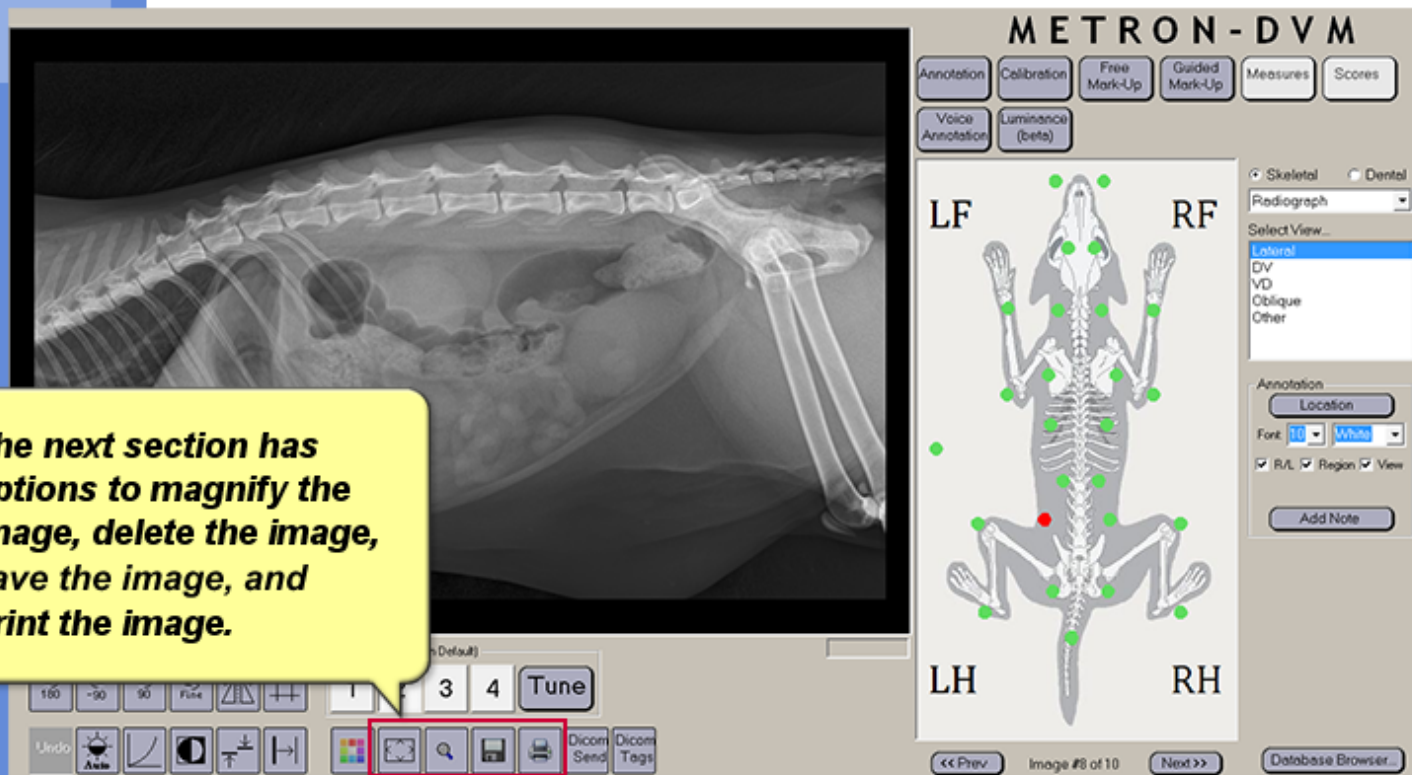


Acquiring New Images into the Metron Database



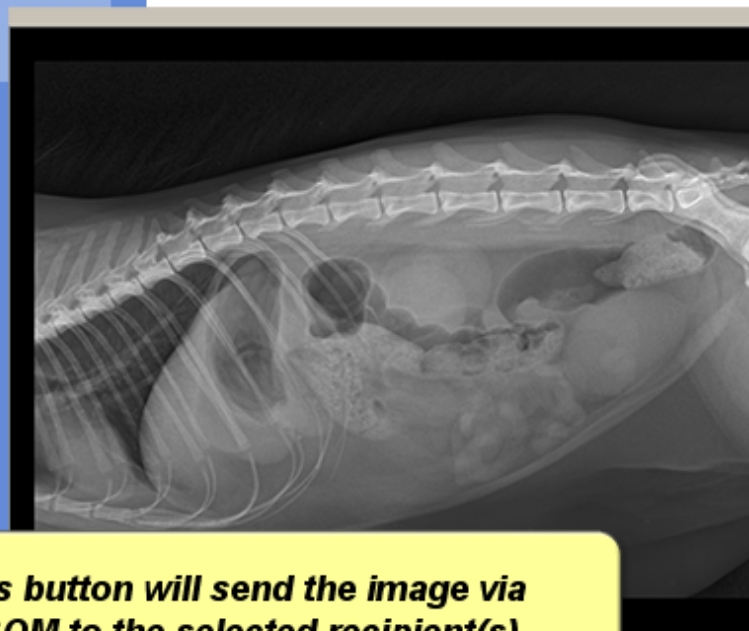
Acquiring New Images into the Metron Database

The next section has options to magnify the image, delete the image, save the image, and print the image.



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Acquiring New Images into the Metron Database



This button will send the image via DICOM to the selected recipient(s).

DICOM Send Recipients

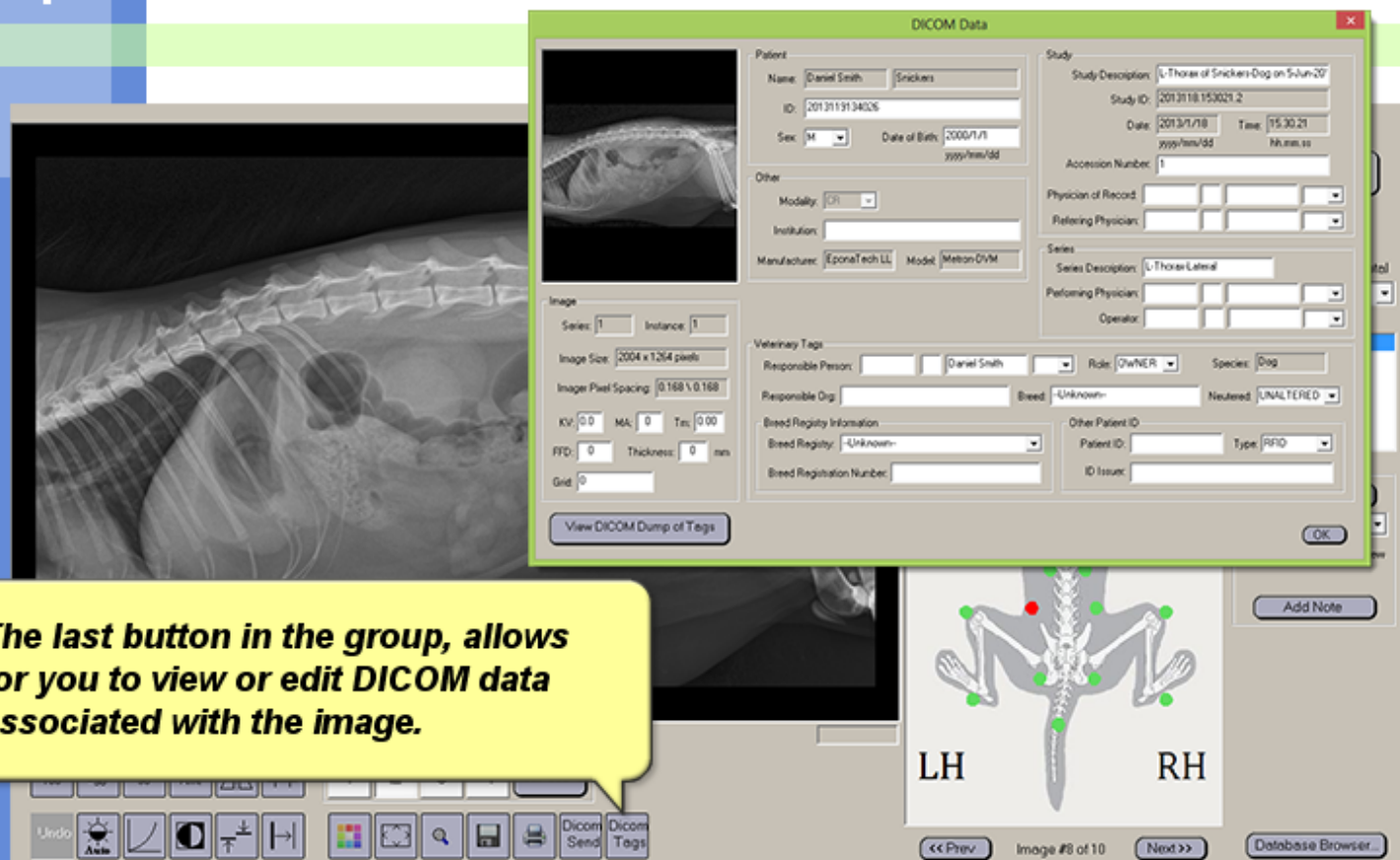
Select All Select None

☒ Mary Smith
☒ James Jones

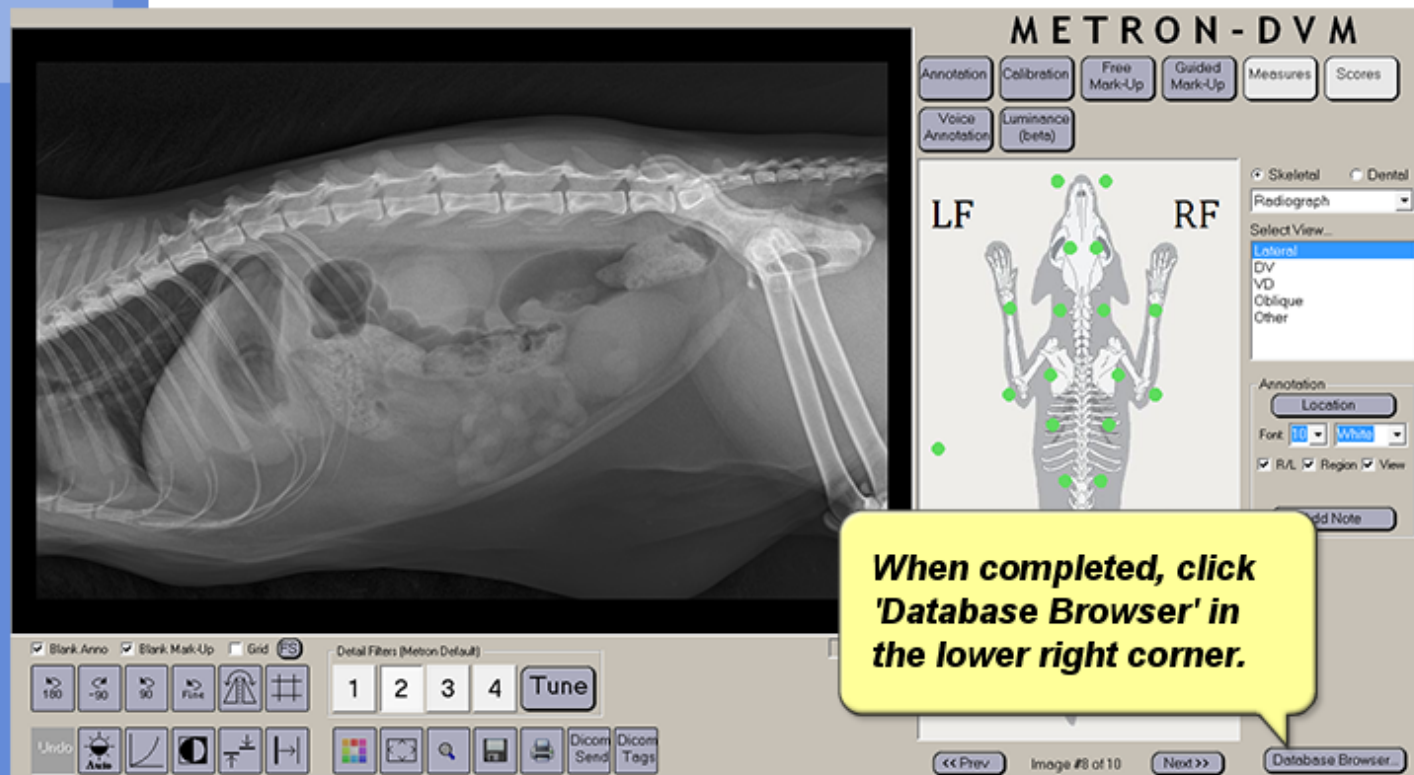
Send Cancel Send

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Acquiring New Images into the Metron Database



Acquiring New Images into the Metron Database



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Acquiring New Images into the Metron Database



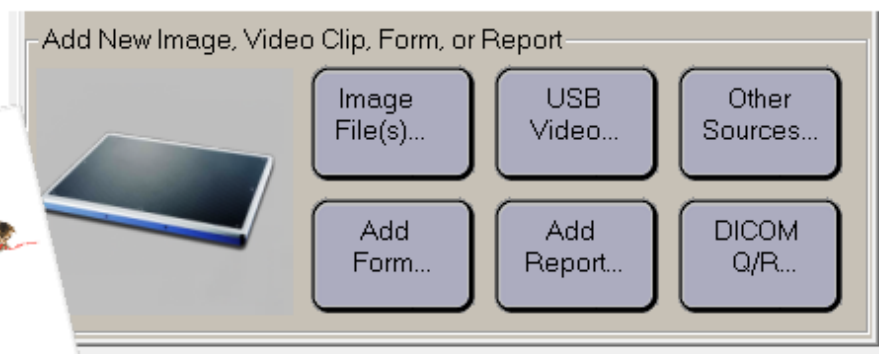
This will bring you back to the main screen - viewing thumbnails of all images in the current study. Any changes that were made are automatically saved as you made them.



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Acquiring New Images into the Metron Database



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In the following seven slides, you will be presented questions to evaluate your knowledge of **"Acquiring New Images into the Metron Database"**.

Let's get started!



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Acquiring New Images into the Metron Database

If you are acquiring a new image into an existing study, select:

- ☐ Owner and animal.
- ☒ Owner, animal, and date.
- ☐ Date and owner.

Submit

Congratulations, your answer is correct!

Sorry, your answer is incorrect. Please try again.

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Acquiring New Images into the Metron Database

If acquiring images for an animal that has been imaged before, select the study by:

- ☒ Choosing the owner, then animal using pull down arrows. Date is automatically entered.
- ☐ Choosing the owner, then date using pull down arrows. Animal is automatically entered.
- ☐ Choosing the date, then owner using pull down arrows. Animal is automatically entered.

Submit

Congratulations, your answer is correct!

Sorry, your answer is incorrect. Please try again.

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Acquiring New Images into the Metron Database

Click the "icon" of the device you would like to acquire the image from. You will be presented with the:

- ☐ Single Image Viewer screen in "View Mode".
- ☐ Single Image Viewer screen in "Delete Mode".
- ☒ Single Image Viewer screen in "Acquire Mode".

Submit

Congratulations, your answer is correct!

Sorry, your answer is incorrect. Please try again.

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Acquiring New Images into the Metron Database

At the bottom of the screen,
the "FS" button will:

- ☒ Put the image in "Full Screen Mode".
- ☐ Put the image in "Feature Mode".
- ☐ Provide "Facts" about the image.

Submit

Congratulations, your answer is correct!

Sorry, your answer is incorrect. Please try again.

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Acquiring New Images into the Metron Database

After using other options at the bottom of the screen such as contrast or brightness, clicking one of the "Metron Detail Filters" will:

- ☐ Reset all your image manipulations.
- ☒ Reset all of your image manipulations from the buttons.
- ☐ Reset all.

Submit

Congratulations, your answer is correct!

Sorry, your answer is incorrect. Please try again.

Acquiring New Images into the Metron Database

The "DICOM Send" button will:

- ☒ Send the image via DICOM to the selected recipient(s).
- ☐ Send the image via Metron to the selected recipients(s).
- ☐ Allow you to view or edit DICOM data associated with the image.

Submit

Congratulations, your answer is correct!

Sorry, your answer is incorrect. Please try again.

Acquiring New Images into the Metron Database

After clicking the “Database Browser” button in the lower right corner, you will be taken back to the main screen – viewing thumbnails of all images in the current study. Any changes that were made are:

- ☒ Automatically saved as you made them.
- ☐ Need to be saved by clicking one of the new image icons.
- ☐ Need to be saved by clicking "Add to Collection" button.

Submit

Congratulations, your answer is correct!

Sorry, your answer is incorrect. Please try again.



Acquiring New Images into the Metron Database

This completes the "Acquiring New Images Into the Metron Database" online training.
Please feel free to view it again or select another online training session to review.



Click F11 on your keyboard to minimize the browser screen
and click the window closed to exit this training session.

