

ACUSON Juniper Ultrasound System

Getting Started
Software Release VB30D



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Speaker Notes:

In this presentation we will discuss getting started on the ACUSON Juniper™ ultrasound system.

Objectives

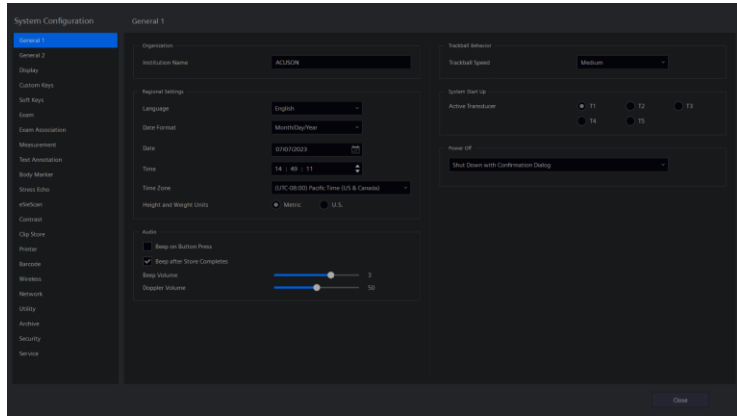
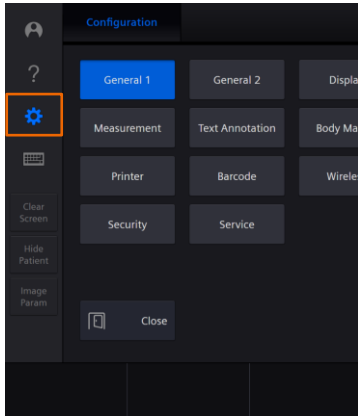


- Demonstrate patient registration
- Review the steps to end, edit and restart an exam
- Demonstrate workflow selections
- Produce customized exam presets
- Identify review functions
- Discuss backup and restore

Speaker Notes:

Here are the objectives for this presentation. We will start with demonstrating the patient registration.

Patient registration Configuration



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Speaker Notes:

Select the **System Configuration** icon located on the left side of the Touch Screen, then select the **General 1** tab.

At initial installation, prior to starting an exam, check the following in System Configuration > General 1:

- Institution name under Organization
- Language, date and time under Regional Settings

Patient registration Starting an exam



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Speaker Notes:

Select **Patient** on the Control Panel to register a patient. Complete registration one of two ways:

- Manual entry
- Modality Worklist (MWL)

Patient registration Manual

To manually register a patient:

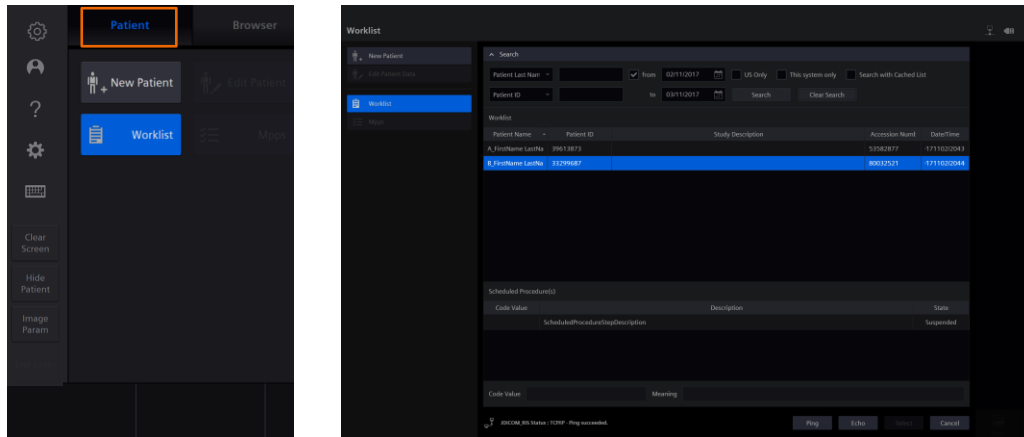
- Select **New Patient**
- Enter the patient information, select transducer, exam and protocol
- Select **OK** to begin imaging

Speaker Notes:

To manually register a patient:

- Select **New Patient**
- Enter the patient information and select Transducer, Exam and Protocol (if desired)
- Select **OK** to begin imaging

Patient registration Worklist



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Speaker Notes:

To Register a patient using a worklist server:

- Select the **Patient** tab on the Touch Screen
- Select **Worklist** on the Touch Screen or image screen
- Select a scheduled study from the worklist or search for a specific patient/study by name, patient ID, etc.
- Select the Transducer, Exam and Protocol
- Select **OK** to begin imaging

Objectives



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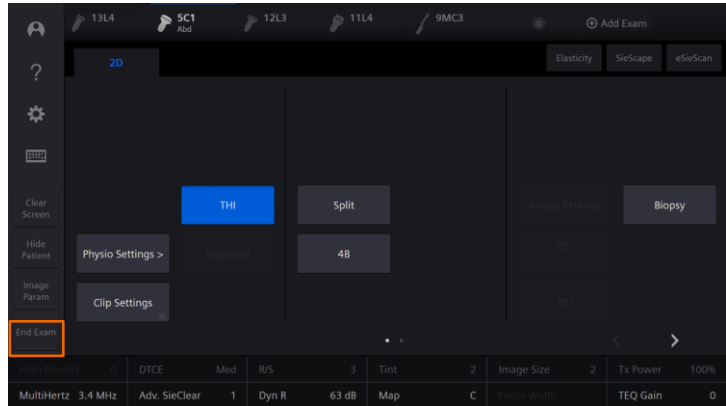
Speaker Notes:

Next, we will discuss reviewing the steps to end, edit and restart an exam.

End Exam

To end an exam:

Select **End Exam** on the Touch Screen



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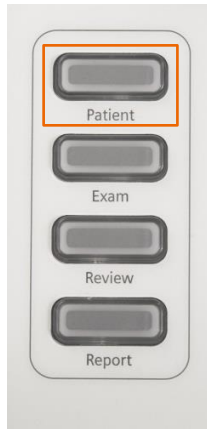
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Speaker Notes:

To end an exam, select **End Exam** located on the left side of the Touch Screen.

Please note: End Exam is available in all imaging modes.

Edit patient data



The screenshot shows the 'Edit Patient Data' form in the Siemens Healthineers software. The form is titled 'Register' and 'Edit Patient Data'. It contains several sections for patient information:

- Patient Demographics:** Includes fields for Last Name, First Name, Middle Initial (MI), Date of Birth (DD/MM/YYYY), Gender (Male/Female/Other), Height (cm), Weight (kg), and Patient ID (31.07.2017.14.42.25).
- Exam:** Includes fields for Transducer (12L3), Accession No., Exam (Thyroid), and Indication.
- Medical Information:** Includes a section for Additional Info.
- Order Information:** Includes fields for Performing MD, Referring MD, and Sonographer.

At the bottom right of the form are 'OK' and 'Cancel' buttons.

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Speaker Notes:

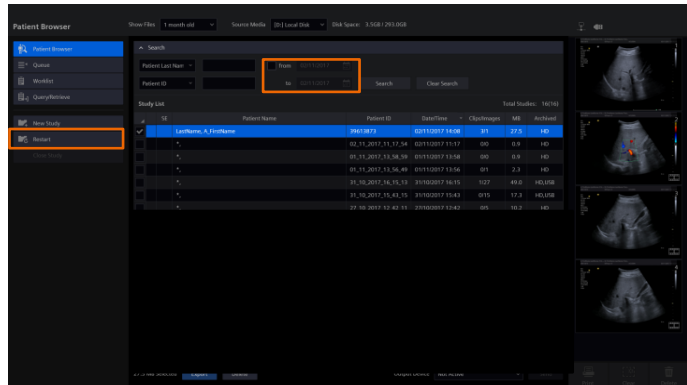
To edit information in the patient registration form during an active examination requires the following steps:

- Select **Patient** on the Control Panel to return to the Patient Registration page
- Select **Edit Patient Data**
- Re-enter/edit the required information on the patient demographics form
- Select **OK** to save changes

Restart an exam

To restart an exam:

- Select **Patient** on the Control Panel
- Select **Browser** on the Touch Screen
- Select the search period
- Select the desired exam
- Select **Restart**



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Speaker Notes:

To restart an exam:

- Select **Patient** on the Control Panel
- Select **Browser** on the Touch Screen
- Select the search period, if necessary
- Click to select the desired exam
- Select **Restart** to open the patient registration page
- Select **OK** to restart the exam

Please note: Images, clips and volumes can be added to a closed study within 24 hours.

Objectives



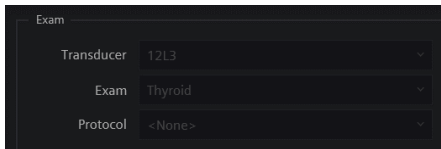
- Demonstrate patient registration
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- Produce customized exam presets
- Identify review functions
- Discuss backup and restore

Speaker Notes:

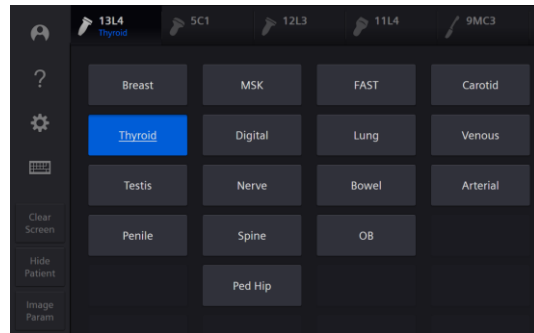
Next, we will demonstrate the workflow selections.

Workflow selections Transducer, exam and protocol

To select an exam type from the patient registration screen



Exam and transducer can also be selected from the Touch Screen



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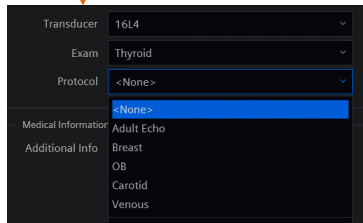
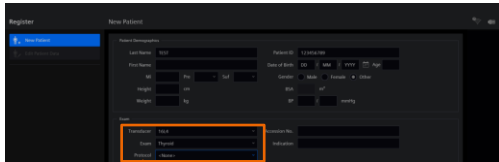
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Speaker Notes:

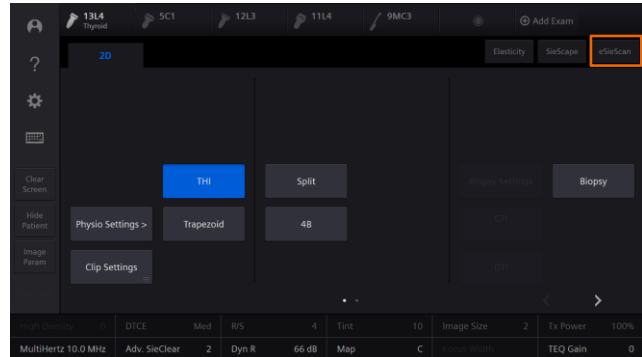
Workflow selection includes the selection of the transducer, exam type and protocol. Select from the Patient Registration screen, Touch Screen or Exam key.

1. The first option is during Patient Registration:
 - Select the Transducer
 - Select study type from the Exam drop-down menu
 - Select a Protocol, if desired
 - Select **OK**
2. The second option is through the Touch Screen:
 - Select transducer from the top left of the Touch Screen
 - Select the transducer-specific exam from the available options displayed on the Touch Screen
 - The active exam is displayed in blue

Protocols (eSieScan workflow protocols)



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Speaker Notes:

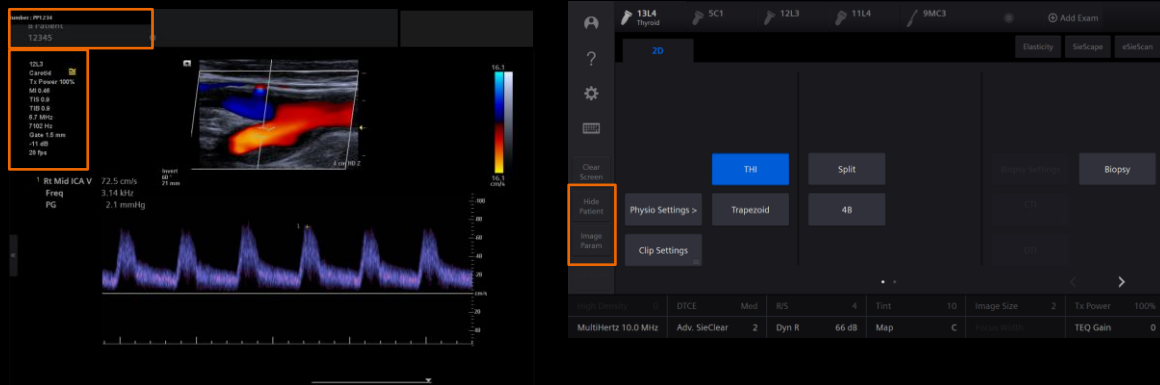
Select a protocol (eSieScan™ workflow protocols) in two different ways:

1. During Patient Registration: Select the protocol from the drop-down menu on the Patient Registration screen
2. Touch Screen:
 - Select the **eSieScan** tab on the top right of the Touch Screen
 - Select the desired protocol
 - The Touch Screen displays all customized protocols (e.g., Shoulder, Cardiac 2, Thyroid 2)

The system automatically activates the first view of the protocol once the live scanning screen initiates.

Please note: This presentation uses the term “protocols” to refer to the eSieScan workflow protocols displayed as eSieScan on the ultrasound system.

Image parameters and patient information



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Speaker Notes:

The imaging screen displays the Patient Banner and the imaging parameters. Customized banner display options are located in the Configuration Menu under General 2.

During the exam, remove the patient name for a particular image by selecting the **Hide Patient** key on the left side of the Touch Screen. Use these images for teaching files or presentations. The patient banner remains hidden for all images stored after selected. Select the **Hide Patient** key again to re-display patient information.

To hide the imaging parameters during an exam, select the **Image Param** key on the left side of the Touch Screen. Select the **Image Param** key again to re-display the imaging parameters.

Objectives



- Demonstrate patient registration
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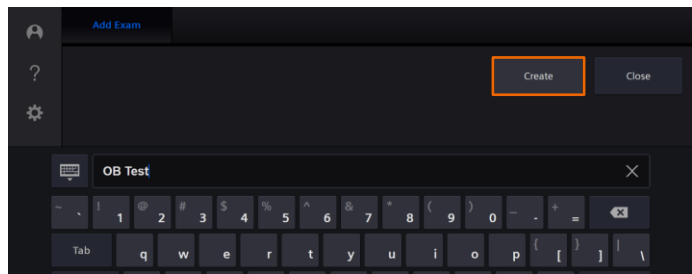
Speaker Notes:

Next, we will discuss how to produce customized exam presets.

Creating a user-defined exam

To create a user-defined exam preset:

- Select the transducer and exam from the Touch Screen
- Select **Add Exam**
- Enter a name for the exam
- Select **Create**



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Speaker Notes:

To create a user-defined exam preset:

- Select the required transducer and Exam type from the Touch Screen exam list
- Select **Add Exam**
- Enter a name for the exam
- Select **Create** to save the settings and add the new exam to the list

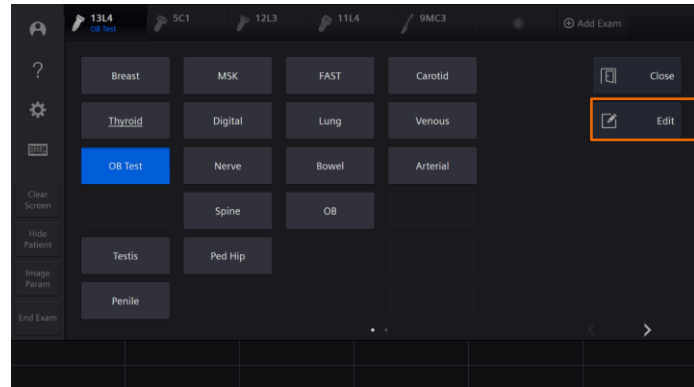
Please note: Do not begin the filename with a percent sign (%), and do not use the following characters in the file name: / \ : * ? " < > .

Editing a user-defined exam

To edit a user-defined exam preset:

- Select the exam preset you want to edit
- Adjust the parameters
- Select the desired transducer tab
- Select **Edit**

(continued on next slide)



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Speaker Notes:

To edit a user-defined Exam preset:

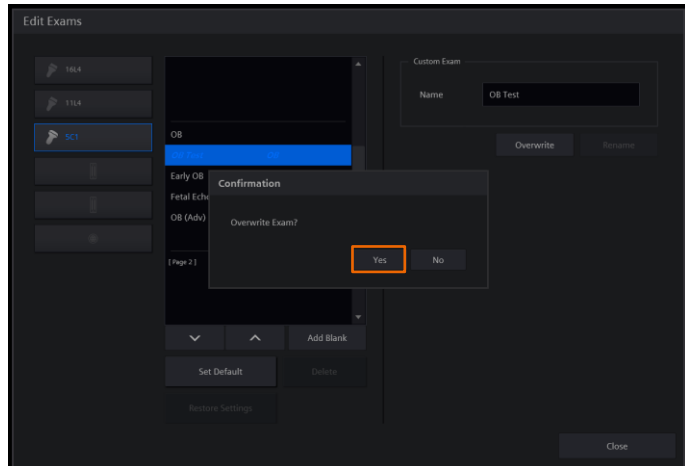
- Select the user-defined Exam preset you want to edit
- Adjust all the parameters
- Select the desired transducer tab
- Select **Edit** located on the right side of the Touch Screen

(Continued on next slide)

Overwriting a user-defined exam

To overwrite a user-defined exam preset:

- Select the desired user-defined exam
- Select **Overwrite**
- Select **Set Default** to change the default exam for the selected transducer
- Select **Yes** to confirm



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Speaker Notes:

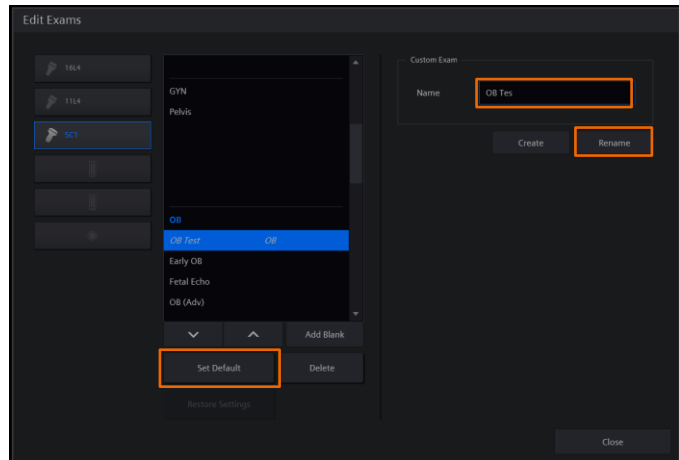
To overwrite the selected exam with the current imaging settings:

- Select the desired user-defined exam
- Select **Overwrite**
- To change the default exam for the selected transducer, select the desired exam and select **Set Default**
- Select **Yes** to confirm

Renaming a user-defined exam

To rename a user-defined exam preset:

- Select the desired user-defined exam
- Replace the information in the **Name** field
- Select **Rename**
- Select **Set Default** to change the default exam for the selected transducer



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Speaker Notes:

To rename the selected exam:

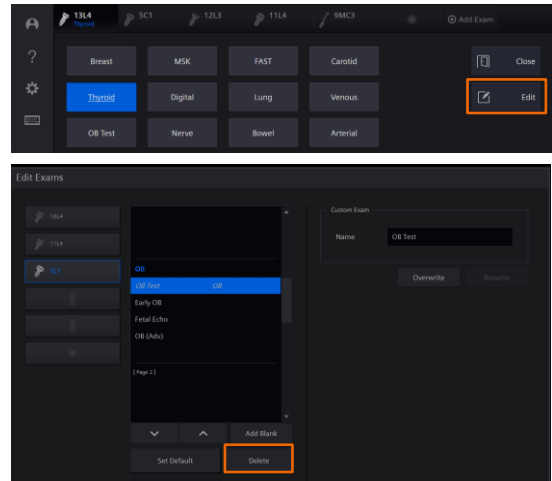
- Select the desired user-defined exam
- Replace the information in the Name field
- Select **Rename**
- To change the default exam for the selected transducer, select the desired exam and then select **Set Default**

Tip: Use the arrows to adjust the display position of the exam types on the Touch Screen.

Deleting a user-defined exam

To delete a user-defined exam preset:

- Activate an exam preset other than the one you want to delete
- Select the desired transducer tab
- Select **Edit**
- Select the desired exam
- Select **Delete**



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Speaker Notes:

To delete a user-defined Exam preset:

- Activate an Exam preset you do not want to delete
- Select the desired transducer tab and select the **Edit** key from the right side of the Touch Screen
- Select user-defined Exam that you do want to delete
- Select **Delete**

Please note: A user-defined exam cannot be deleted while active.

Objectives

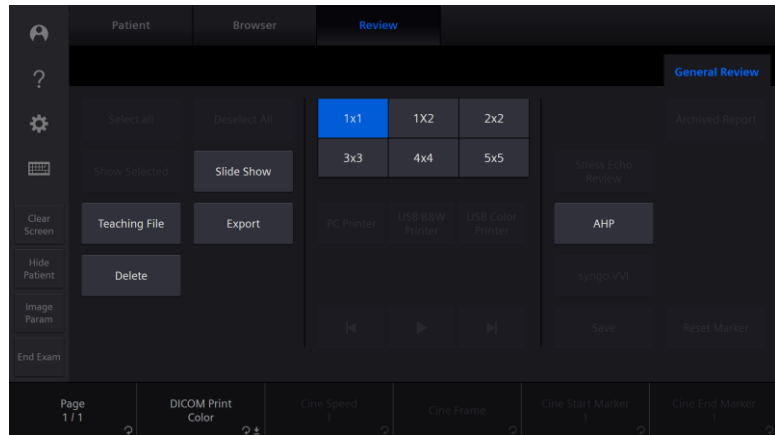
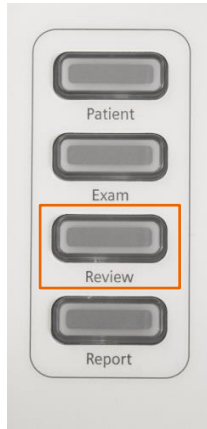


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Speaker Notes:

Next, we will discuss how to use the review functions.

Activate review mode Active study



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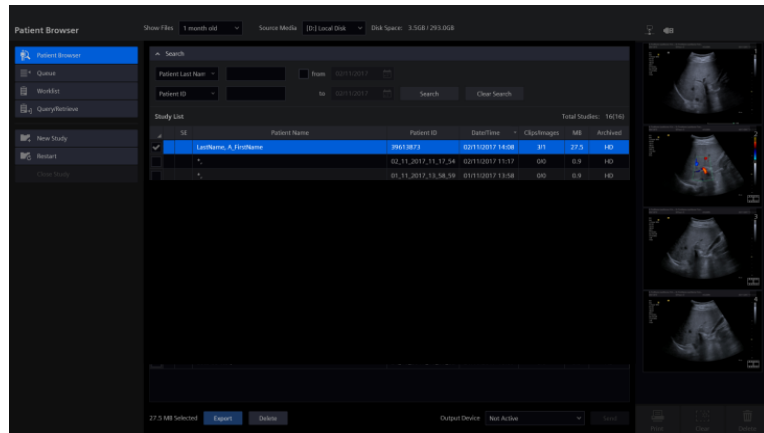
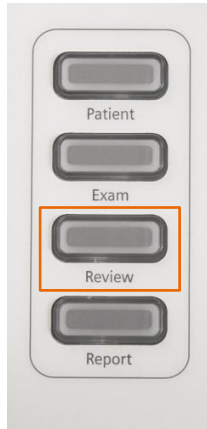
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Speaker Notes:

To activate the review mode during an active examination, press the **Review** key on the Control Panel.

You can view, print, export or delete images as well as create a teaching file from the **Review** function.

Activate review mode Saved study



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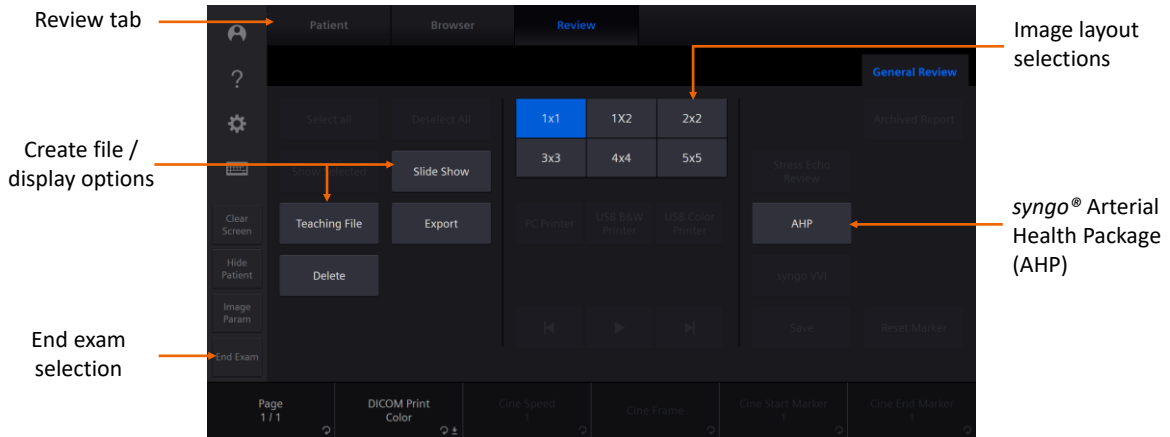
Speaker Notes:

To activate the review mode for a saved study:

- Select **Review** key on the Control Panel
- Double click the desired patient study from the patient browser

You can view, print, export or delete images as well as create a teaching file from the Review function.

Review Touch Screen layout Active study



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Speaker Notes:

When in the review page the options are:

- Slide Show – The system will display the exam in a slide show format
- Teaching File – This will allow the user to place different images into one folder
- Export – This will export the exam
- Image Layout selections – This allows the user to display the number of images on the monitor
- AHP – This is where the user can use the *syngo*® Arterial Health Package (AHP)
- End Exam – Ends the exam

Review on-screen layout display and options



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Speaker Notes:

When review is activated, the system displays all images and clips saved with the study in the thumbnail panel and displays at least one image or clip on the review screen.

The number of the image is displayed in the upper right corner in the patient banner.

The Touch Screen displays the available image layouts – the 1x1 layout is shown here.

To scroll through the thumbnails, use the Pointer and Set key or rotate the rotary dial labeled Page on the Control Panel.

To select specific images for review double click the image or required thumbnail. To cancel the selection, click the image again.

To select all images on the review screen, select **Select all**. To cancel the selection of all images, select **Deselect All**.

Review onscreen multi-layout display



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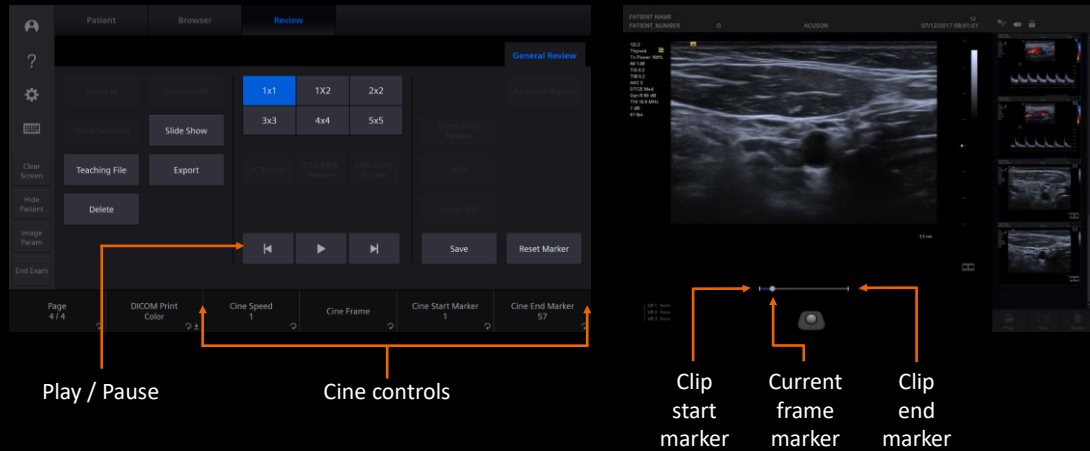
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Speaker Notes:

To change the display format of the onscreen images, select a different format from the available options listed on the Touch Screen.

This example is a **4x4** image display layout. Please note: The active image has a thick border around the thumbnail and clips are identified by the Cine clip icon in the bottom right corner of the thumbnail.

Viewing clips Touch Screen options



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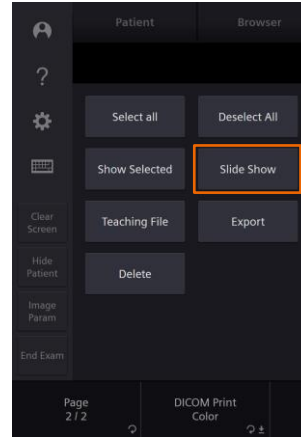
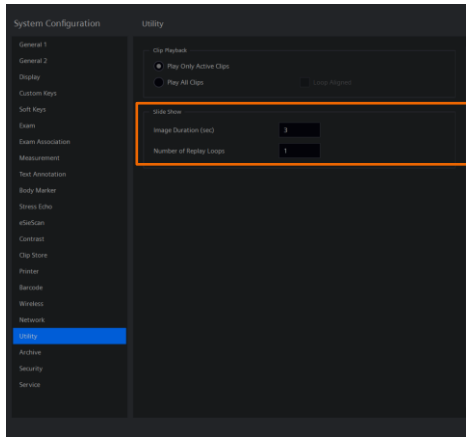
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Speaker Notes:

When viewing a clip:

- Use play/pause options to control clip function
- Rotate **Cine Frame** designated rotary control to review the clip frame by frame
- Rotate **Cine Speed** designated rotary control to select the desired speed
- Rotate **Cine Start Marker** and/or **Cine End Marker** designated rotary controls to adjust the length of a clip
- Select **Save** to finalize changes

Slide show



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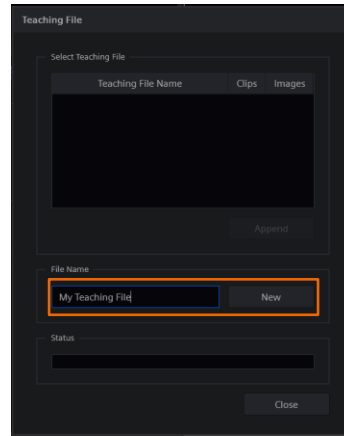
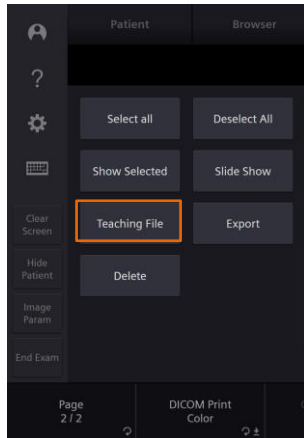
Speaker Notes:

To select specific images for slide show review:

- Select the image or required thumbnail
- To cancel the selection, select the image again
- To select all images on the review screen, select **Select all**
- To cancel the selection of all images, select **Deselect All**
- Select **Slide Show** to view the slide show for the selected images

Please note: Slide Show preferences may be modified under System Configuration > Utility.

Teaching file



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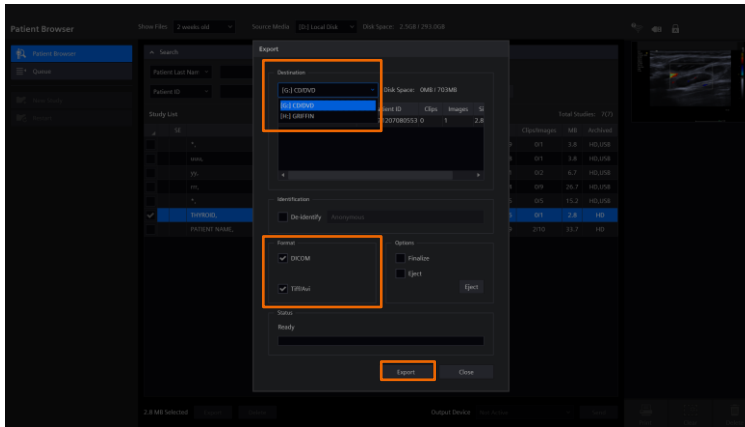
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Speaker Notes:

To select specific images for a teaching file, perform the following steps:

- Click the image or required thumbnail
- To cancel the selection, click the image again
- To select all images on the review screen, select **Select all**
- To cancel the selection of all images, select **Deselect All**
- Select **Teaching File**
- Under Teaching File, name the file and select **New** or select an existing file and select **Append**
- Select **Close**

Export from patient browser USB or CD/DVD



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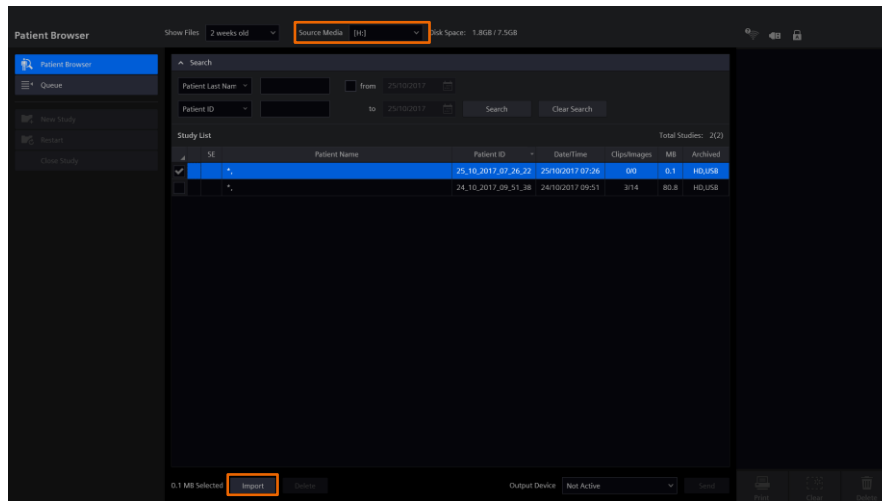
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Speaker Notes:

To export a study to CD-R/DVD or USB:

- Insert CD-R/DVD or USB into the left side of the Touch Screen
- Select the patient name in the Patient Browser
- Select **Export**
- Select **DICOM** or **TIFF/AVI** as the export format
- Select **CD/DVD** or desired USB drive as the destination and select **Export**

Import studies from USB or CD-R / DVD



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Speaker Notes:

To import a study from a CD-R/DVD or USB:

- Insert CD-R/DVD or USB
- Select **CD/DVD** or desired USB drive from Source Media in the Patient Browser
- Select the patient name/study
- Select **Import**

Objectives

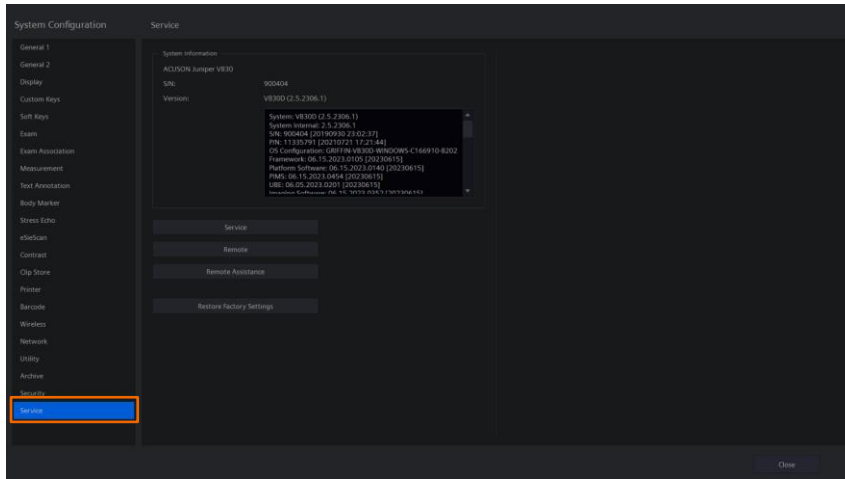


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Speaker Notes:

Lastly, we will discuss how to back up and restore an exam preset.

Back up and restore presets



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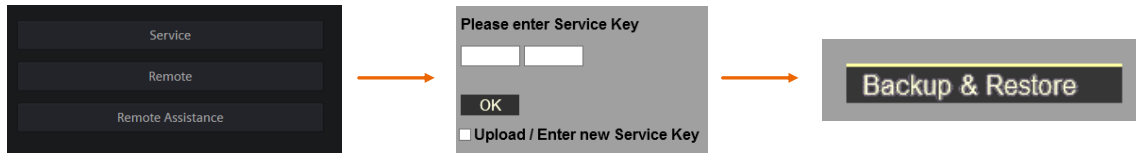
Speaker Notes:

To back up and restore system presets:

- Access the configurations settings and then Select **Service**.

(continued on next slide)

Back up and restore presets



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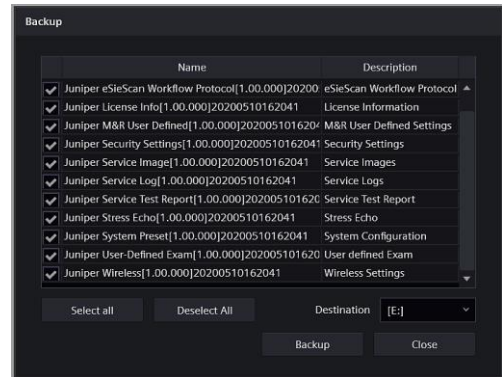
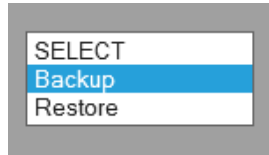
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Speaker Notes:

- Select **Service** to access the settings in the service software
- Select **OK**
- Select **Backup & Restore**

(continued on next slide)

Backup



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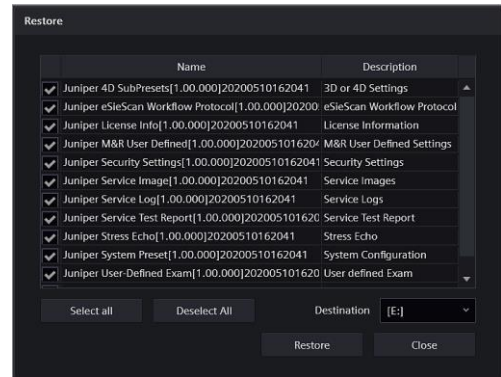
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Speaker Notes:

To save configuration settings and user-defined exam settings to a USB storage device:

- Insert the external storage device into the USB port
- Select **Backup** from the Select list
- Select the check box for each required setting and then select **Next**
- Select the desired destination drive and then select **Backup**
- Select **OK**

Restore



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Speaker Notes:

To retrieve saved settings from a USB storage device:

- Insert the external storage device into the USB port
- Click **Restore** from the Select list
- Select the required storage device from the Destination list
- Select the check box for each required file type and then click **Restore**
- Click **OK** to confirm the completion message
- Click **Close**; the system displays a message that power must be cycled to the system for completion of the operation
- Click **OK** to restart the ultrasound system

Please note: The system will perform two reboots during Restore. The first reboot does the upload, the second reboot resumes normal operation.

Trademarks and Disclaimers

- ACUSON Juniper is a trademark of Siemens Medical Solutions USA, Inc.
- *syngo*® Arterial Health Package (AHP) is a registered trademark of Siemens Healthcare GmbH

Speaker Notes:

No speaker notes.

Thank you for your enthusiasm!

Questions?

Speaker Notes:

No speaker notes.