

ACUSON Juniper ultrasound system

Workflow protocols
Software release 3.0 (VC10)



Objectives



- Define and summarize benefits of protocols
- Create and modify a protocol
- Use protocols



What is a protocol?



Automated major imaging mode changes

Automated Text and Body Marker labeling

Automated measurements

Guided and automated clinical workflow, based on a predefined checklist.

Why use protocols?



Benefits of protocols

Guides new users

Standardizes exams across users

Reduction of keystrokes

Flexible when needed

Objectives



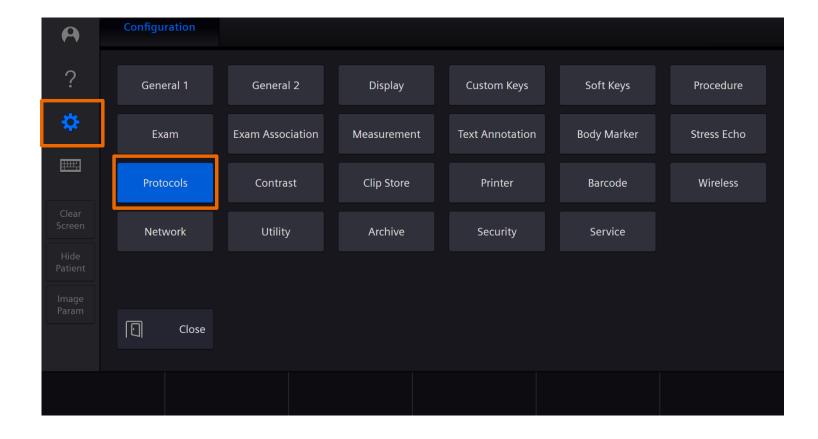
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Creating a protocol Configuration menu

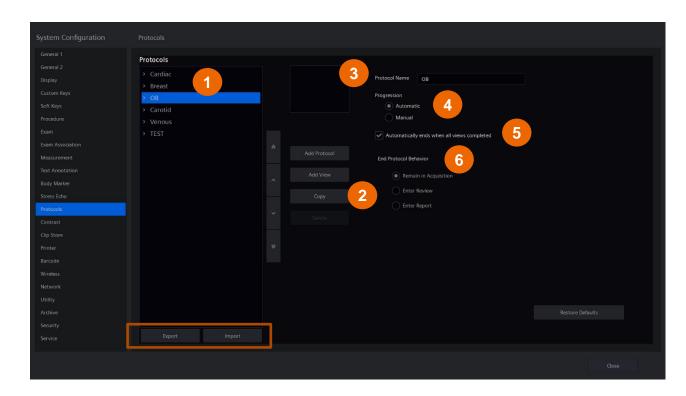


- Select **System Configuration**
- Select **Protocols**



Creating a protocol Copy a factory default





Factory defaults may be used as a template for creating a new protocol.

For example:

- 1. Select **OB**
- 2. Select Copy
- 3. Change Protocol Name
- 4. Select **Automatic** or **Manual** progression
- 5. If desired, select to automatically end when all views are completed
- 6. Select End Protocol Behavior



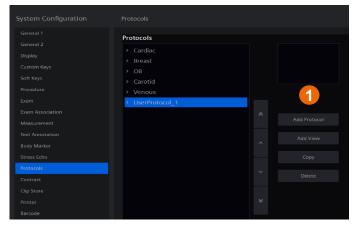
Import or export protocols using a USB storage device.

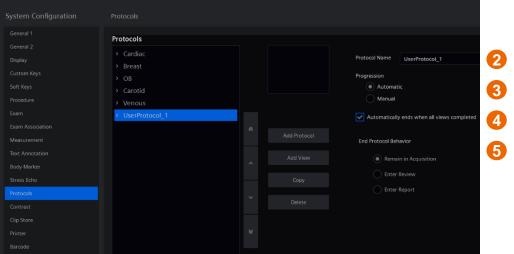
Creating a protocol Adding a new protocol



If no factory default exists for an exam, a new protocol can be created:

- Select Add Protocol, a new UserProtocol_1
 will be added to the screen
- 2. Change the Protocol Name
- 3. Select **Progression** type
- Select whether to **Automatically** end when all views completed
- 5. Select End Protocol Behavior





Creating a protocol Adding a view



- Select Add View
- 2. Type **View Name**
- 3. Select imaging mode (multiple modes may be selected)
- Change order of views by moving them up/down



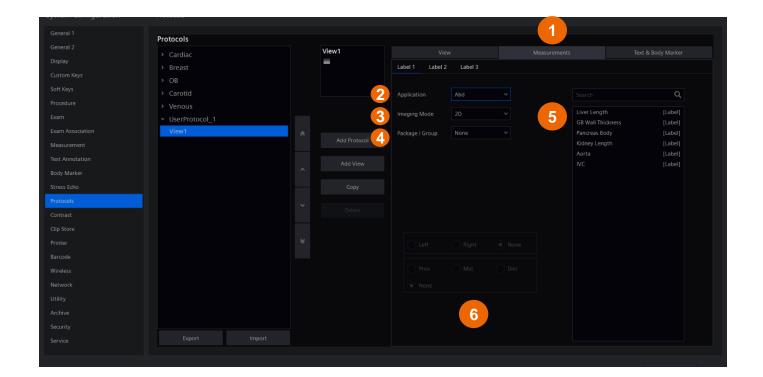
Creating a protocol Adding a 2D measurement



- Select Measurements tab
- 2. Select **Application**
- 3. Select **Imaging Mode: 2D**
- 4. Select Package/Group
- 5. Select desired measurement
- 6. Select laterality if appropriate



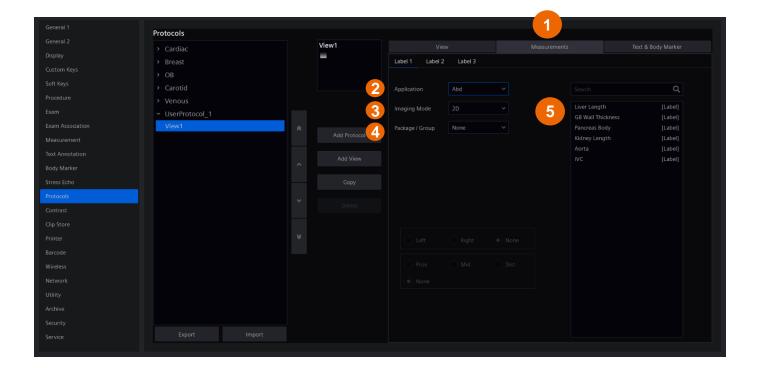
Workflow protocols acceleration package is compatible with adult and pediatric cardiac protocols.



Creating a protocol Adding a Doppler measurement



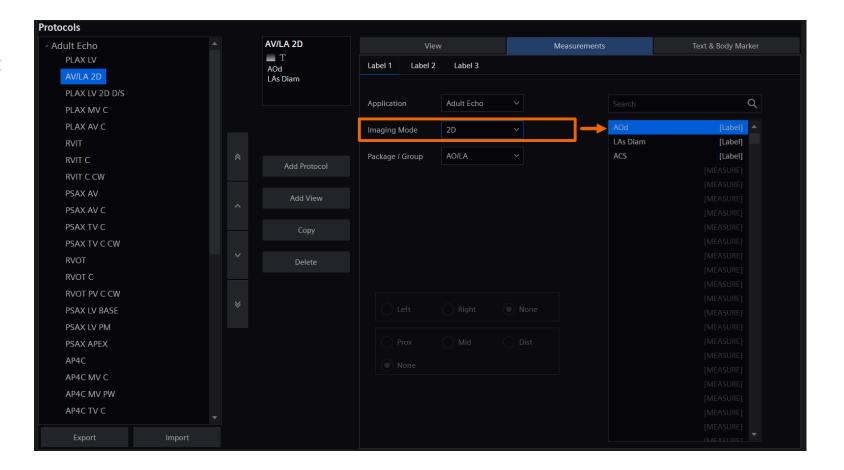
- Select Label 2 under the Measurements tab
- 2. Select **Application**
- 3. Select **Imaging Mode: Doppler**
- 4. Select Package/Group
- 5. Select desired measurement



Creating a protocol Adding a measurement



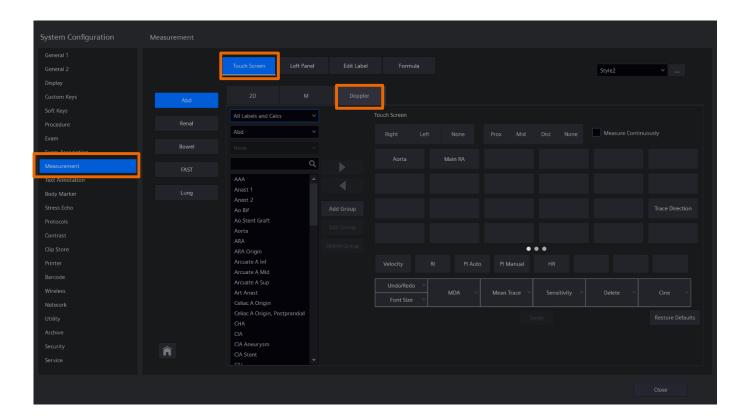
Please note: When selecting the measurement mode, only labels that are already displayed on the touch screen will be available.



Creating a protocol Adding a Measurement



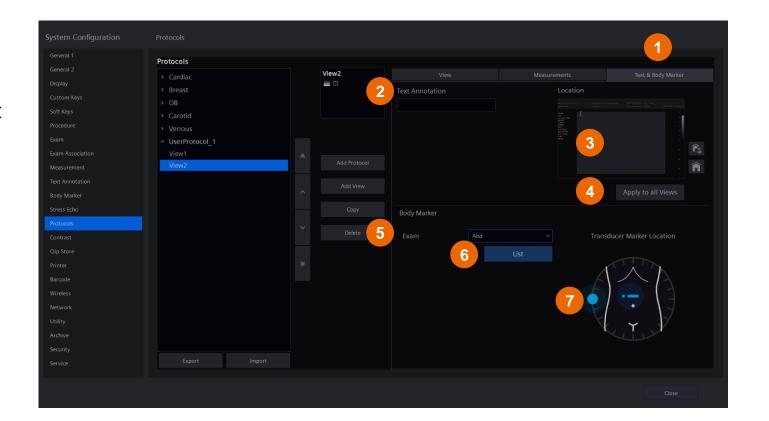
- To add more label options, select the Measurement tab in system configuration
- On the touch screen, select the desired mode tab (2D, M-mode or Doppler) and add labels
- Return to the tab; the labels will now appear in the master drop down list



Creating a protocol Adding Text & Body Marker



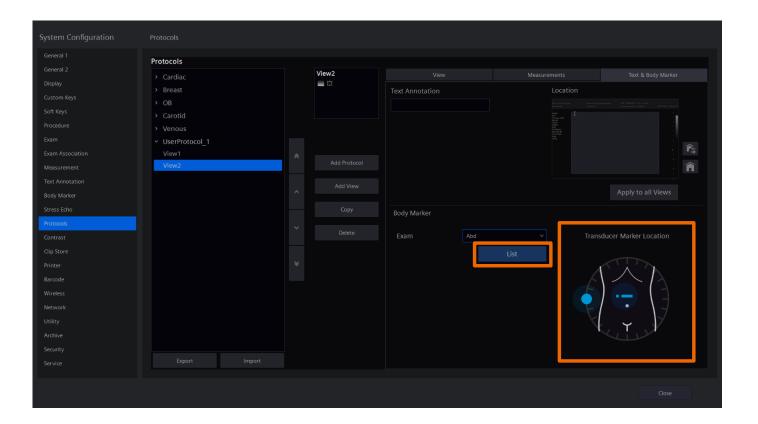
- 1. Select **Text & Body Marker** tab
- Enter Text Annotation
- 3. Click inside the screen to customize text location
- 4. Select **Apply to all Views**
- Select from Body Marker > Exam dropdown menu
- 6. Select **List** for available body markers
- Place transducer marker



Creating a protocol Adding Text & Body Marker



- The selected body marker will appear in the bottom right corner of screen
- Modify Transducer Marker Location by activating the blue circle with the pointer and adjusting
- Select Body Markers, then List to display all available body markers



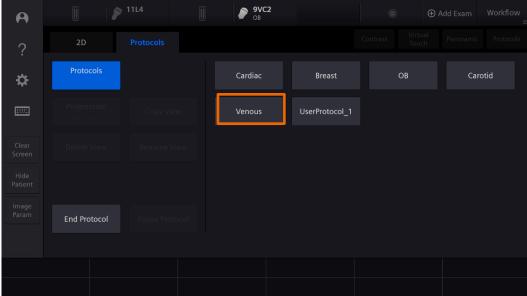
Creating a protocol



Once completed, the protocol and associated views can be visualized by selecting the \triangleright sign next to the protocol name.

The new protocol will be displayed on the touch screen along with any other existing protocols.





Modifying a protocol



- Add View to add a new view in the protocol (use arrows to change position of view)
- Copy to create an exact copy of a view
- Delete to remove a view
- Rename a view by editing View Name
- Add measurements, text, and body markers to a view



Objectives

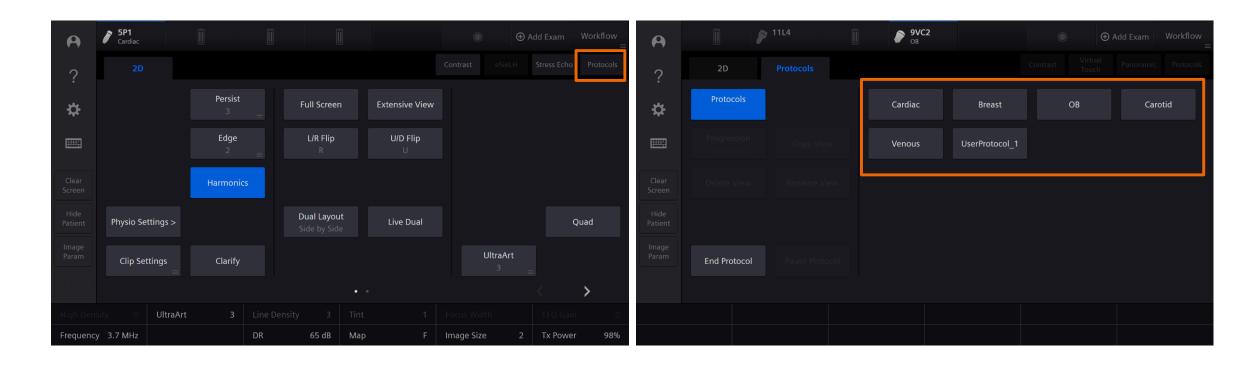


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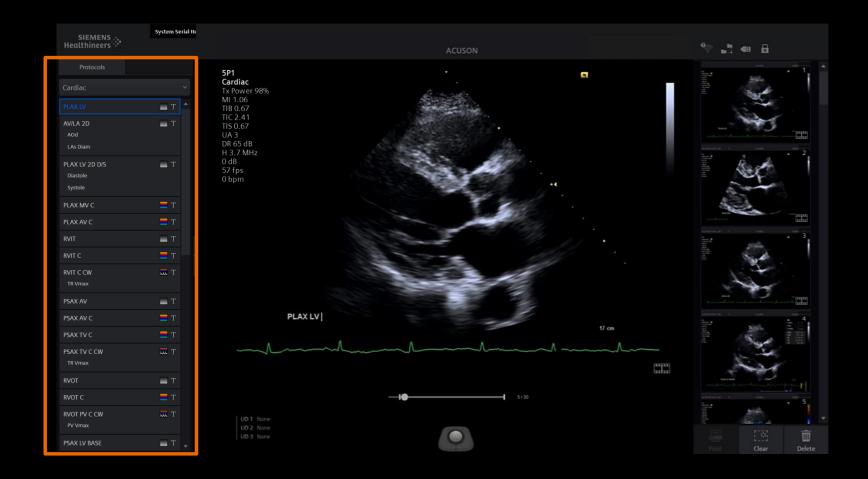


- Select tab to the right of touch screen
- Choose from list of available protocols





- Protocol views are listed on the left side of the monitor as well as on the touch screen
- The current view is highlighted in blue



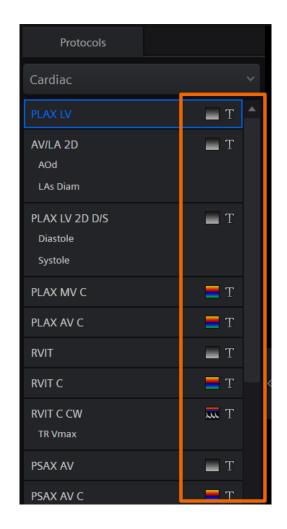


- Store a clip or frozen image to advance to the next view
- To skip a view, select the next view from the monitor or touch screen, or rotate the Select key
- At the end of a protocol, the system will return to any skipped views
- If the user chooses not to obtain the skipped views, select End Protocol





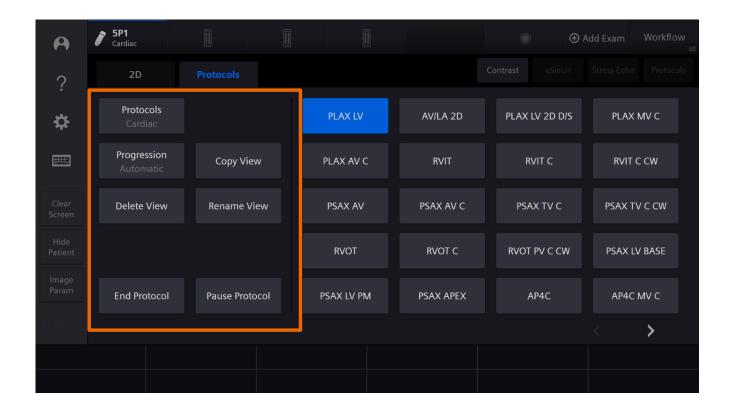
- Protocol views correspond with icons indicating the major imaging modes (2D, Color, Doppler, M-mode)
- Icons also indicate whether the view includes a measurement, text annotations and/or body marker
- Measurements within views are initiated by selecting Caliper on the control panel







- To obtain images not contained in the protocol, select Pause Protocol at any time on the touch screen or press the Set key
- Select Resume Protocol on the touch screen or press the Set key again to resume the protocol
- Additional functions include Copy View, Delete View, Rename View
- Select End Protocol to end the protocol



Summary



- Define and summarize benefits of protocols
- Create and modify a protocol
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Thank you for your enthusiasm!



Questions?

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 $^{^{}m 1}$ Personalization of diagnosis, therapy selection and monitoring, after care, and managing health.