PHILIPS EPIQ 7

QUICK GUIDE





Start Patient Exam

Begin an exam by completing the patient data, selecting a transducer, and selecting a procedure and study type.



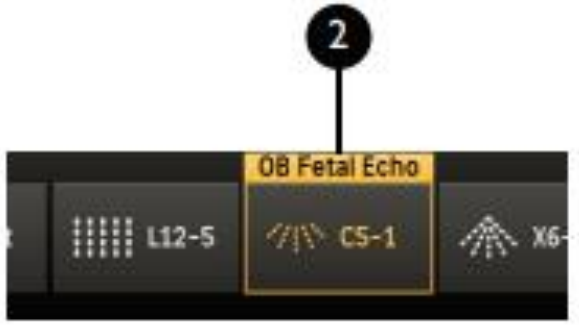
1. To begin an exam, touch **Patient**.
2. For a new patient, enter patient data. The last name is required.
   Move between fields using the **Tab** key, or use the trackball to move the cursor.
3. Select a **Procedure** and verify the **Study Type**, and then enter any study-related patient history.
4. Click **Done**. Now you can select the transducer and preset.

Select Transducer, Preset, and Imaging Mode

Presets include default image optimization, calculation options, and mode settings. Available presets are transducer-dependent. During an exam, you can switch transducers and presets as needed.



1. Connect a transducer. Names of all connected transducers appear at the top of the touch screen.
2. Touch the name of a transducer.
3. Touch one of the displayed clinical applications/presets.



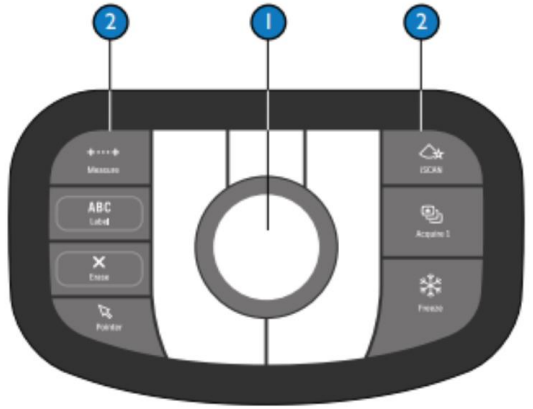
Control Panel

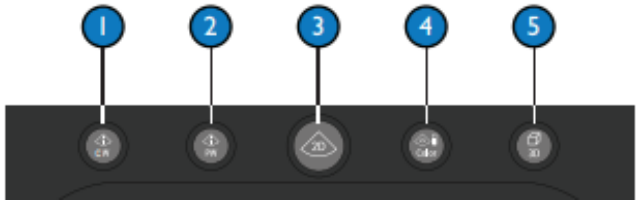
1. Touch screen
2. On/Off button
3. Sleep Mode control
4. Soft key controls
5. Imaging mode controls
6. TCG slide controls
7. **Measure**, **ABC Label**, **Erase** and **Pointer** controls
8. Trackball and trackball buttons
9. **iSCAN**, **Acquire 1**, and **Freeze** controls
10. **Zoom**, **Depth**, **Focus**, and **Acquire 2** controls
11. **Dual** control
12. **Support** control



1. Trackball and trackball buttons
2. High-use controls
3. Trackball arbitration icon (with button-function labels)



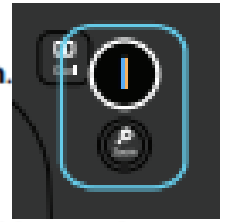




5 Imaging Modes Accessed from Control Panel

1. On EPIQ 7C, **CW** (Doppler) displays a spectrum of blood-flow information along an interrogation line. On EPIQ 7G and 7W, **CPA** (Color Power Angio) provides color amplitude information (not blood-flow-direction or velocity).
2. **PW** (pulsed-wave Doppler) displays a spectrum of blood-flow velocity information using a discrete sample volume at a specific location.
3. **2D** displays a 2D image and returns to 2D from any other mode.
4. **Color** displays directional color velocities with a 2D image.
5. **3D** displays a touch screen tab that lists the available 3D modes, which depend on the active transducer and preset.

Zoom



1. To magnify the entire image display, turn **Zoom**.
2. To magnify a specific region of interest:
   a. Press **Zoom** to display an ROI box.
   b. Adjust the size and location of the ROI box with trackball and its left and right buttons.
   c. Press the middle trackball button to magnify the contents of the ROI box.

Image Brightness

1. To automatically adjust overall brightness, press **iSCAN** or touch **AutoSCAN**.
2. To adjust brightness at various depths, use the **TGC** slide controls.
3. Turn a mode knob to adjust the gain for that mode.
4. To adjust brightness along the lateral edges of the image, use the **LGC** sliders on the touch screen.

Depth

3. To increase or decrease the field of view, turn **Depth**. The depth appears in the lower right side of the display. In the setups, you can select to display depth markers along the side of the image.

Focus

4. To improve detail in the area of interest, turn **Focus** to adjust the 2D focal depth. The focal zone indicator is to the right of the image. To change the focal range, press **Focus** and then turn the knob.

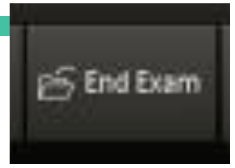


Touch Screen

1. Workflow area
2. Tabs
3. Controls
4. Soft key labels
5. Transducers and presets
6. Tools
7. Sub-mode controls (such as **Contrast**, **Biopsy**, or **Panoramic**)
8. General-purpose soft keys
9. Page indicator
10. Dynamic imaging-mode soft keys



End Exam



To end an exam:

1. Touch **Patient**.
2. Update the patient data, if necessary.
3. Click or touch **End Exam**.

2D Optimization



Several settings optimize between resolution and penetration. Available settings depend on the active transducer. Use the **2D Opt** soft key to set the fundamental imaging optimization. The fusion icon indicates the setting.

- **Res** optimizes for resolution for areas of interest at shallow depths.
- **Gen** optimizes the balance between **Res** and **Pen** settings for general imaging needs.
- **Pen** optimizes for better penetration for areas of interest at deeper depths.



To use M-mode:

1. Touch **M-mode**.
2. Use the trackball to move the M-line to the anatomy of interest.
3. In noncardiac applications, press the middle trackball button to display the trace. In cardiac applications, the trace appears automatically.
4. Use the trackball to adjust the M-line.
5. To perform measurements, press **Freeze** and begin a measurement.

Measurements and Calculations

To perform a labeled measurement or calculation from the touch screen:

1. Press **Freeze**.
2. Press **Measure** and touch the **Calc Package** tab.
3. Touch a measurement or calculation label.
4. Use the trackball to place cursors and perform measurements. The results appear on the display. Calculations results appear below the measurement results, when all of the required measurements are complete.
5. To complete the measurement and display the results in the **Calc List** and in the report, press the middle trackball button. A check mark appears on the touch screen label.



M-Mode and Doppler Measurements

To enter M-mode or Doppler and complete a measurement:

1. In 2D mode touch the **M-mode** or press **PW** or **CW**.
2. In noncardiac applications, press the middle trackball button to display the trace. In cardiac applications, the trace appears automatically.
3. Press **Freeze**.
4. Press or touch **Measure** and then **Tools** in the touch screen.
5. Touch a measurement label to display a caliper.
6. Use the trackball to position the first caliper and click to anchor it.
7. Use the trackball to position the second caliper and click to anchor it. The measurements and calculations appear in the results.
8. Click the middle trackball button to complete the measurement.

To use TDI:

1. In 2D mode, touch **TDI**.
2. To start PW TDI while in 2D TDI, press **PW**. Position the sample volume on myocardial tissue.
3. To switch between 2D TDI and M-mode, touch **M-mode**.
4. To position the interrogation line, use the trackball.
5. To optimize the image, use the soft keys.
6. To perform measurements, press **Freeze**.

Acquire Single Images and Loops

You can acquire and save a single frame or a cineloop sequence. The frame or sequence is saved in the patient study, and a thumbnail is available in the live imaging display and the Review display.

Acquire 1 and **Acquire 2** buttons can be configured to print, save images to the hard drive, and to send to PACS in the setups. For configuration instructions, see the system *Help*.



To acquire a still image:

1. Press **Freeze**.
2. Use the trackball to scroll to the frame that you want to acquire.
3. To acquire the image, press the **Acquire** control that you have configured for image acquisition.

To acquire image loops:

1. Use the **Loop Length** soft key to set the loop duration.
2. In live imaging or while reviewing a cineloop sequence, press **Acquire 1** or **Acquire 2**, depending upon how you have configured your system.

Review Images and Loops

To review the acquired images and loops of an exam:



1. Touch **Review**.
2. Use **Page** to cycle through available thumbnails.
3. Display a single image full screen or 4 images by touching **Layout.**
4. Press **Freeze** to stop playing a loop.
5. Use **Cine Speed** to adjust the speed of a loop.
6. Touch **Review** again to close review and return to live imaging.

Export Exams and Images

To export an exam in DICOM:

1. In the Patient Directory, select one or more exams. To select all exams, click **Select All**.
2. Click **Send To**.
3. In the **Send To** dialog box, select one or more destinations: **Network** or **Media**.
4. To remove identifying information from the DICOM data sent with the exam, select **Deidentify DICOM Data**.
5. To send the selected exams, click **OK**.

To export an image:

1. In the **Review** display, select one or more images.
2. Click **Send To**.
3. In the **Send To** dialog box, select one or more destinations: **Network, Media**, or **PC Format** (JPEG or AVI).
4. To remove identifying information from the DICOM data sent with the image, select **Deidentify DICOM Data**.
5. To send the selected images, click **OK**.

Move the System

WARNING

Do not drape the power cord over any of the cable hooks or the handle on the system cart. Damage to the cord or power receptacle unit can occur if the cart is raised.

1. Press to initiate Sleep Mode, or disconnect the power cord. You can also press to turn off the system.
2. Engage the wheel brakes by pressing the pedal fully down.
3. Squeeze the release button on the front handle and use the handle to center the control module and move it to a comfortable height for moving.
4. Disconnect all external cables, including those to power, network, and external devices. Secure all cables, transducers, and accessories so that they do not interfere with the wheels.
5. Retract the keyboard.
6. Lock the monitor arm by pressing the articulating sections of the arm together.
7. Release the wheel brakes and set the steering locks by moving the pedal to its top position. To release the steering lock move the pedal to its middle position.

System Setup After Moving

CAUTION

If the system behaves abnormally after moving, contact your Phillips service representative immediately. The components are installed securely and can withstand considerable jostling; however, excessive jostling can cause a system failure.

1. Position the system and set the brakes, and connect the power, network, and other cables.
2. Release the monitor from its locked transport position by pressing the release button.
3. Position the monitor.
4. Squeeze the release button on the front handle and position the control module to the position you want.
5. Press to turn on the system.



