Patient Environmental Devices

1. Peripheral Device (Signals I/O Port, Power In)
2. Front Panel (Signal I/O Port, Power Out)
3. VoiceScan USB Port
4. USB Flash Drives (2)
5. CD/DVD Drive
6. Non-Imaging Probes (if applicable)
7. Imaging Probes
8. Probe Port
9. Peripheral Devices
10. Rear Panel
11. Signals I/O Port
12. Power Out
13. Signals I/O Port
14. Footswitch Connector
15. Power In
16. Signals I/O Port
17. Power In
18. InSite (Signal I/O Port)
19. Power Telephone Line
20. Power Line (AC~)
21. Ground Line
22. Power Cable with Protective Earth
23. Footswitch

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Control Panel

1. Gel Warmer
2. Touch Panel Brightness Control
3. Touch Panel and Controls
4. TGC
5. Video
6. Audio On/Off Volume
7. Additional Feature Keys
8. Keyboard
9. Mode/Gain Keys
10. Imaging/Measurement Keys
11. Depth
12. Left/Right Keys
13. Freeze and Print Keys
14. Reverse
15. Probe and Cord Holder
16. 4D Probe Holder Attachment

Keyboard

The standard alpha-numeric keyboard has some special functions.

Esc
Exit current display screen.

Help (F1 Key)
Enter Online help / user manual.

Arrow (F2 Key)
Annotation arrow.

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Eject (F3 Key) - Eject media.
Spooler (F4 Key) - Activates DICOM Job Spooler screen.
Home/Set Home (F7 Key) - Move annotation cursor to home position; shift+key to set current annotation cursor position as the new home position.
Create a Fast Key (F5 Key) - Creates a Fast Key.
Play a Fast Key (F6 Key) - Plays a Fast Key.
Text1/Text2 (F8 Key) - Switch between user text annotation overlays.
Grab Last (F9 Key) - Activate the last selected data for edit.
Word Delete (F10 Key) - Erase word associated with comment cursor.

**Touch Panel**
The Touch Panel contains exam function and mode/function specific controls.

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Exam Function Controls

1. Patient: Enters Patient screen
2. Scan: Enters scanning mode screen
5. Utility: Activates system configuration menus.
6. Preset: Selects the application to use.
7. Probe Indicator: Indicates and selects the probes.
Mode/Function Specific Controls

In general, the key name is indicated at the top of the key. There are different types of Touch Panel keys as illustrated below:

1. Press to toggle control on/off.
2. Progress/Select keys are used for controls that have three or more choices.
3. Progression keys are used to assess the impact of the control on the image progressively.
4. Rotate the knob below the Touch Panel to set values.
5. Press the knob below the Touch Panel to select additional control, then rotate the knob to set values.
6. Press to move to the next Touch Panel page.

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Mode, Display and Record

This group of controls provides various functions relating to the display mode, display orientation, image recording/saving, freeze, gain and Cine scroll.

The Mode Controls select the desired display mode or combinations of display modes.

- During dual display modes the L and R keys activate the Left or Right displayed image.

- B Pause freezes the B-Mode image while keeping the Doppler spectrum display active.

- Auto is used to:
  - initiate auto optimize
  - turn off the auto mode.

- B Flow activates/deactivates the B Flow scan.

- Depth controls the image display depth.

- The Reverse key toggles the left/right orientation of the scan image.

- Record keys are used to activate/print the designated recording device (e.g. video page printer, multi-image camera, image archive option).

- The Freeze key is used to stop the acquisition of ultrasound data and freeze the image in system memory. Pressing Freeze a second time continues live image data acquisition.

- To activate a specific mode, press the appropriate mode key.

Each mode has its own gain control via the larger gray knob surrounding the mode key.

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Measurement and Annotation

This group of controls performs various functions related to making measurements, annotating and adjusting the image information.

- The Comment key enables the image text editor and displays the annotation library Touch Panel.
- The Clear key is generally used to erase functions, such as annotations/comments and measurements. Pressing the Clear key again exits the selected function.
- The Body Pattern/Ellipse control has a dual purpose:
  - When the Body Pattern/Ellipse control is pressed, it enables the Body Pattern Touch Panel and displays the default pattern on the screen. When body patterns are active, the knob rotates the probe position indicator.
  - When the Body Pattern/Ellipse control is adjusted, it activates the ellipse measurement function after the first distance measurement has been set and the second caliper is activated.

Press Set to fix the measurement after the ellipse adjustment is complete. The measurement is then displayed in the measurement result window.

- The Measure key is used in all types of basic measurements. It also becomes the “mouse” arrow for making selections along with the Set key (to fix or finish a selection). When the Measure key is pressed, the measurement Touch Panel is displayed.

- The Zoom control has a dual purpose:
  - When the Zoom control is pressed, it activates the write zoom function.
  - When the Zoom control is adjusted, it is used to activate the read zoom function.

- The M/D Cursor key enables Trackball control of the M-Mode or Doppler cursor line (not angle correction) or the CFM window in real-time Color Flow Mode.

Source: GE Logiq 9 Manual, Copyright 2009
Measurement and Annotation

This group of controls performs various functions related to making measurements, annotating and adjusting the image information.

- The Scan Area key enables Trackball control of the B-Mode image area size and position in B/W, the CFM window size and position in Color mode and the Zoomed area size and position in Zoom.

- The Set key is used for various functions, but is generally used to fix or finish an operation (e.g. to fix a measurement caliper).

- The programmable Set key allows you to program the key’s functionality (Pointer, Set or Freeze). The Program Key Mapping preset is located on the Utility -> System -> General preset menu and requires system reboot after.

- The Trackball is used with almost every key function in this group. Trackball control depends on the last key function pressed.

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