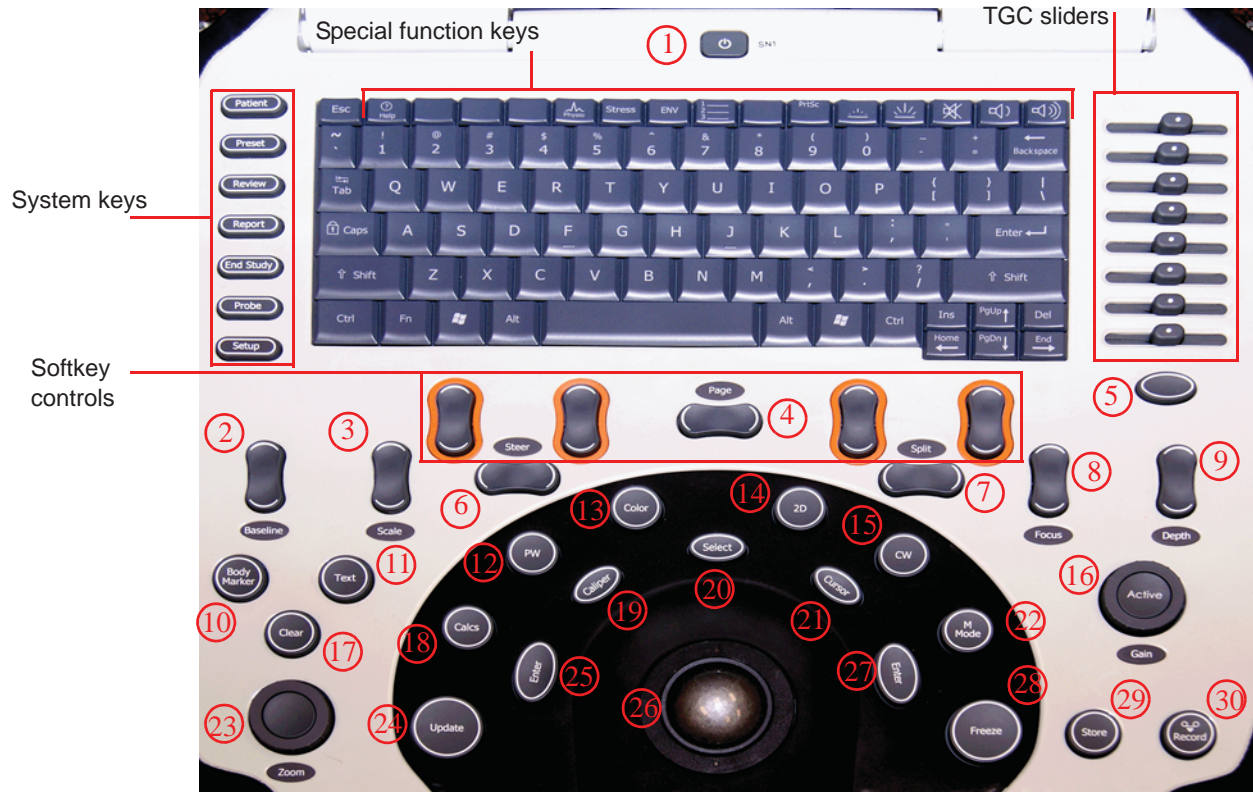


The uSmart3300 Console

A console houses controls that configure and operate the Terason Ultrasound system.



- | | | | |
|-----------------|-------------------------|------------------|---------------------|
| 1: Power button | 9: Depth key | 17: Clear key | 25: Left Enter key |
| 2: Baseline key | 10: Body Marker key | 18: Calcs key | 26: Trackball |
| 3: Scale key | 11: Text key | 19: Caliper key | 27: Right Enter key |
| 4: Page key | 12: PW mode key | 20: Select key | 28: Freeze key |
| 5: Unassigned | 13: Color mode key | 21: Cursor key | 29: Store key |
| 6: Steer key | 14: 2D mode key | 22: M-Mode key | 30: Record key |
| 7: Split key | 15: CW mode key | 23: Zoom control | |
| 8: Focus key | 16: Gain/Active control | 24: Update key | |

Terason Console

Console Controls

The console includes an alphanumeric keyboard, a group of system keys, TGC sliders, softkey controls, and numerous controls for ultrasound imaging functions.

Ultrasound Imaging Controls

The numbered controls in the illustration [Terason Console](#) perform the functions listed below:

- 1. Power:** Starts the system and shuts it down.

2. **Baseline:** Changes the Doppler baseline in PW, CW and Color Doppler modes. Pressing the top of the key moves the baseline up, and pressing the bottom of the key moves it down.
3. **Scale:** Changes the velocity scale (by changing the PRF) in PW, CW and Color Doppler modes. Pressing the top of the key increases the PRF, and pressing the bottom of the key decreases it.
4. **Page:** Changes which set of active softkeys are displayed.
5. This key is currently unassigned.
6. **Steer:** In 2D, Color Doppler or PWD modes, this key steers the ultrasound signal. Pressing the left end of the key steers left, and pressing the right end steers right.
7. **Split:** Pressing the left end of the key opens split-screen with the left screen active, or when split screen is already on, makes the left screen active. Pressing the right end of the key opens split-screen with the right screen active or makes the right screen active. Pressing the end of the key that corresponds to the active screen exits split-screen.
8. **Focus:** Changes the depth of the signal focus. Pressing the top of the key moves the focus up, and pressing the bottom of the key moves it down.
9. **Depth:** Changes the total image depth. Pressing the top of the key moves the image depth up, and pressing the bottom of the key moves it down.
10. **Body Marker:** Inserts body markers in the scan.
11. **Text:** Enables text entry and annotation on the scan.
12. **PW:** Enters and exits Pulsed-wave Doppler mode.
13. **Color:** Enters and exits Color Doppler mode.
14. **2D:** Enters 2D mode.
15. **CW:** Enters and exits Continuous-wave Doppler mode.
16. **Gain/Active:** Turning the knob changes the gain. Pushing the Active button toggles between the active scanning modes and the softkeys associated with those modes.
17. **Clear:** Erases the currently selected annotation or measurement.
18. **Calcs:** Opens the Calculations menu.
19. **Caliper:** Starts a generic measurement. Pressing the key repeatedly cycles through available calculations.
20. **Select:** Chooses a trackball function. The selected function is highlighted in blue above the softkey display.
21. **Cursor:** Selects and displays or deselects and hides the ultrasound cursor.
22. **M-Mode:** Enters and exits M-Mode.
23. **Zoom:** Push to enter ROI box Zoom, or exit Zoom mode. Turn for Quick Zoom
24. **Update:** Turns updating of the 2D image on and off in PWD and CW modes.
25. **Left Enter:** Selects and deselects items. When the Windows screen is active, the Left Enter key acts like the left button on a mouse.

- 26. **Trackball:** Controls movement of the cursor, the ROI, and other features.
- 27. **Right Enter:** Opens context menus. When the Windows screen is active, the Right Enter key acts like the right button on a mouse.
- 28. **Freeze:** Freezes and unfreezes the scan.
- 29. **Store:** Stores a single-frame image.
- 30. **Record:** Stores a loop.






System Keys

At the top left of the console is a group of system keys that control what the windows are active. They are:

- **Patient** – Opens the Patient window
- **Preset** – Opens the Preset menu
- **Review** – Opens the Review window
- **Report** – Opens the Report window
- **End Study** – Closes the current study
- **Probe** – Opens the Imaging window
- **Setup** – Opens the Setup window

Special Function Keys

At the top center of the console is a keyboard that includes the standard set of computer keys, except for the Function keys. A special set of function keys comprises the top row of the keyboard. These special keys are:

- **Help** – Opens the online Help file
- **PrtScr** – Copies the screen to the Windows clipboard
-  Reduces screen brightness
-  Increases screen brightness
-  Mutes sound volume
-  Decreases sound volume
-  Increases sound volume

Softkeys

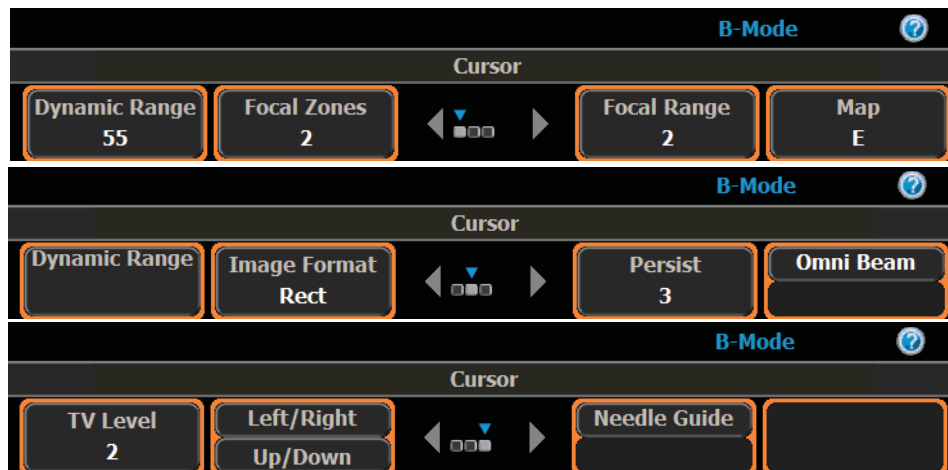
The keys just below the keyboard control the functions of the softkeys displayed across the bottom of the Imaging window. The softkey functions are dependent on what probe is connected, which scanning mode is chosen, and whether the scan is live or frozen.

The illustrations below show examples of the softkeys when the image is live and frozen.

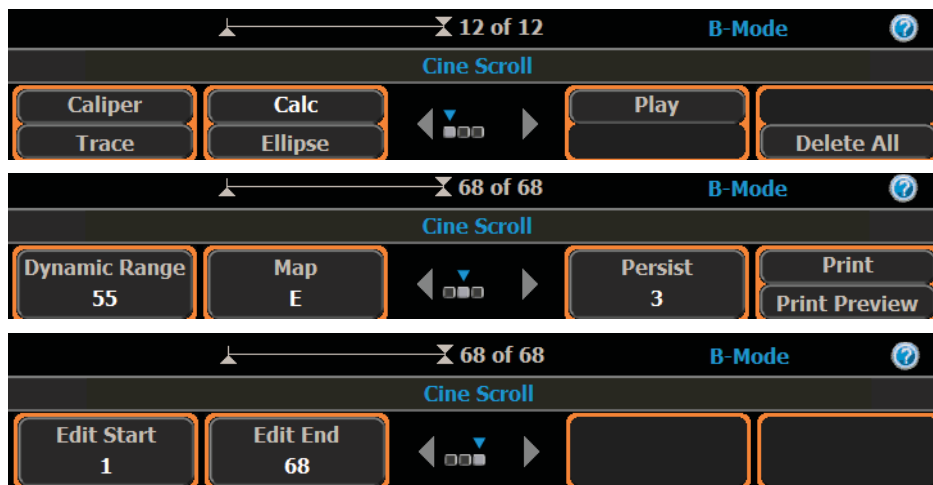


Note: The softkeys the system displays depend on the probe that is connected, the selected scan mode, and the selected exam. **The display you see may differ from the illustrations in this guide.**

Example Softkeys



Example Live Image Softkeys



Example Frozen Image Softkeys

Beep Codes

The Terason Ultrasound system produces beeps when certain events occur. The following list explains the meaning of the different beep codes.

- **Two short beeps:** Produced when a probe is connected or disconnected, or when the system is started with a probe already connected.
This is only a notification; it is safe to use the system.
- **Eight beeps:** Produced when communication between the computer and the ultrasound engine is lost.
If the imaging function resumes, it is safe to use the system. If the imaging function does not resume, restart the ultrasound software. If the error persists, stop using the system and contact Terason Technical Support.
- **Two-tone beeps:** Indicates that the system detected and corrected an internal transmitter timing error.