


Probo

VETERINARY

MINDRAY ANIMAL VETUS E5 QUICK GUIDE



 probomedical.co.uk

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 **mindray**
animal care

Preparing a Patient

To get the best from your machine it is advisable to prepare the patient before the scan. We recommend carrying out this process outside the ultrasound room to reduce the chance of clipped hair entering the machine.

- 1) Clip as needed and clean the skin with a mild soap to degrease the skin before applying gel. It can take few minutes for the gel to soak in before you achieve the best image. Degreasing may not be required in all patients.
- 2) Apply more gel to the probe, and patient if necessary, when ready to scan.
Warm gel is absorbed faster.
- 3) If using alcohol, for example when performing a FAST scan or sampling, it is recommended to cover the probe. Use a glove or specific transducer cover with gel inside then apply alcohol to the patient.

Performing an Exam

Before turning the system on, ensure the probe is connected by sliding it into one of the probe ports on the side until it clicks into place with the logo facing up and the socket is switched on at the wall.

The magnetic power cable can be attached to the back of the system and only connects one way.

- 1) Press Power button at the top left of the console to turn the system on.
- 2) Press Info button on the left of the console to enter patient details, make sure select the correct species, use the mouse cursor to click Done.
- 3) Press Probe button on the left of the console to choose between probes and display available presets. Select the relevant preset using the mouse cursor, you are now ready to begin your scan.
- 4) Please see below console diagrams to find image optimisation controls, measurements, and save buttons for still images and cine loops.
- 5) Once you have completed the exam, press the End Exam button on the lower left of the console.

Reviewing Exams

- 1)** To access previous exams for review or export, select iStation from the Patient screen or on the keyboard.
- 2)** Double click on a patient to open the exam for review.
- 3)** You will see a thumbnail overview of the images of the exam. Double click on any to reopen the exam.
- 4)** You can navigate through the images by selecting the thumbnails at the side of the screen or the up and down arrows on the keyboard.

Exporting Images via USB

- 1)** Insert the USB device into one of the ports on the left hand side of the console.
- 2)** To access previous exams for review select iStation from the Patient screen or on the keyboard.
- 3)** Single click to highlight the exam for export.
- 4)** Choose Send Exam from the drop down menu or the side of the screen to export.
- 5)** You will be given the option to choose the send location e.g. a USB memory stick, the image format and whether or not to export a report.
- 6)** Click OK to send the exam.
- 7)** If transferring files to a USB device, make sure to safely eject it by clicking the USB icon at the bottom of the main screen before removing it from the port.

Console Overview



- 1) **Power Button** – Press to turn machine on. While powered on press for power options including shut down.
- 2) **Info** - Animal info screen to enter patient details. Ensure you select the correct species as this will determine the presets you can choose.
- 3) **Probe** - Change probe and/or preset.
- 4) **Report** – Report editor.
- 5) **End Exam** – End current exam.
- 6) **ABC (comment)** – Press to activate comment mode. Select using cursor on main screen. You may also type on the keyboard without pressing this button to add custom annotations.
- 7) **Body mark** – Press to activate body mark mode. Not typically used in the UK.
- 8) **iStation** – Database of all past exams.
- 9) **User Programmable Button** – See bottom of main screen for set function.

- 10) Angle** – Used finger on touch sensitive area for angle correction or to change arrow annotation orientation.
- 11) Clear** – Single press to remove comments, annotations and measurements in reverse chronological order. Long press to clear all.
- 12) Cursor** – Brings up mouse cursor on screen.
- 13) CW** – Continuous wave doppler (phased array probes only).
- 14) M – M Mode.** Press once to activate M mode cursor, use trackpad to adjust position and press M again or update to enter M mode. Rotate main gain dial to change M mode gain.
- 15) PW** - Pulsed Wave Doppler. Press once to activate sample volume, use trackpad to position and press PW again or update to enter pulsed wave doppler. Rotate to change PW gain.
- 16) Set** – Mouse click, may change function depending on active mode. See bottom of main screen for current function if different.
- 17) Set** – Mouse click, may change function depending on active mode. See bottom of main screen for current function if different.
- 18) Trackpad** – Used to control cursors and region of interest position and size. Can tap to click.
- 19) Measure** – Labelled measurement and calculation packages. Select from main screen.
- 20) Update** – Switch live mode e.g. toggle between live spectral doppler and live B mode.
- 21) PD** – Power Doppler. Press to activate Power Doppler window. Rotate main gain dial to change Power Doppler gain. Press set (click) button to change trackpad function between changing window position and size.
- 22) Quad screen** – Press to activate, press again to change active screen, press B or single screen to exit.
- 23) Single screen** – Press to enter current live window in dual or quad screen.
- 24) C** - Press to activate Colour Doppler window. Rotate main gain dial to change Colour Doppler gain. Press set (click) button to change trackpad function between changing window position and size.
- 25) Caliper** – Generic measurement tools with two point caliper as default. Select other options from main screen.
- 26) B** – B Mode. Press to return to B mode from any other mode.
- 27) iTouch** - Press to optimise the current image, press again to reoptimise. Double press or long press to deactivate.
- 28) Gain** – Use finger on touch sensitive area to adjust gain for current active mode.
- 29) Freeze** – Press to freeze/unfreeze the image. Use trackpad to scroll through frame buffer while frozen.
- 30) Save 1** – Save still image.
- 31) Save 2** – Save cineloop.

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32) Zoom – Use up/down button to zoom in or out of current image (read zoom). Press magnifying glass for region of interest zoom (write zoom - best quality), press again to exit zoom or press B.

33) Depth – Use up/down button to decrease or increase depth.

34) User Programmable Button – See main screen for set function.

35) Dual screen – Press to activate, press again to change active side, press B dial to exit.

36) TGC – Time gain compensation controls. Change the gain at different levels. Touch sensitive area with reset button. Recommended to move finger from top to bottom in shape desired rather than changing individual sliders.

37) Soft keys – Current function shown at bottom of screen. Image quality controls frequency. Pen = Low, Gen = Mid, Res = High and if there is a H prefix it indicates harmonic mode is on, this can be toggled with BTHI.

38) Mode select – Change soft key function page or between different imaging mode controls.

39) Power indication lights



Keyboard Overview



1) Escape key

2) F buttons – user programmable.

3) iHelper - Press to activate and then choose mode from screen.

4) Qsave – **CAUTION:** Overwrites current preset with current parameters.

5) Stress echo – Press to enter Stress Echo.

6) Physio – Press to show/hide ECG trace.

7) Setup – Press to enter/exit Setup menu. **CAUTION:** Do not make changes without consulting Probo Medical/Veterinary.

8) Biopsy – Activate biopsy guide lines, for use with biopsy guide.

9) Set home – Set home position for comments cursor.

10) Home – Move comments cursor to home position.

11) iZoom – Enter/exit full screen scanning.

12) Arrow keys – Move text cursor and cycle through saved images. Press Fn to change screen brightness and contrast.

13) Arrow – Arrow annotation for images.

**In need of a service for
your Vetus E5 system?**

**Or need to get in touch
with us about a fault?**

Our knowledgeable and friendly
ultrasound servicing experts are happy to
help...



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