

Probo

VETERINARY

MINDRAY ANIMAL VETUS 5, 7 & 8 QUICK GUIDE



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 for all patients
- 2) when ready to scan, apply more gel to the probe, and patient if necessary
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 probes are connected and locked in place, the power cable is inserted, and the socket switched on at the wall.

- 1) Press Power button at the top left of the console to turn the system on
- 2) Press Patient button on the mid left of the console to enter patient details. Make sure to select the correct species from the drop down menu. Begin the exam by clicking on OK using one of the set buttons. A physical keyboard is found under the console and can be extended by pushing in before releasing
- 3) Press Probe button on the mid left of the console to bring up presets on the touchscreen. Do this to view the current probe or tap the probe you wish to use on the touchscreen. Select the relevant preset, you are now ready to begin your exam
- 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 from 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 with the up and down arrows on the keyboard

Exporting Images via USB

- 1)** Insert the USB device into the port on the front of the console found under the rubber cover
- 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) **Volume dial**
- 3) **Soft keys** - Current function is shown at bottom of touchscreen
- 4) **TCG** - Time gain compensation controls. Change the gain at different depths
- 5) **Patient info** - Animal info screen to enter patient details. Ensure you select the correct species as this will determine the presets you can choose
- 6) **Probe** - Change probe and/or preset
- 7) **Review** - Review stored images
- 8) **Report** - Report editor
- 9) **End exam** - End current exam
- 10) **ABC text** - Press to activate comment mode. Select from touch screen or main screen. You may also type on the keyboard without pressing this button to add custom annotations
- 11) **Clear** - Single press to remove comments, annotations and measurements in reverse chronological order. Long press to clear all
- 12) **Cine** - Press to enter Cine Review
- 13) **Body mark** - Press to activate body mark mode. Not typically used in the UK
- 14) **M** - M Mode. Press to activate M mode cursor, use track ball to position and press again to enter M mode. Rotate to change M mode gain

- 15) CW** – Continuous Wave Doppler (phased array probes only). Press once to activate cursor, use track ball to position and press again to enter CW Doppler. Rotate PW gain dial to change CW gain
- 16) PW** - Pulsed Wave Doppler. Press once to activate sample volume, use track ball to position and press again to enter pulsed wave Doppler. Rotate to change PW gain
- 17) Power** - Power Doppler. Press to activate Power Doppler window, use trackball and set keys change between moving or adjust window size. Rotate Colour gain dial to change Power Doppler gain
- 18) Colour**– Colour Doppler. Press to activate Colour Doppler window, use trackball and set keys change between moving or adjust window size. Rotate to change colour Doppler gain
- 19) Dual screen** – Press to activate, press again to change active side, press B dial to exit
- 20) B** – B Mode. Rotate to change overall gain (brightness) of the image. Press to return to B mode from any other mode
- 21) Single screen** – Press to enter active window in dual/quad screen
- 22) 4D** – Press to enter 4D mode. Rotate to rotate 3D image. Requires 3D/4D probe
- 23) 3D** – Press to enter 3D mode. Requires 3D/4D probe
- 24) iTouch** - Press to optimise the current image, press again to reoptimise. Double press or long press to deactivate
- 25) Angle/Steer** – Rotate for angle correction, to steer window in colour or power Doppler (linear probes) or to change arrow annotation orientation
- 26) Measure** – Labelled measurement and calculation packages. Select from touch screen or main screen
- 27) Update** – Switch live mode e.g. toggle between live spectral Doppler and live B mode
- 28) Caliper** – Generic measurement tools with two point caliper as default. Select other options from touch screen or main screen
- 29) Zoom** - Press then rotate to zoom, press again to exit zoom
- 30) Quad screen** – Press to activate
- 31) Depth** – Rotate to change depth
- 32) Focus position** – Press up/down arrows to change focus position
- 33) Cursor** – Show/hide mouse cursor
- 34) Set** – Mouse click, may change function depending on active mode. See bottom of main screen for current function if different
- 35) Trackball** – Used to control cursors and region of interest position and size
- 36) Set** – Mouse click, may change function depending on active mode. See bottom of main screen for current function if different
- 37) Freeze** – Press to freeze/unfreeze the image. Use trackball to scroll through frame buffer while frozen
- 38) Save** – Save still image in configured way. Default is a still image
- 39) P** – User defined key. Typically set as a retrospective cine loop
- 40) Print** – Print image. Requires thermal printer
- 41) Status indicator lights**
- 42) Physical keyboard** – Press in under the console to release physical keyboard

Touchscreen Overview

B mode
Other mode controls such as M mode will be found here as a tab while active

Cine
Cine controls

Arrows
Use to access additional image settings

Advanced image optimisation controls

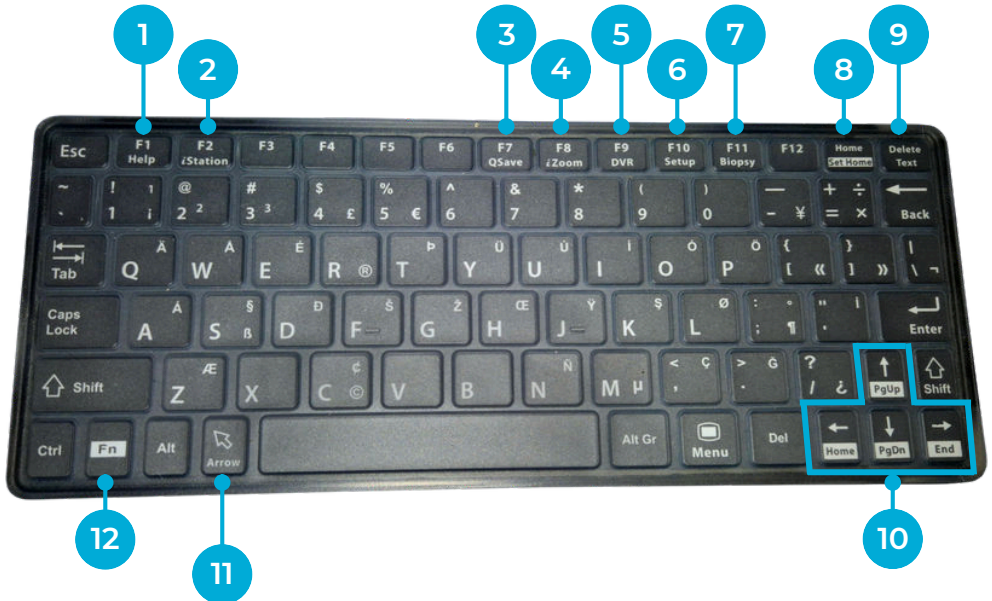
Probes
Change probe and/or preset

Basic image optimisation controls
Use physical dial below each option to adjust. **On Vetus 7 & 8** Image Quality is frequency control. Pen = Low, Gen = Mid, Res = High and if there is a H prefix it indicates harmonic mode is on. Press dial to toggle harmonic on or off.

Recent probes and exam modes
Quickly switch back to previous setting

The diagram shows a touchscreen interface with a central grid of controls. At the top left is a '6C2s' probe icon. Below it are 'B' and 'Cine' tabs. To the right are left and right arrow buttons. A 'Recently' panel on the right shows '6C2s Canine(5-15 kg) A...'. The main grid contains: 'iWorks', 'iScape View', 'Free Xros M', 'U/D Flip', 'L/R Flip', 'Dual Live', 'FOV', 'ExFOV Off', 'Rotation', 'LGC', 'iBeam', 'iClear', 'Focus Number', 'A.power 96.6%', 'Dyn Ra. 120'. Below the grid are 'Img Qual.', 'Persistence', 'Tint Map', and 'Gray Map' sections with physical dials. The 'Basic image optimisation controls' callout points to these dials.

Keyboard Overview



- 1) **Help** - Opens the manual
- 2) **iStation** - Database of all past exams
- 3) **QSave** - **CAUTION:** Overwrites current preset with current parameters
- 4) **iZoom** - Enter/exit full screen scanning
- 5) **DVR** - Enter/exit DVR mode
- 6) **Setup** - Press to enter/exit Setup menu. **CAUTION:** Do not make changes without consulting Probo Medical/Veterinary
- 7) **Biopsy** - Activate biopsy guide lines, for use with biopsy guide
- 8) **Home/Set home** - Move cursor to home position. Or while holding Fn set home position for comments cursor
- 9) **Delete word** - Delete all comments on the screen
- 10) **Arrow keys** - Move text cursor and cycle through saved images
- 11) **Arrow** - Enter/exit arrow annotation mode. Use confirm (click) buttons to set arrow
- 12) **Fn** - Function key

**In need of a service for your
Vetus 5, 7 or 8 system?**

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

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



ultrasound.service@probomedical.co.uk



www.probomedical.co.uk



0333 004 7657

Probo
VETERINARY

