



E.I. MEDICAL IMAGING

IMPORTANT

Thank you for purchasing E.I. Medical Imaging's new SA² veterinary ultrasound! We know you're going to love it, and it's important to us that you know we are here for you.

Our main office and service department can be reached at 1-866-365-6596 from 8-5MT.

Please visit our website at https://www.eimedical.com to find more great resources.

E.I. Medical Imaging Proprietary and Confidential—Do Not Copy or Distribute. For Internal Use Only.

Copyright[©] 2023 E.I. Medical Imaging[®]. All rights reserved.

The information presented in this manual is subject to change without notice and does not represent a commitment on the part of E.I. Medical Imaging. The hardware and software described herein are furnished under a license or nondisclosure agreement. The hardware, software, and manual may be used or copied only in accordance with the terms of this agreement. It is against the law to reproduce, transmit, transcribe, store in a retrieval system, or translate into any medium—electronic, mechanical, magnetic, optical, chemical, manual, or otherwise—any part of this manual or software supplied with the IBEX SA² for any purpose other than the purchaser's personal use without the express written permission of E.I. Medical Imaging.

E.I. Medical Imaging, the E.I. Medical Imaging Logo, IBEX, EVO, SA², Insite, and Durascan are registered trademarks of E.I. Medical Imaging. EVOStream is a trademark of E.I. Medical Imaging. All other brand or product names are trademarks or registration trademarks of their respective companies or organizations.

Supporting Software Version [minimum]: 1.5.0.1

Contact Information E.I. Medical Imaging 815 14TH ST SW, UNIT C210 LOVELAND CO 80537 toll-free/1.866.365.6596 phone/970.669.1793 fax/970.669.1902 https://www.eimedical.com/ E-mail: info@eimedical.com

TABLE OF CONTENTS

Important	i
Contact Information	i
Table Of Contents	ii
Key Features	1
Intended Uses	1
Getting To Know Your IBEX [®] SA ²	2
Physical Interfaces	2
Installing The Battery	3
Attaching Transducers	4
Charging The Battery	4
Powering The System On	4
interacting With IBEX SA ²	5
Keyboard	5
Screen Layout	8
On-Screen Menus	10
Menu	10
Moving Around The Screens	11
Miscellaneous Options Menu	12
Display Options Menu	12
MEASURE Menu	13
AUDIO Menu	13
IMAGE/VIDEO Menu	14
Customizing User Presets	15
Customizing Annotations	15
Performing a Factory Reset	15
Performing a Software Update	15
Starting An Exam	16
Creating New Patient	16
Selecting Existing Patient	16
Choosing Exam Type	17
Adjusting the Image	17
Ending Patient Exam	20

Managing Images	21
Freezing Images	21
Saving Images and Cineloops	21
Recalling Images and Cineloops	24
Deleting Images	24
Assign to Patient/Patient to Patient	25
Assign to Patient/Add Files to Patient—Patient Window	25
Assign to Patient—Review Image/Video	26
Patient to Patient	27
Using Measurements [Linear, Area] and Annotations	29
Taking Distance Measurements	29
Applying A Gestation Table To A Linear Measurement	29
Taking Area Measurements	29
Adding Text Labels to Images	30
NAVIGATING THE REVIEW MENU	32
Editing Images	32
Reporting Images	32
Recalling Saved Images and Cineloops	32
Recalling Images and Cineloops	33
Deleting Images	33
Quick Access Bar	34
Exporting Images	35
FILE SHARING	36
Setting Up the SA ²	36
From Your Computer	36
EVOStream™—Sharing Live Images	38
Connecting Over WiFi Direct	39
Configuring iPhone or iPad	40
Configuring an Android™ Device	40
Enabling Bluetooth	41
RFID Support	41
APPENDIX	42
FCC Regulatory Information	1
System Specifications	5
Warranty	7

KEY FEATURES

The IBEX SA² Portable Ultrasound is flexible and easy to use.

- IBEX SA² advanced imaging software
- Full range of imaging modes: B, B+M, PW, Color Doppler
- Ruggedized transducers 2-14 MHz
- Fast boot time for more uptime
- Customized, veterinary-specific exam presets
- WiFi remote scanning app
- 12.1 inch sealed, sunlight-readable LCD Display
- Sealed, LED backlit keyboard
- 2+ hour battery run time (field swappable)
- Lightweight 7.5 lbs (2.8 kg)
- Engineered with DuraScan[®] technology
- Continuous record, color doppler, pulse wave doppler, multibeam, harmonic imaging, preset exam types—speckle reduction

Intended Uses

The IBEX SA² is intended for veterinary use with companion animals.

Essential System Performance

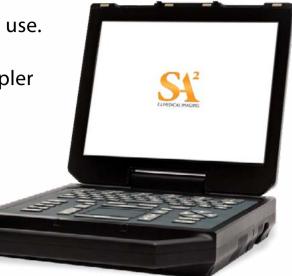
- Provides 2D ultrasound echo and flow imaging as an aid in diagnosis.
- Performs simple geometric measurements and calculations.
- Free from artifacts or distortion in the image or error of a displayed value, which can be attributed to a physiological effect and which may alter the diagnosis.
- Displays correct numerical values associated with the diagnosis to be performed.
- Does not generate unintended or excessive ultrasound output or transducer surface temperature.

The IBEX SA² is intended for diagnostic ultrasound imaging or fluid flow analysis of animals, data processing and guidance of OPU and collection needles.

The system is for veterinary use only.

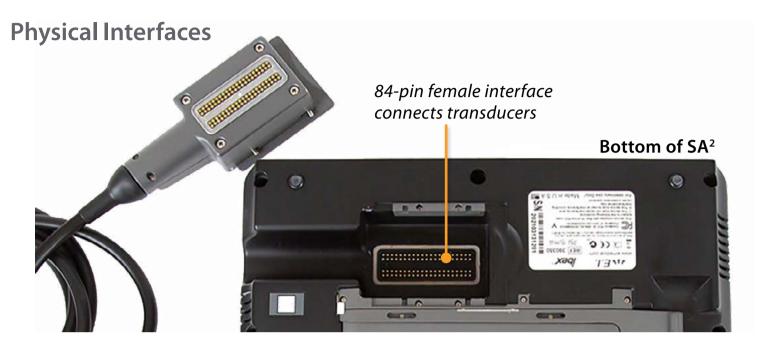
Modes of Operation

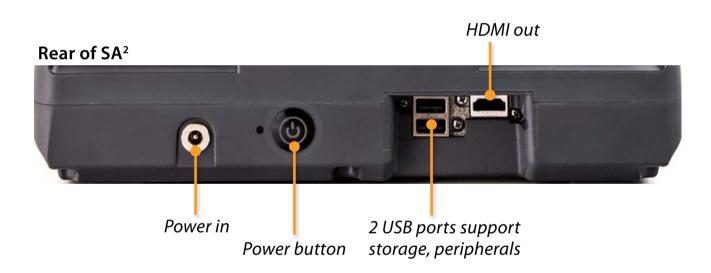
- B
- B+M
- PW
- Color Doppler



GETTING TO KNOW YOUR IBEX® SA²

Please read all the instructions and warnings found in the *IBEX SA² Quick Reference* before using.

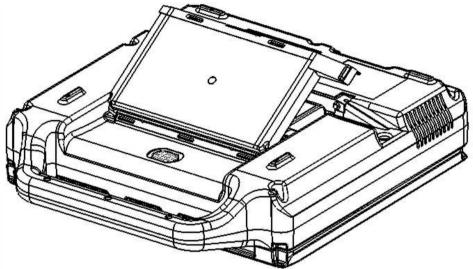




Installing The Battery

The IBEX SA² system houses the battery in a water-resistant system access compartment. To seal the compartment:

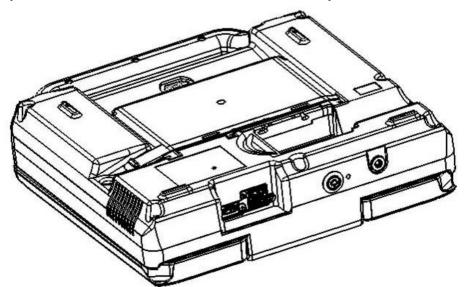
1 Slide the silver latch to the right and lift the handle which extends over the edge of the IBEX SA².



- 2 Remove the cover
- Insert the new battery pack by angling it into the compartment; aligning the spade connector on the IBEX SA² with the slots on the battery, ensuring connection.
- 4 Angle the battery door to panel tabs with the metal strip.



- 5 Slide the metal latch towards the left until it clicks into the locked position.
- 6 Close the panel until it clicks into the locked position.

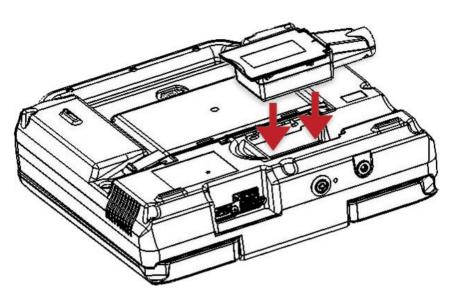


Attaching Transducers

To attach a transducer:

- 1 Lift the probe cover latch to open position.
- 2 Align the metal engagement rods with the metal slots on the system side of the female connector.
- **3** Press the connector in place to seat.

CAUTION It is **CRITICAL** to **POWER-OFF** or **FREEZE** the scanner before changing the transducer. Failure to do so may cause unexpected behavior.



Charging The Battery

To charge the battery:

- 1 Ensure that the battery is installed in the system. [If it is not already installed, see the instructions for installing the battery in the *IBEX SA² Ultrasound User Guide*]. Slide the latch to the lock position to ensure the system access door is properly sealed.
- 2 Connect the AC adapter to the IBEX SA² system.
- 3 Plug the adapter into a 100-240 VAC outlet.

During the charge cycle the yellow light illuminates indicating the charging process is underway. As the battery reaches its full charge, the light switches off which indicates the battery is at full charge.

The total charge time will range between 120 and 180 minutes from a totally drained battery to a fully charged battery.

NOTE Do **NOT** use the AC adapter during outdoor operation.

Powering The System On

The power button is located on the back of the unit—press to power on the IBEX SA².

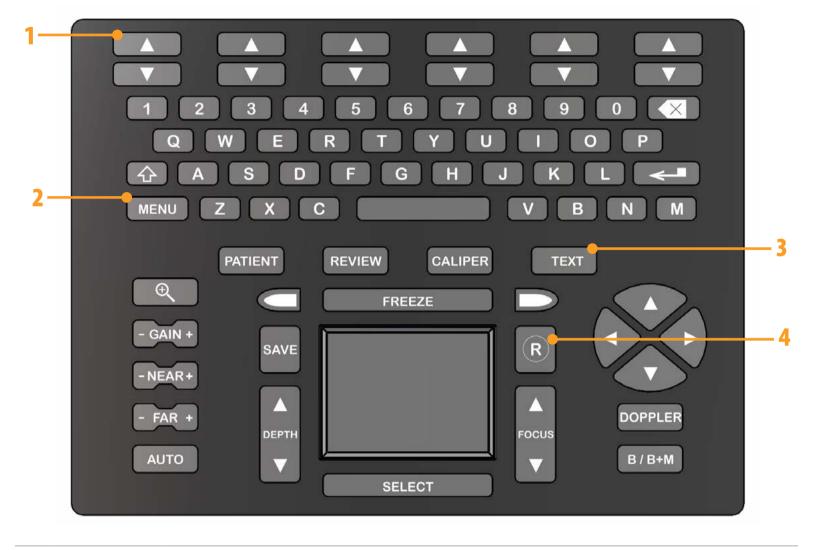
When used near an outlet, the IBEX SA² system can be powered directly [with or without the internal Li-lon battery pack



installed] by the external power supply/battery charger. It may also be used outdoors [unsheltered locations] as an internally powered system with a charged internal Li-Ion battery pack.

INTERACTING WITH IBEX SA²

Keyboard



- **1 Fuction Keys** The **FUNCTION** keys coordinate with the on-screen menu keys.
- 2 Menu Key Press the MENU key to enter the system setting menu.
 - MENU Press the MENU key again to return to active scan mode.
- **TEXT** Use the **TEXT** key to add labels to an image, access special characters, and use annotation labels as file names.
- 4
 Record
 Press the RECORD key to begin recording what you see on the screen.

 Image: Record in the screen in the scree

The remaining buttons are listed alphabetically.

Auto Auto	The AUTO gain feature allows the system to automatically adjust Gain settings for optimal image quality. AUTO Gain calculates the optimal Gain values based on tissue composition.
	Before pressing the AUTO key, make sure the probe is on the target anatomy.
B+M KEY B /B+M	B+M MODE [Motion Mode] imaging is a scan that displays motion in a wave-like manner. This mode is especially useful in depicting motion in cardiac applications. By incorporating B Mode functionality with M-Mode strips, you can control the exact position of the desired scan location.
Backspace	Use the BACKSPACE key to clear text, one character at a time.
Caliper	Press the CALIPER key to automatically enter the measurement area menu during an active scan.
	In an active scan, pressing the CALIPER key freezes the image auto- matically.
Caps Lock	The CAPS LOCK key is a toggle. Press it and CAPS are in effect [letters will be entered as capital letters].
L L L	Press it again to turn off CAPS.
Depth	Press the DEPTH key up or down to adjust the depth of the scan.
DEPTH	Note: the current depth is indicated in the upper right corner of the screen.
Doppler DOPPLER	The DOPPLER key enters Doppler functionality. Different Doppler modes [Color, Power, PW] can be entered using the function keys.
Down/Up	Use the down arrow to move the cursor on the screen. This is particu- larly useful when entering text into dialogs.

	Press the ENTER key to commit information entered into a field. For example, as you fill in the name, ID and other information for a patient, you can press ENTER to commit the information and move to the next field.
	The FAR gain control is used to make adjustments to the electronic amplification of the echoes in the image area that are farthest away [far field] from the transducer.
	Press the FREEZE key to freeze and unfreeze the active image on the screen. Freeze keys are also located on select probes.
Gain - GAIN +	Press the GAIN key to adjust the overall gain up or down.
	The LEFT/RIGHT arrow keys are located to the left and right of the freeze key.
	Use the arrow keys to move the cursor horizontally. This is useful when navigating through dialogs.
Near - NEAR +	Press NEAR key to adjust near gain.
	Press the PATIENT key to search for patients and create new patient records.
Review REVIEW	Use the REVIEW key to view saved images/loops.
SAVE	Use SAVE to save images to the IBEX SA ² local storage. By default, images are saved with automatic names in a directory for the current patient.
	Use the SELECT key when in caliper mode to set the measurements.
	Use the SPACE key to enter a space between words when entering text into dialog fields.
Zoom	Press the ZOOM key to enlarge the image.

SCREEN LAYOUT

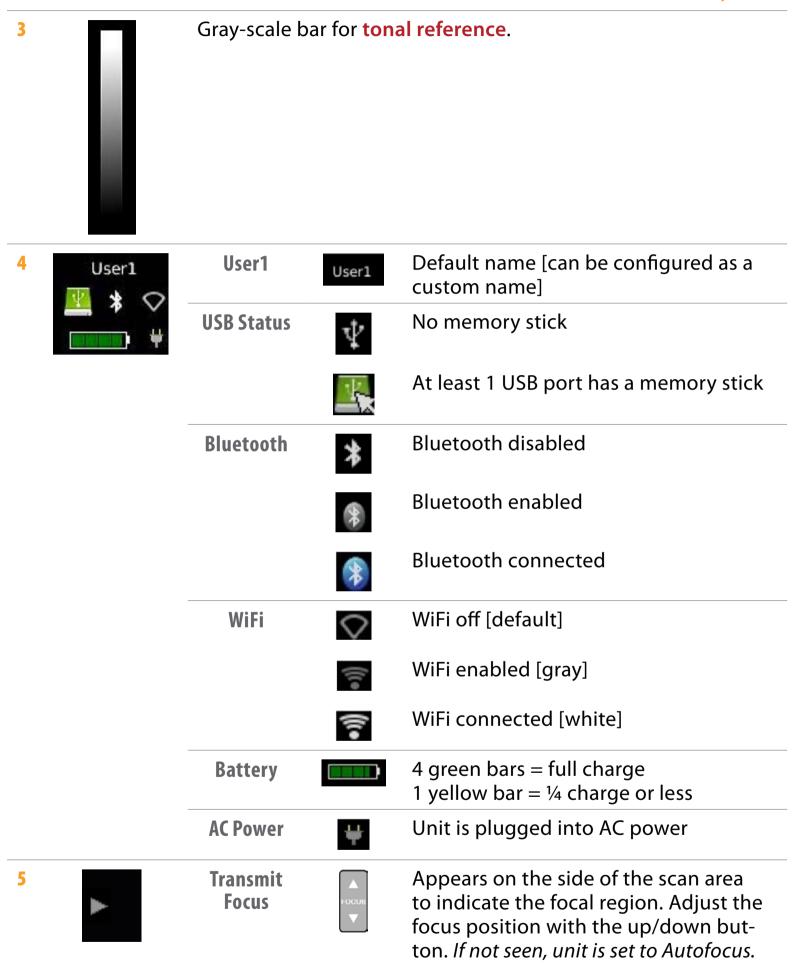
The home screen of the SA²...

E.I. Medical Imaging PATIENT: ibex ID: Sat Feb 12 2000 10:08pm B eC9- GEN K D 6.0cm Sm Abdom	-1
G 23dB N 30dB F 30dB 30Hz LIVE	-2
	3
User1 – Weser1	-4
Freq ▲ Direction ∧ Direction ∧ TGC Dual Exam Type Freq ▼ Direction ∠ Direction ∿ Scan User	

1	B eC9 GEN 、 D 6.0cm Sm Abdom	Denotes transducer type attached ; the frequency of the trans- ducer; the scanning mode [B or B+M]; scanning direction $[\leftarrow/\rightarrow]$
2	G 23dB N 30dB F 30dB 30Hz LIVE	G Gain N Near F Far 15Hz Current frame rate per second, set in the SCAN menu. The higher the number, the faster the image—when this number is too low, the image is slow and appears as a delay following probe movement.
		LIVE Indicates image is currently active. If FREEZE button is pressed, this will change to FROZEN.

TABLE OF CONTENTS

Screen Layout con't



ON-SCREEN MENUS

The **FUNCTION** keys at the top of the keyboard correspond to the on-screen **HOME MENU** buttons at the bottom of the screen.



Freq Frequency up and down allows you to change the frequency setting (probespecific). Higher frequencies = higher resolution, lower frequencies are used for deeper penetration. The current frequency is indicated in the upper right portion of the screen (a number followed by MHz).

Direction The four direction arrows select which corner of the image corresponds to the marker on the probe.

TGC Time-Gain-Compensation. This launches a menu that allows for the adjustment of gain levels at various depths within the image.

Dual Split-screen mode—compare two images, either from the current scan session or from stored images in the REVIEW menu.

Scan Displays the scan menu, which has adjustments for some of the imaging parameters.

Exam Type Allows you to select a preset for the type of exam you will be doing and is probe-dependent.

Back Takes you back to the previous menu.

Menu

Press **MENU** to display the System Settings menu.



Option

Display	Measure	Misc	
Audio	Image/Vid		Back

Display Display adjustments.

Measure Adjust Measurement options like temperature, weight, length.

Audio Adjust speaker, key click, and system sound volumes.

Image/Vid Adjust image formatting, video formatting, and recording loop length.

Misc Set clinic name, keyboard backlight time, enable reproduction workflow.

Back Takes you back to the previous menu.

Initial Customizations

To customize your ultrasound, access the various menus above. In general, the Measure and Image/Vid menus will be the ones that contain the customization options related to base operations.

Setup

USB	Wifi	User	1	1
Bluetooth	System	Annotations		Back

User Name/rename users

Annotations Set labels

USB Save files to a USB memory stick.

Bluetooth Enables Bluetooth.

WiFi Enables WiFi.

System

Clock	Info	Unlock	
Reset	Setup	Export Logs	Back

Clock Set day and time.

Reset Returns the selected user to defaults.

Info Information about the software.

Setup Change clinic and host names.

Unlock Enable features that are ordered separately.

Export Logs

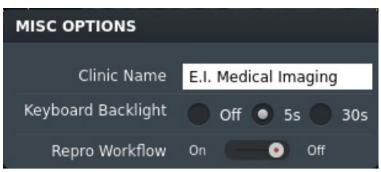
Back Takes you back to the previous menu.

Moving Around The Screens

The touchpad acts like a mouse to move the cursor on the screen. To select, press the **SELECT** key or the **ENTER** key. You can also tap the touchpad.

The **FUNCTION** keys coordinate with menu items on the screen.

MISCELLANEOUS OPTIONS MENU



Clinic Name the institution name that will appear on all saved images

Keyboard Backlight how long the keyboard stays illuminated after pressing any key on the keyboard.

Repro Workflow sets Repro Workflow to **ON**—when **Repro Workflow** is on, the regular patient area is not available

DISPLAY OPTIONS MENU



LCD Bightness the institution name that will appear on all saved images

Style adjusts the overall look-and-feel of the display. Dialogs, buttons, formatting will change.

MEASURE MENU



Calipers Stay Visible allows user to make a reference measurement on-screen that stays visible when the image is unfrozen

Quick Measure select whether to enable linear [distance] or area measurements when employing QUICK STORE or to turn the feature off.

Grid choose from the following display grid options:

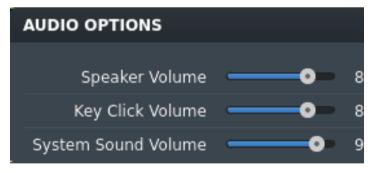
- 1cm tick marks along the side
- 1cm square grid overlaid on the screen [rectangular]
- Circular bullseye [for estimating diameters]
- No measurement reference

Temperature Units select F [Farenheit] or C [Celsius]

Distance Units select mm [millimeter], cm [centimeter], or inches

Weight Units select kg [kilogram] or lb [pound]

AUDIO MENU



Speaker Volume adjusts the overall volume of the unit

Key Click Volume adjusts the volume of when keys are clicked on the keyboard **System Sound Volume** adjusts the volume of system sounds like errors

IMAGE/VIDEO MENU

IMAGE/VIDEO OPTIC	DNS	
Saved Loop Length	🔵 2 sec 💽 4 sec	🔵 8 sec 💮 Start/Stop
Split Loop After	🔵 5 min 🔵 10 min 🌘	🕽 15 min 🔵 30 min 💿 off
Quick Store	On Off	
Image Format	JPEG	🔵 Bitmap (no metadata)
Video Format	• мр4	AVI
Export Format	Standard	О ОІСОМ

Saved Loop Length the length of recording taken when the record key is pressed [start/stop indicates the record key is used to start and stop recording for any length of video desired]

Split Loop After allows you to select when to split the loop. This is only valid when **Saved Loop Length** is set to **Start/Stop** and the **Video Format** is set to **AVI**.

Quick Store select ON or OFF

Image Format JPEG [standard] or BITMAP [no metadata]

Export Format JPEG [standard photo format] or **DICOM** [compatible with PAC servers, requires software to read]

Customizing User Presets

Press the **USER** key shown on the screen and click **SETUP**.

Assign a name or application to each user. The system has a fluid memory; when a specific user is selected the SA² will remember the last settings employed. This way different users can select their own name and make changes to the settings without interfering with others' preferences.

Customizing Annotations

Press the **MENU** key > **SETUP** > **ANNOTATIONS**.

Create lists of quick annotations or deselects lists that don't apply—this helps minimize button presses for accessing your preferred annotations [see section on annotations]'

Performing a Factory Reset

To reset the settings to factory defaults, press the **MENU** key > **SYSTEM** > **RESET**. The dialog box that opens up offers three options:

- Reset the user you are on so as not to change the other users' settings
- Reset all to restore all factory defaults across users
- Reset system to wipe memory, settings, and storage

Performing a Software Update

Please visit https://www.eimedical.com/firmware-sa for download and installation instructions.

STARTING AN EXAM

Creating New Patient

1 Press **PATIENT** button to display **Patient Search Screen**.

PATIENT	SEARCH								
Patient		Owner		D	<i></i>	Species			
Gender		Neutered		Birthdate	01/01/00	Are Are			
8610		Weighter (kur)		(C	ear All Fields				
Patient	Owner	ID	Species	Birthdate	Age	Gender			
	r CREATE PATIENT	ſ <u>.</u>							
	Patient Mick		Owner	Steve	ID	1024	Species Canin	e 🗾	
	Gender M	•		-	- 22	02/14/15 🚽	Age 7.9		
	RFID		Weight (kg)	31.7	Add F	older To Patient			
	<u>.</u>							Ĭ	
								×	
			-						
C	reate		+			+		Ba	ick

2 Press ▲ to display the **Create Patient** dialog.

Use the **UP/DOWN** key to move from field to field.

To enter special characters, press the **TEXT** key.

The on-screen keyboard will appear. To exit this keyboard and continue editing, use the **OK** button displayed on the keyboard.

3 Press ▲ [Create] to save the new patient record.
 When you leave the patient creation screen, an exam will start for the new patient.
 The PID and TAG information displays at the top of the screen.

Selecting Existing Patient

- 1 Press the **PATIENT** button to display the **Patient Search Screen**.
- 2 Move from field to field using the UP/DOWN key. Fill in fields with search criteria.
- 3 Select correct patient from search results by double-tapping on the touch pad. You will be returned to Exam Mode for the patient selected.

Choosing Exam Type

From the home screen, press **A** for **Exam Type**.

Select the \blacktriangle key that corresponds to the desired imaging application.

The selected exam type will appear toward the upper right of the screen.

Adjusting the Image

Depth

The **DEPTH** key is located toward the left of the keyboard.



Press the UP arrow ▲ to move the field of view up [decrease the total depth displayed on the screen] and the DOWN arrow ▼ to move the field of view down [increase the total depth displayed].

Frequency

On the home screen, **‡** corresponds to **Frequency Control**, and pressing it toggles the frequency through various settings for the transducer that is attached.

The frequency is displayed toward the upper right of the screen.

Use lower frequencies to penetrate to deeper structures and higher frequencies to achieve higher resolution of shallower structures.

Dual Imaging

DUAL is a split-screen feature that allows the user to compare side-by-side images.

To begin, press F3 for DUAL from the home screen. The yellow bar at the bottom of the scan screen on the left indicates that the left side is active.



Freeze a live image or press **A** to enter the review menu and select a stored image.

Press A for SIDE to change the active side to the right and follow the same steps to retrieve a stored image or create a new one.

Pressing **SAVE** from **DUAL** mode will store a screenshot, including both images.

Gain

Manipulate images by adjusting the **GAIN** settings. Gain controls compensate for the reduction in sound amplitude as it travels into tissue. Gain controls can intensify the returning signals and display images brighter and more visible on the screen.

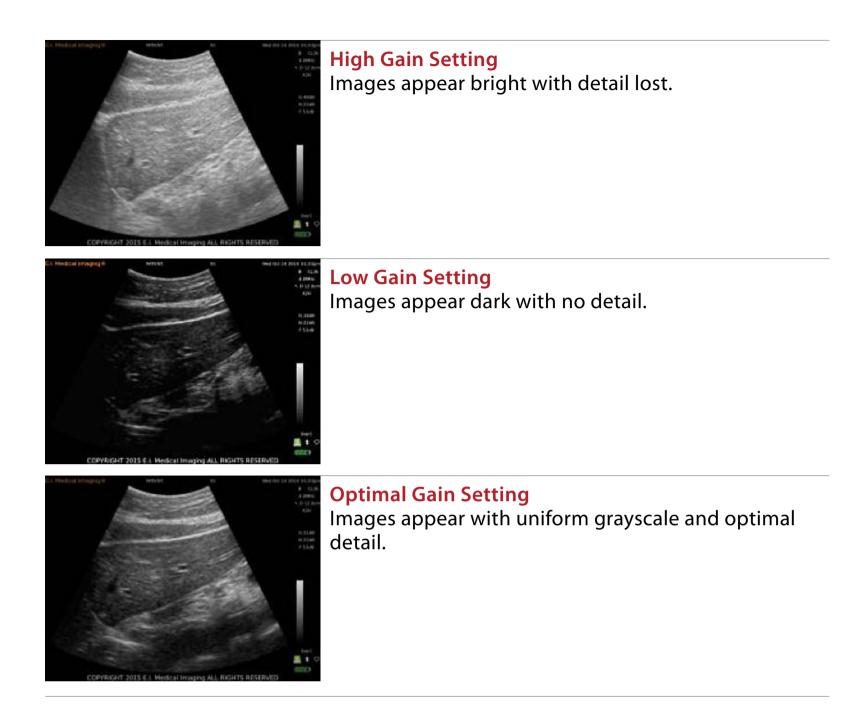
Adjust the gain for the near field [shallower, closer to the transducer surface], far field [deeper, farther from the transducer surface], or the entire field [overall gain]. Excessive increase in gain will add noise to the image.

For optimal diagnostic images, adjust Gain to produce uniform gray scale responses.

To view all gain settings, press GAIN [F6] from the home menu.

Overall GAIN - GAIN +	To adjust the overall gain, use the GAIN key to increase/decrease the brightness of the entire field.
Near GAIN	The NEAR gain control is used to lighten or darken the intensity of the echoes in the near field of the image [the area closest to the transducer].
Far GAIN - FAR +	The FAR gain control is used to make adjustments to the electronic amplification of the echoes in the image area farthest [far field] from the transducer.
Time GAIN Compensa- tion [TGC]	TGC refers to the time taken for an echo to travel from the transduc- er to the target area. As the ultrasound signal travels further into the tissue, more and more of its energy is absorbed causing the echoes to decrease in strength.
	At greater depths, the TGC needs to be set at a higher setting.
	At a short distance, for example near the skin line, there is more energy level available and therefore the TGC can be run at nearly a minimum setting.

TABLE OF CONTENTS



Using Auto GAIN

The Auto Gain feature allows the system to automatically adjust gain settings for optimal image quality. Auto Gain calculates the optimal gain values based on tissue composition.

To use the Auto Gain feature, select the AUTO AUTO button in the Gain Settings

dialog, and then press **SELECT SELECT** to apply.

The **AUTO** button should be pressed when the transducer is in contact with the patient or it will not function. It has to "see' the current image to make adjustments.

Focal Zone

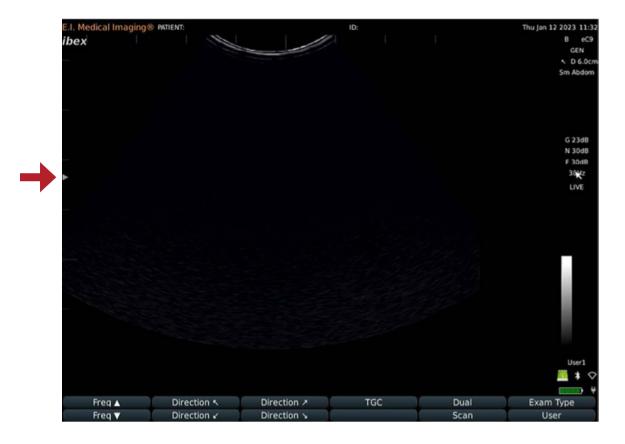
Control areas of focus within an image by adjusting the focal zone. The default area of focus is the center section of the image.

By pressing the UP/DOWN (key, specific focal zone control is enabled.

If the focal indicator arrow is brought all the way to the top until it disappears, the system will employ an autofocus mode.

A white arrow will appear on the left side of the image indicating the area of the image with highlighted focus.

Use the **UP/DOWN** key to change the targeted focal area.



Scan Menu

The **SCAN MENU** contains advanced imaging settings. Contact your sales rep or customer service for assistance with these settings.

ENDING PATIENT EXAM

To complete an exam, press the **PATIENT PATIENT** key.

Once in the patient menu, press ▼, which corresponds to END EXAM—select YES when asked to confirm.

The system will return to the home screen with no patient selected.

MANAGING IMAGES

Freezing Images

The EVO allows you to freeze any active image for further analysis.

- Press the **FREEZE** FREEZE key on either keyboard to:
- Take measurements of images and loops.
- Review images frame by frame using the left and right arrow keys or touch pad.
- Press **Start** and **Set End** to trim a video.

Probes with a freeze button give the added ability to:

- Freeze images without going to the scanner by pressing and releasing the button once.
- Store images without going to the scanner by holding the freeze button for two seconds from a frozen image.

Saving Images and Cineloops

When you save an image/cineloop, the system captures and stores the following information in the file:

- The patient name and ID
- The timestamp
- The voice memo
- Probe
- Everything displayed

The system saves images as jpegs [.jpg] and cineloops as AVIs [.avi] file format.

The system assigns a default file name based on the following convention:

Year	Month	Day	Hour	Minutes	Seconds
4-digit	alpha abbreviation	2-digit	2-digit	2-digit	2-digit

Example: 2015Oct16-15.43.47.JPG

Quick Store

When **Quick Store** is **ON**, images and recordings are saved to the EVO local storage and named automatically. If a patient has been selected, images are saved to a directory for the patient. If no patient name has been entered, the image is saved in the **Unassigned** directory.

By default, **Quick Store** is **ON**.

- If you have added annotations, they will be saved with the image.
- By default, the image is saved with an automatic name in a directory for the patient.
- If no patient name has been entered, the image is saved in the Unassigned directory.

Saving Images

To save images with user-defined names, disable **Quick Store**.

To disable **Quick Store**:

- 1 Press SUPER, Options [F1], Misc [F3]
- 2 Turn Quick Store OFF.

Now, when you press **SAVE**, you'll be prompted to enter a file name for the image.

When **Quick Store** is disabled, the **Save Dialog** will look something like this:

SAVE IMAGE File name 000Feb12-02.15.12 Save

Using Annotation Labels as File Names

Save images quickly, using annotation labels in the file names.

- 1 Make sure **Quick Store** is turned **OFF** [described above].
- 2 Press SAVE to save an image.

When the **Save Dialog** prompts you for a name, press the **TEXT** key. Select the label you want pressing the appropriate function key.

3 The image will be saved with the annotation label name.

If you attempt to save images to the same directory with the same label name, a prompt will appear asking if you want to overwrite or rename the previous image.

Choose **Rename** and you'll be able to save a series, for example: *Uterus1*, *Uterus2*, *Uterus3* and so on.

Press the **MENU** key to return to scanning.

Recording and Saving Cineloops

Press the **RECORD** key to begin recording what you see on the screen; you should see a blinking red circle on the right side of the screen indicating that a recording is in progress. This is a decrementing counter; it indicates the time left until the recording is complete.



By default, the recording is saved with an automatic name in a directory for the patient.

To save AVI files with user-defined names, disable **Quick Store**.

To disable Quick Store:

- 1 Press MENU > Options > Measure.
- 2 Turn Quick Store off.

Now, when you press **RECORD**, you'll be prompted to enter a file name for the image.

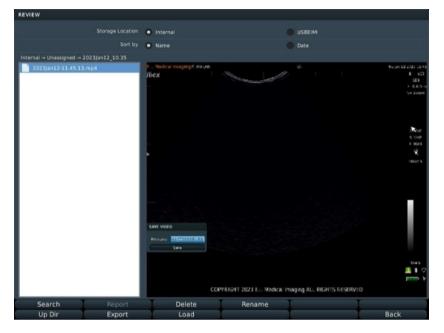
The length of the recoding is also set under Image/Vid Options.

- 1 Press SUPER > Options > Image/Vid.
- 2 Set Saved Loop Length. You can choose 2 seconds, 4 seconds or 8 seconds.

To record longer loops, choose **Start/Stop**. When this is selected, press **RECORD** to start and stop the recording for whatever length you like. *When utilized, the blinking red number counts* **up** *instead of down*.

Recalling Images and Cineloops

You can recall stored images and cineloops for comparison studies. Press the **REVIEW** REVIEW key to bring up the **REVIEW** screen.



Recalling Saved Images and Cineloops

- 1 To recall saved images, press the **REVIEW REVIEW** key.
- 2 Select the image or cineloop you'd like to view from the list on the left; to change directories press UP DIR Up Dir from the bottom menu
- 3 Press LOAD Load to view.
- 4 UP DIR moves the search up a folder level. Pressing it repeatedly will result in arrival at the root menu, where you can choose to search the on-board Flash drive or one of two USB drives.

Within the main menu on the onboard drive (and the USB drives if images have been exported to them), there will be a master **PATIENT** folder (for images saved to a specific patient), and a master **UNASSIGNED** folder (for images stored without a patient selected. These are organized by a time/date stamp)

When you view a cineloop, a blue bar on the right indicates progress.

Renaming Images

- 1 To recall saved images, press the **REVIEW REVIEW** key.
- 2 Select the image or cineloop you'd like to rename from the list on the left.
- 3 Press RENAME Rename
- 4 Rename the file and press **ENTER**.

Deleting Images

To delete images and cine loops for the system, complete the following:

- 1 Press the **REVIEW** REVIEW key.
- 2 Select the image or cineloop you'd like to delete from the list on the left; to change directories press UP DIR UP Dir.
- 3 Press DELETE Delete . The system will NOT ask if you want to delete—BE SURE!

ASSIGN TO PATIENT/PATIENT TO PATIENT

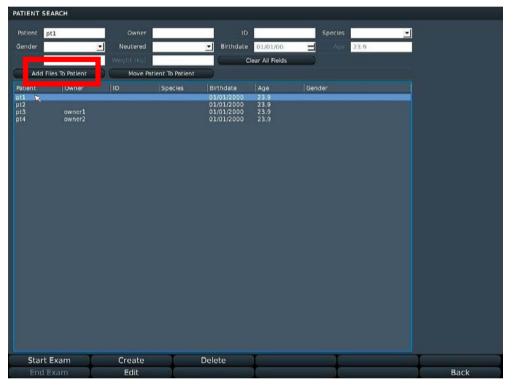
These features are to help users with moving, or copying, images/videos to the appropriate patient.

NOTE These features work appropriately when a patient and owner are set. It can work without an owner, but any time an owner is referenced, it will show a blank item. This is normal.

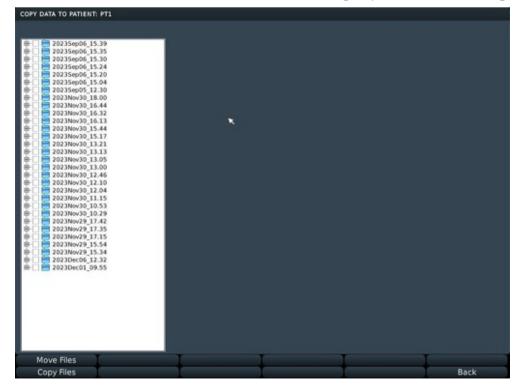
Assign to Patient/Add Files to Patient— Patient Window

To access this feature, you will need to follow:

- **1** Open the **PATIENT** menu using the **PATIENT** key.
- 2 Select a patient.



3 Click ADD FILES TO PATIENT to bring up the following dialog:



You can either select the directory or expand the directory and select individual files. This will show a quick preview of what the file is.

NOTE Copying is slower than moving, so it is recommended to move over copy.

Assign to Patient—Review Image/Video

- 1 Press the REVIEW button.
- 2 Select the image or video you want to review.
- 3 Press either the MOVE FILE or COPY FILE button. This opens a dialog to either create a new patient (if the one you want to move or copy the image to does not exist) or select the patient from the dropdown menu.



4 Press the corresponding **MOVE FILE** or **COPY FILE** button. Once completed, another dialog will display to show the operation completed.



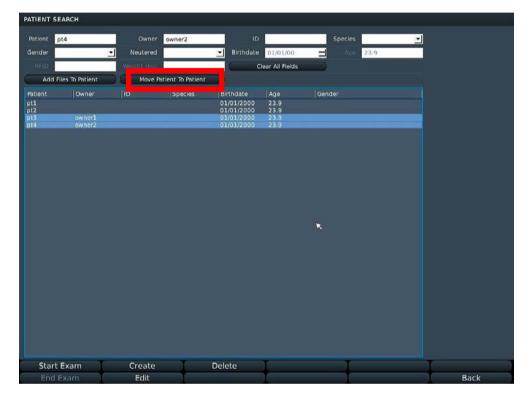
NOTE The **CREATE PATIENT** button will open the patient window to create a patient. See Creating New Patient s ection for more information.

Patient to Patient

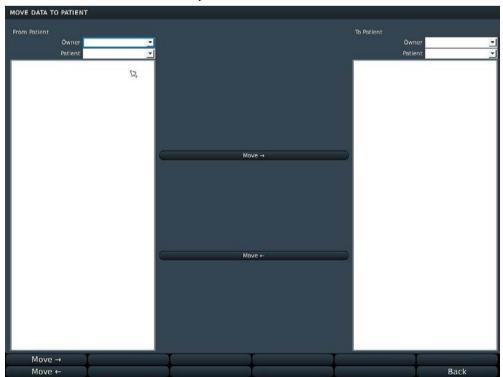
This feature allows you to move images or videos that were incorrectly added to the wrong patient and move them to the correct one.

NOTE Since there can be multiple patients with same names, owners are used to help filter results. It is strongly recommended to make sure all patients have appropriate owners listed.

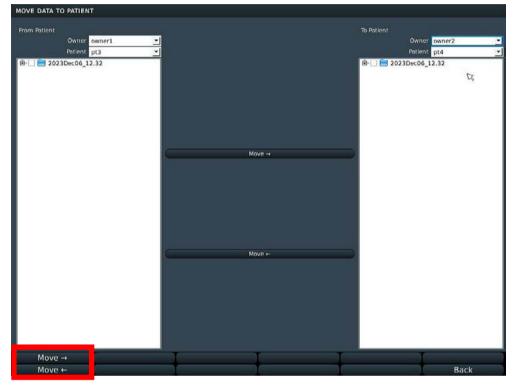
- **1** Select two patients. This will activate the **MOVE PATIENT TO PATIENT** button.
- 2 Press the **MOVE PATIENT TO PATIENT** button.



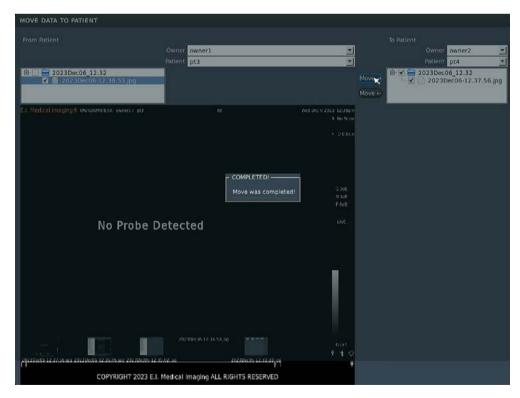
3 This will open a window where you can move images or videos between the two. NOTE The window does not pre-populate with the select owners/patients. You must select the ones you want to move.



- 4 You can select directories or individual images/videos.
 NOTE Selecting images/videos will provide a preview and skew the window—this is normal. It allows you to view the preview of the image to make sure you are moving the file you want. This also covers up the button bar at the bottom.
- 5 Click either MOVE RIGHT or MOVE LEFT once a file or folder is selected. A window telling the operation was completed will open briefly. Repeat this for any other owner/patient combination as needed.



6 When completed, press the [MENU] button to return to normal operation. This will close the [PATIENT] window.



USING MEASUREMENTS [LINEAR, AREA] AND ANNOTATIONS

The SA² auto-calculates distance and area measurements.

Taking Distance Measurements

To take distance measurements:

- 1 Press CALIPER key CALIPER to freeze the image. Using the touch pad, move the cursor to the location where you want to start measuring. Tap the touch pad to set the start position.
- 2 Move the cursor again and tap the touch pad again to complete a linear measurement. A label will appear at the end of the line indicating the length.

NOTE If the labels are too big or small, you can adjust the font size.

Press **EDIT**, then **FONT**+ or **FONT**- to make font larger or smaller.

Applying A Gestation Table To A Linear Measurement

- 1 Press F4 to view TABLE.
- 2 Select the **Species** from the first drop down.
- 3 Select the measurement from the lower drop down. Press ENTER _____. The coordinating result (fetal days) will appear below the measurement. NOTE If a measurement table has been selected before measuring, the calculation is automatically applied to the measurement.
- 4 Continue taking measurements by pressing the [**DIST**] key and repeating steps 2 and 3 until you are done. Press **SAVE SAVE** to save any images.
- 5 Press the CALIPER key to return to active scanning.

Taking Area Measurements

To take area measurements:

- 1 Press the CALIPER key to freeze the image, and then press the AREA key to display the crosshairs on the screen.
- 2 Move the crosshairs to the far boundary of the measurement area, and then press the **SELECT** key to mark the origin.
- 3 Using the touchpad move the crosshairs in a circular direction and delineate the measurement area until you return to the starting position.
- 4 Press the **SELECT** SELECT key to end the measurement and display the size. The text box turns black.
- 5 Continue taking measurements by pressing the AREA key and repeating steps 2 and 3 until you are done—then press the FREEZE FREEZE key to return to active scanning.

Adding Text Labels to Images

- 1 Press the **TEXT** key
- 2 When the cursor appears on the screen, you can move it with the touchpad
- 3 Enter text, or press one of the function keys to use a common label.
- 4 Press **SELECT** SELECT or the **ENTER** key to anchor the label.
- 5 Press TEXT to cycle through the lists.
- 6 Press **SAVE** save an image with the labels

The labels stay on the screen until you return to live scanning; to return to scanning, press the MENU key.

Adjusting Font Size

Press the **TEXT** key to cycle through the options.

On the final screen, press EDIT. Use \blacktriangle and \checkmark to increase or decrease the font.

Adding Arrows

After pressing the **TEXT** key, press \blacktriangle to activate the arrow.

Use the touchpad to position it as desired. Add text to label the arrow and press **ENTER** to save the text and arrow.

This turns the surrounding box from blue to black.

Adding Text to Saved Images

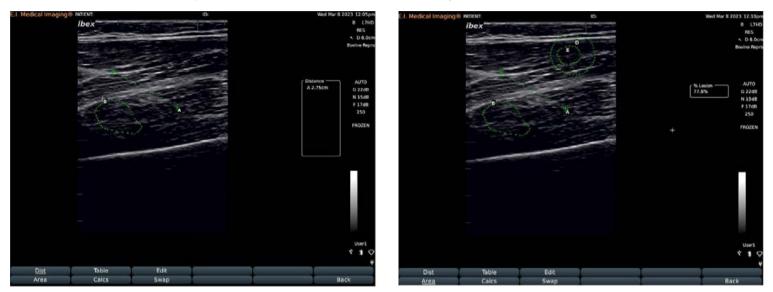
You can annotate and label saved images [JPGs] with alphanumeric text.

To add text to saved image files:

- 1 Recall the saved image file. Press the **REVIEW REVIEW** key to load the image.
- 2 Press the **TEXT** key to allow manual text entry or use list of available labels.
- **3** Continue to press the **TEXT** key to press through list of preset annotations.
- 4 Press **SAVE** SAVE to save image.

Measurement Side Bar

When **CALIPER** is pressed a measurement side bar is displayed. This will show the various measurements based upon what is supported by the probe. It will display a box based on what is set for the default measurement. Here it will show a letter label (A, B, C, etc) that corresponds to the measurement you took, as shown below.



For calculation measurements it will show the result of the calculations. Changing measurement does not clear already existing measurements.

NAVIGATING THE REVIEW MENU

Editing Images

New image files can be saved from stored ones.

To measure and annotate an image after it has been stored, navigate to that image in the **REVIEW** menu and recall the image back to full screen.

Make the necessary edits and press **SAVE** save to store the updated copy.

PLEASE NOTE...the new JPEG will be stored under the new date and time and not in the original folder [but still within the **PATIENT PATIENT** if a patient is assigned].

To store a freeze—measure, annotate, and store a still frame [JPEG] from a stored video loop, recall the desired video loop from the **REVIEW** menu.

Freeze the image at the chosen time [left and right arrow keys can be used to advance through the frames after freezing the playback], and apply the necessary edits.

Press **SAVE** to store the updated copy.

To save a shorter video clip from a longer file—recall the video loop from the **REVIEW** menu, then use the **RECORD** Revise key to save the desired portion. *See "Recording and Saving Cineloops" p.23*

Reporting Images

To write a report on a set of images, the **PATIENT PATIENT** must be currently selected.

Enter the **REVIEW** menu and navigate to the folder of images that you wish to report on. Press **F3** for **REPORT** to fill out a report form that will be saved as an additional JPEG alongside the images within that folder.

Recalling Saved Images and Cineloops

- 1 To recall saved images, press the **REVIEW REVIEW** key.
- 2 Select the image or cineloop you'd like to view from the list on the left; to change directories press UP DIR UP Dir.
- 3 Press LOAD Load to view.
- 4 The UP DIR [Up Directory] button moves the search up a folder level. Pressing it repeatedly will result in arrival at the root menu, where you can choose to search the on-board Flash drive or one of two USB drives.

Within the main menu on the onboard drive [and the USB drives if images have been exported to them], there will be a master **PATIENT** folder [for images saved to a specific patient], and a master **UNASSIGNED** folder [for images stored without a patient selected. These are organized by a time/date stamp]

When you view a cineloop, a blue bar on the right indicates progress.

Recalling Images and Cineloops

Recalling Saved Images and Cineloops

- 1 To recall saved images, press the **REVIEW REVIEW** key.
- 2 Select the image or cineloop you'd like to view from the list on the left; to change directories press UP DIR UP Dir from the bottom menu
- 3 Press LOAD Load to view.
- 4 UP DIR moves the search up a folder level. Pressing it repeatedly will result in arrival at the root menu, where you can choose to search the on-board Flash drive or one of two USB drives.

Within the main menu on the onboard drive (and the USB drives if images have been exported to them), there will be a master **PATIENT** folder (for images saved to a specific patient), and a master **UNASSIGNED** folder (for images stored without a patient selected. These are organized by a time/date stamp)

When you view a cineloop, a blue bar on the right indicates progress.

Renaming Images

- 1 To recall saved images, press the **REVIEW REVIEW** key.
- 2 Select the image or cineloop you'd like to rename from the list on the left.
- 3 Press RENAME [F1] Rename
- 4 Rename the file and press **ENTER**.

Deleting Images

To delete images and cine loops for the system, complete the following:

- 1 Press the **REVIEW REVIEW** key.
- 2 Select the image or cineloop you'd like to delete from the list on the left; to change directories press UP DIR Up Dir
- 3 Press DELETE [F5] Delete . The system will NOT ask if you want to delete BE SURE!

Quick Access Bar

Below the main ultrasound area and above the buttons is the **Quick Access Bar**. This will show stored images and videos. By default it will show the *Unassigned* directory, and opening up an image from USB or a patient will change the directory to where it was loaded.

For example, if you open an image from a patient, it will populate the bar with that patient's images/videos and allow you to quickly open any image without the need to go into the **Review REVIEW**.

NOTE To change the directory you will have to open an image/video from **Review**.



Exporting Images

Saving Files to a USB Memory Stick

- 1 Insert the memory stick where you want to save the files into one of the USB ports on the back of the SA².
- 2 Navigate to the USB Menu. Press the MENU key, SETUP, USB.

The dialog below will display. You can also click on the **USB** icon in the status panel: tap on the touch pad to launch the USB dialog.

NOTE If you do not have a current **PATIENT**, the last option will not appear.

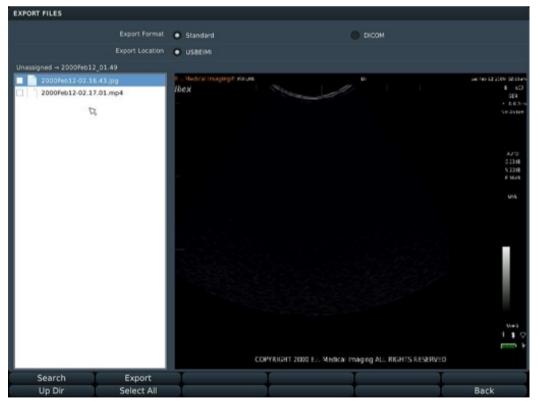


USB FILE STORAGE
Eupart Eller
Export Files
Clear all internal memory
Backup all to USB
Restore from USB
Clear patient 'otis" internal memory

3 In this example, we were doing an exam for the patient *Otis*. To pick and choose which files to export, select the internal storage location and **Export Files**.

The next screen will appear.

You can select individual files from the list or check **Select All** at the top of the screen.



4 The files will save to the USB thumb drive in a folder structure by patient and date. If you save files without activating a patient record, they will be saved into a folder named UNASSIGNED.

FILE SHARING

You can share files from the SA² across a wireless network.

Setting Up the SA²

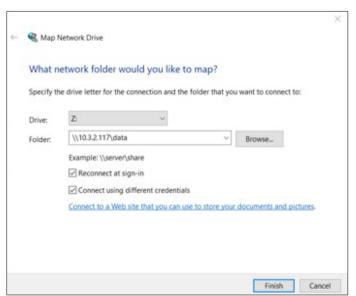
On the SA², enable WiFi. You can connect to a local network or use direct connection. In this example, we're connecting to a local network.
 Once the EVO is connected to the wireless, set File Sharing.

WIFI WIF Or WIF Direct Networks Ingalis Cafe-1 Plassphrase Wifipwd Connect Status IP Address 10.0.0.18 EVOStream On Or Set File Sharing Hostname evo Hostname evo Password evo

From Your Computer

Once wireless is enabled on your SA², you'll be able to see it from your computer. Access it by mapping a drive to the device.

1 On your PC, go to This PC > Map Network Drive [right-click on This PC and select Map Network Drive].



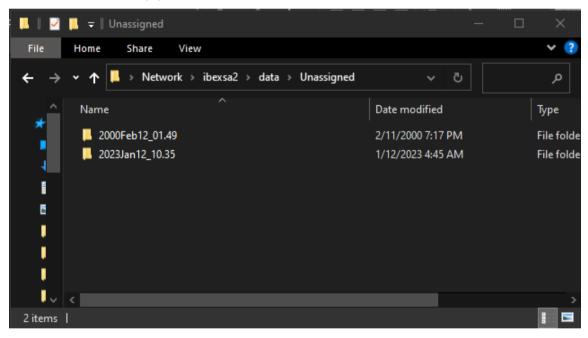
- 2 Fill in folder as \\<ip address>\data, using the IP address of the SA². For example: \\10.3.2.117\data
- **3** Select **Connect using different credentials**; click **Finish**.

4 You'll be prompted to authenticate to the SA². Log in with the WiFi username and password. Below we show the defaults. Click **OK** and the drive will display the directories on the SA² where images and cineloops are stored.

Windows Security X		
Enter network credentia	als	
Enter your credentials to connect to:		
ibex_sa2		
•••••		
Domain:		
Remember my credentials		
ОК	Cancel	

NOTE For Windows 10 and later, the username should have a \ (backslash) to remove domain login.

5 The drive will appear with directories as shown.



NOTE If your windows explorer settings are set to display hidden folders, you may see additional folders.

EVOStream[™]—Sharing Live Images

EVOStream lets you share the live video feed to an iOS or Android[™] device. It will connect up to 4 devices at a time.

There are two ways of connecting to an SA² from your wireless device.

- Configure your phone and SA² to connect to the same WiFi network
- Or configure the SA² to supply its own WiFi [WiFi Direct] and have your device connect to that network.



Sample view on an iPad

Connecting Over WiFi Direct

- 1 Power on the SA².
- 2 Enable WiFi.

To access the WiFi settings:

Press the MENU key, SETUP > WiFi. The WiFi dialog will appear...

WIFI	
WiFi	Off WiFi O Direct
SSID	IbexSA2
Passphrase	IbexSA21
Auto Reconnect	On 🔵 Off
C	Activate Network
	Disabled
IP Address	192.168.0.1
EVOStream™	On 💽 Off
File Sharing	On Off
	ibexsa2
	ibexsa2
61	140 M 100 M

You can also click on the WiFi icon in the status panel: tap on the touch pad to launch the WiFi dialog.



- **3** By default, **WiFi** is disabled; click **ON** to enable.
- 4 In the WiFi dialog, select the **Direct** radio button on the first line.

This will auto-populate the SSDI with SA² and the passphrase **Galileo1**. These are default values that you may change if you want customize your network [for example, if you don't want other people to connect to your SA², you may want to select a different password, or if you have multiple SA²s, you may each give them a different SSID], but you don't need to.

- 5 Click the Activate Network button. The status line should change to Connected.
- 6 Set **Streaming** to **On** to enable video streaming.
- 7 At this point your SA² is configured to stream over WiFi Direct.

Configuring iPhone or iPad

Download **EVOStream[™] App** from *Apple iTunes*.

- 1 Click **Settings** on your iPhone or iPad.
- 2 Select WiFi; this should bring up a list of networks.
- 3 You should see IbexSA2 [unless you changed the SSID in step 3 above] from that list. Select it.
- You'll be prompted for the network passphrase
 [IbexSA21, unless changed]. Once you have entered the correct passphrase, your iPhone or iPad should connect to the SA² network. Exit Settings.
- 5 Launch the EVOStream App.
- 6 It should auto-detect the unit and start display the video stream from the SA².

Configuring an Android[™] **Device**

Download **EVOStream App** from *Google Play*.

- 1 Click the **Settings** icon on your Android device.
- 2 Select WiFi; this should bring up a list of networks.
- 3 You should see IbexSA2 [unless you changed the SSID in step 3 above] from that list. Select it.
- 4 You'll be prompted for the network passphrase [IbexSA21, unless changed]. Once you have entered the correct passphrase, your Android[™] device should connect to the EVO network. Exit Settings.
- 5 Launch the **EVOStream App**.
- 6 It should auto-detect the unit and start display the video stream from the SA².

Enabling Bluetooth

The SA² uses Bluetooth

- to work with Bluetooth RFID readers
- for remote control

To access the Bluetooth settings, press: **MENU** key > **SETUP** > **BLUETOOTH**.

You can also click on the **Bluetooth icon** in the status panel; just tap on the touch pad to launch the Bluetooth dialog.



The Bluetooth dialog opens...

BLUETOOTH Bluetooth: On Off Scan for Remotes Remotes: : D04F7E0382E4	Bluetooth	By default, Bluetooth is disabled. Turn it on here. Bluetooth will continue to be enabled after a system reboot.
Connect Remote Scan for RFID Readers	Scan for Remotes	Click this to initiate a search for remote devices.
RFID Devices: Connect RFID Assign Key Up DepthPlus Assign Key Down DepthMinus	Remotes	Available remote devices are list- ed here. Select the one you want to use.
Assign Key Left GainMinus Assign Key Right GainPlus Assign Key Freeze Freeze Assign Key Record Record	Connect Remote	Click this to establish a connec- tion between the SA ² and the selected device.
Assign Key Save Assign Key Select Select	Scan for RFID Readers	Click this to initiate a search for RFID Readers.
FID Support The SA ² supports the following	RFID Devices	Available RFID Readers are listed here. Select the one you want to use.
ID string formats: ISO, Hex and ecimal 2.	Connect RFID	Click this to establish a connec- tion between the SA ² and the selected RFID reader.
	Assign Key	All remote keys can be reas- signed to work as any key on the SA ² . Select the key you want to reassign from the list, then phys- ically press the new key.

APPENDIX

FCC Regulatory Information



Contains FCC ID: Z64-WL18SBMOD Contains IC: 451I-WL18SBMOD

This device complies with Part 15 of the FCC Rules subject to the following two conditions:

- 1) This device must not cause interference, and;
- 2) This device must accept all interference, including interference that may cause undesirable operation.

WARNING

Modification of this device without consent of the responsible party may void the users right to operate this device.

NOTES

a) USA-Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Exposure to Radio Frequency Radiation

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

b) Canada—Industry Canada (IC)

This device complies with RSS 210 of Industry Canada. Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of this device.
 L'utilisation de ce dispositif est autorisée seulement aux conditions suivant.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) Il ne doit pas produire d'interference et

(3) l'utilisateur du dispositif doit étre prêt? Accepter toute interference radioélectrique reçu, m?me si celle-ci est susceptible de compromettre le fonctionnement du dispositif.

Caution: Exposure to Radio Frequency Radiation

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website http://www.hc-sc.gc.ca/rpb.

(EU Compliance Usage restrictions apply—see documentation

AT	BE	CY	CZ	DK	EE	FI	FR
DE	GR	HU	IE	IT	IV	LT	LU
MT	NL	PL	ΡT	SK	SI	ES	SE
GB	IS	LI	NO	CH	BG	RO	TR

EU Restrictions for Use in the 2.4 GHz Band

This device may be operated indoors or outdoors in all countries of the European Community using the 2.4 GHz Band: Channels 1-13 except where noted.

EU Declaration of Conformity No. 060116 6

(Manufacturer):

E.I. Medical Imaging

815 14th St, SW Unit C210

(Address):

Loveland, Colorado 80537, USA

Declares that the product:

Portable Ultrasound Device for Veterinary Use: Ibex EVO I3 OLED and LCD Models

Conforms to the following Directives:

- Low Voltage Directive 2014/35/EU, Test Report No. EIMI-Ibex-EVO-60601-1 1
- 2. Electromagnetic Compatibility Directive 2014/30/EU Test Report No. EI19032016IEC 04/06
- R&TTE Directive 1999/5/EC Test Report No. ER3N2752 TI Module WL1835MODCOM8B EMF Directive 1999/519/EC Test Report No. TBD 3
- 4.
- 5. RoHS 2 Directive 2011/65/EU

This declaration has been issued under the sole responsibility of EI Medical Imaging. The object of the declaration is in conformity with the relevant Union harmonization Legislation.

Using the following primary standards:

Safety Standards (used as a guide)

EN 60601-1: 2012- Medical Electrical Equipment - Part 1: General Requirements For Basic Safety & Essential Performance

EMC Standards:

EN 60601-1-2: 2007 : Electromagnetic Compatibility (EMC) EN 55011: 2009 + A1:2010 : Radiated Emissions- Class B, Group 1 EN 61000-4-2 : Electrostatic Discharge EN 61000-4-3 : Radiated RF Immunity EN 61000-4-4 : Electrical Fast Transients/Burst : Surge Immunity EN 61000-4-5 EN 61000-4-6 : Conducted RF Immunity EN 61000-4-8 Power Frequency H-Field Immunity EN 61000-4-11 Voltage Dips, Interruptions EN 61000-3-2 : Power Line Harmonics and Interharmonics EN 61000-3-3 · Flicker EN 300 328 v1.8.1, TI Module Cert WL1835MODCOM8B : ERM Data Transmission in 2.4 GHz Band EN310 489-1 v1.9.2, TI Module Cert WL1835MODCOM8B : Common Technical Requirements (Radio) EN310 489-17 v2.2.1, TI Module Cert WL1835MODCOM8B : Specific conditions Broadband Data Transmission

And complies with the relevant Essential Health and Safety Requirements

I, undersigned, hereby declare that the equipment specified above fulfills the safety objectives referred to in Article 3 and set out in Annex I, has been demonstrated and conforms to the above Directives and Standards and is therefore eligible to carry the CE Marking.



Patrick Nefos	
(Name)	
Loveland, CO	

(Signed at place)

(Position)

March 22. 2023

(Date)

Engineering, E.I. Medical Imaging

Patrick Nefos

TABLE OF CONTENTS

SYMBOL	NAME	DESCRIPTION
	Caution	You must read, understand, and follow all in- structions in this manual including all warnings, cautions, and precautions before using the med- ical device in veterinary practice.
		 Scanner Is for veterinary use only. Is not user serviceable. Contact E.I. Medical Imaging if defective or damaged. Use only specified AC adapter/charger.
$\mathbf{\dot{\star}}$	Type BF Equipment	The Probe (Patient Applied Part) is Type BF (float- ing from electrical ground) per the Standard EN 60601-1, which offers a specific level of safety.
Rohs	RoHS Compliant	The system is compliant with the RoHS guideline 2002/95/EC
CE	CE	Device complies with the European Union Low Voltage Directive (LVD) and EMC directive.
	Standby	Alternately switch the device between the pow- er-on and standby states.
•~~	USB	USB 2.0 Host I/O Port current limited (100ma per port) for connection to USB FLASH DRIVE file storage and supported peripherals.
Pb	Lead Free	All components (e.g. PCBs) are lead free and can be used in lead free solder processes.
IP54	Ingress Protection	Protection from dust and splashing from any direcTtion.
		Protection from dust and low pressure jets of water from any direction.
X	Do not dispose	This device is not allowed to be disposed in domestic waste.
ĺĺ	Read Manual	Before attempting to use this device, consult the manual and/or the quick start guide.

System Specifications

The following table lists the system specifications for the SA² scanner.

Applications	Equine, Companion Animal, Bovine, Exotic, Marine, Small Ruminants, Swine
Imaging Modes	B, B+M, M, PW, Color, Power Doppler
System Dimensions	11.25 x 23 x 3 inches 28.5 x 30 x 7.5 cm Lightweight 8.6 lbs (3.9 kg)
Transducer	Ruggedized DuraScan [®] transducers 2.0MHz – 14.0MHz Support for 2.0 MHz to 14 MHz 128 Element Linear/Curved Linear probes Support for user selectable scan directions
Connectivity	USB 2.0 image storage and recall Wireless (802.11) connectivity and Bluetooth connectivity
Display	12.1″ diagonal LCD XGA resolution. 30.73 cm 1080 HDMI, NTSC, EVOStream
Power	Li-ion battery 3 hours Stand alone external battery charger available; AC Power Adapter for charging or operating; Output: 15V DC 4A
Scan Measurements	Unlimited caliper sets for distance measurements Continuous area of circumference Grid option for quick measurements Touch pad for navigation Calculation tables On-screen text annotations and arrows Dual image feature for side-by-side comparisons Tendon calculations: % Lesion % change % difference Cardiac calculations: FS LA/AO
Image Storage	250 frame cineloop memory (60 frames/second frame rate recording) Audio Tags can be stored with image Static images can be saved from cine-loops Measure and recalculate from saved images

System Specifications cont.

Additional Features	System Dynamic Range 156 db Auto-Optimize image (Auto Gain and TGC) Software field upgradable LED backlit keyboard DuraScan® technology for system durability Streaming Video via 802.11x using H.264 codec to iOS and Android devices. EVOStream [™] WiFi Remote Scanning App Customized, veterinary-specific exam presets		
Operating Environment	0° to 40° C		
Storage, Transporta- tion Environment	-20° to 50° C		

WARRANTY

This Limited Warranty is provided only to you as the original retail purchaser of the shipped E.I. Medical Imaging SA² Diagnostic Ultrasound Scanner (the Product), and to no other person. E.I. Medical Imaging warrants to you that for a period of one (1) year with respect to labor and for a period of one (1) year with respect to parts, the Product will be free from defects in materials and/or workmanship.

Limited Warranty

Transducers, batteries and associated accessories all carry a one (1) year limited warranty from the date of purchase. E.I. Medical Imaging warrants to you that for a period of one (1) year with respect to labor and for a period of one (1) year with respect to parts, the Product will be free from defects in materials and/or workmanship.

Your Exclusive Remedy, E.I. Medical Imaging's entire liability and your exclusive remedy under this Limited Warranty shall be, at E.I. Medical Imaging's option, either Repair or Replacement of the Product within the specified warranty period. IN NO EVENT DOES THIS WARRANTY COVER DEFECTS OR MALFUNCTIONS DUE DIRECTLY OR INDI-RECTLY TO ACCIDENT, MISUSE, OR NEGLECT OF THE PRODUCT, TAMPERING WITH OR ANY INDICATION THAT THE SYSTEM HAS BEEN OPENED BY ANY NON-COMPANY AP-PROVED INDIVIDUAL OR SERVICE CENTER, OR AN ACT OF GOD.

Disclaimer of All Other Warranties

Except as specifically provided above, there are no express warranties or claims or representations made by E.I. Medical Imaging regarding the Product. Any implied warranties, including implied warranties against claims that the product infringes on property rights of third parties, patent rights, implied warranties of fitness for a particular purpose or use, and implied warranties of merchantability, shall terminate one (1) year from the date of purchase.

Limitation of Liability

To the maximum extent allowed by applicable law, in no event will E.I. Medical Imaging nor anyone else who has been involved in the creation, production or delivery of the product be liable to you or any other person for any direct, indirect, consequential or incidental damages, or any special or punitive damages (for example, damages for loss of profits or business interruption) arising out of the use of or inability to use the Product, a defect in the Product, or the failure of the product to perform, even if E.I. Medical Imaging has been advised of the possibility of such claims or damages. In no event will E. I. Medical Imaging be liable, regardless of the basis of the claim or action, for any amount exceeding the purchase price actually paid for the Product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

Repair Warranty

Any repair work preformed by E.I. Medical Imaging shall be warranted with respect to parts and labor to be free from defect for a period of (30) thirty days.

Obtaining Warranty Service

All Warranty repair work shall be performed by E. I. Medical Imaging's employees at the factory or by an Authorized Service Center. In the event that the Product requires service, please contact E.I. Medical Imaging, or other authorized service provider, to obtain a Return Materials Authorization (RMA) number. This number must accompany your Product upon return in order to obtain service on your unit. You the purchaser are responsible FOR ALL FREIGHT CHARGES ASSOCIATED WITH WARRANTY SERVICE.

This Limited Warranty gives you specific Legal Rights; you may also have other rights which vary from state to state.