imv TECHNOLOGIES

User Guide

IMAGo™
IMAGo™ Flex

CE

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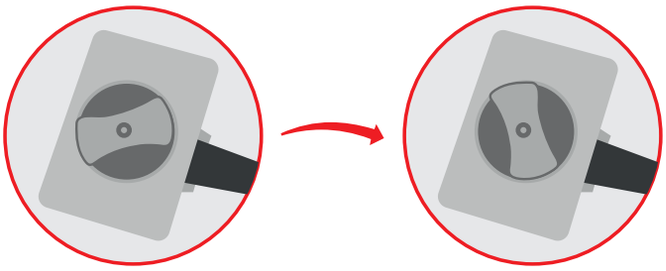
1. Start Up

1.1 Connection and disconnection of probes (only applicable to ImaGo Flex)

To connect a probe, place the probe connector in the opening at the back of the scanner, with the cable pointing outwards. Turn the lock situated in the middle of the connector with slight pressure in order to engage the locking mechanism. When the locking mechanism is engaged, make a quarter turn clockwise so that the probe is connected.



The probes can be changed during the examination without restarting the device.

To disconnect a probe, make a quarter turn anti-clockwise in order to unlock the connector. Take the connector out of the device and store the probe, protected from shocks.

- Before disconnecting the active probe, make sure you freeze the image.
- When starting the device, always make sure to have a probe connected on the scanner.
- The name of the connected probe is indicated on the screen in the top left corner

2. Charging Battery

The Imago L/C and Flex battery can be removed of the scanner. When inserting the battery pack in the device, check that it is securely connected.The battery can be only charged in the charging dock, powered by a standard outlet.

A fully discharged battery should be fully charged within 5.5 hours. While in a good condition, the battery run time will be 4 hours (assuming 50% idle time between scans).

Scanner will enter low power mode when idle.

For optimal battery longevity, avoid letting the battery run completely down and recharge at approximately 20 Celsius/68 Fahrenheit.

Electrical connection to the power pack is through the gold pads on battery and scanner. Power pack output is protected but care should be taken to prevent short circuiting the gold connector pins and pads.

LED sequence	
One blue flashing	Charging, charge level below 33%
First LED solid blue Second LED flashing blue	Charging, charge level below 66%
First and second LEDs solid blue, third LED flashing blue	Charging, charge level below 100%
All LEDs solid blue – fully charged.	Fully charged
All LEDs flashing yellow	Temperature is too high (more than 45 Celsius, 113 Fahrenheit) for safe charging
All LEDs flashing blue	Temperature is too low (less than 0 Celsius, 32 Fahrenheit) for safe charging.

Warning:
To reduce the risk of burns, fire, electric shock, or injury to persons the appliance should never be left unattended when plugged into mains or 12 V cigarette lighter.

3. Accessories and probes

3.1 Accessories

Carry case

Harness

Sun hood

Charger

Battery

Cigar lead

OLED/VGA goggle

Mains power cable (charger)

Introducers

Arm Strap

3.2 Additional Probes (only for ImaGoFlex)

C360S

L3130B2/L3180B probes

OPU610B/614B probes

CR460V probe

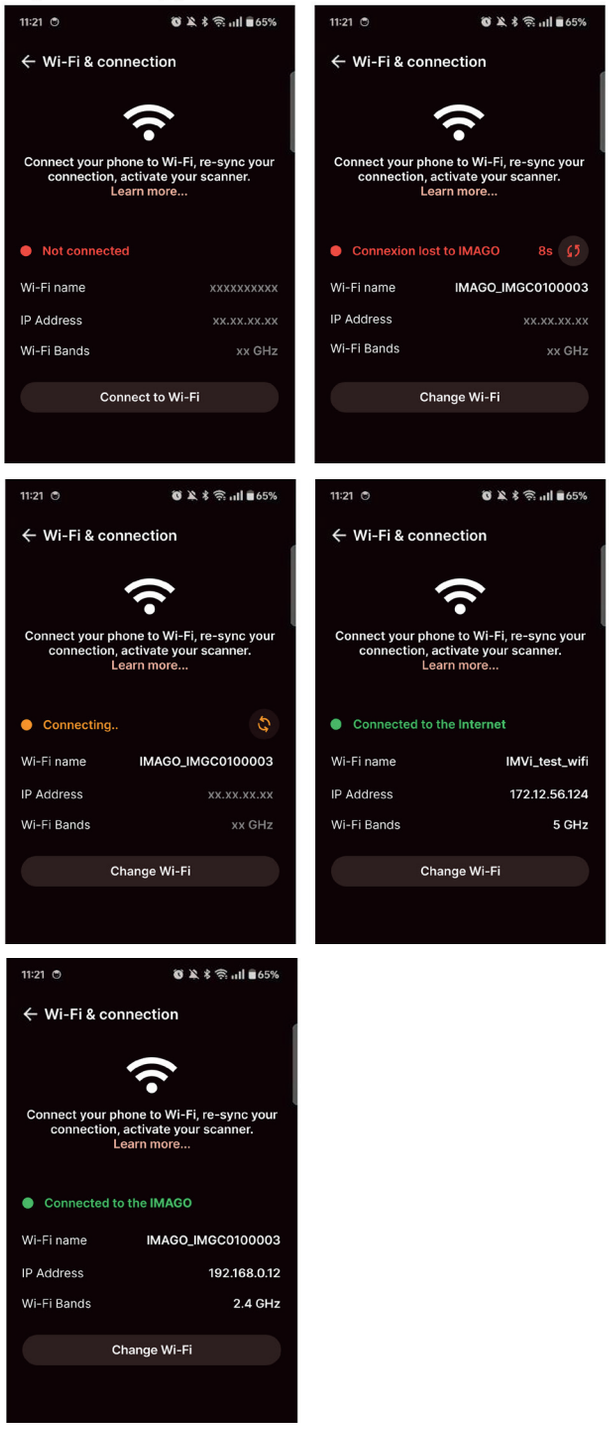
LR664V probe

4. Activation

4.1 First time use

Download the IMV Imago Connect App from Google Play or the App store. Ensure the scanner is charged and smart device connected to Wi-Fi. Switch on the scanner using button. Open app on smart device. It will ask to connect to the scanner.

Note: If the Wi-Fi LED is flashing on the scanner it is not connected to any smart device.



4.2 Scanner Updates

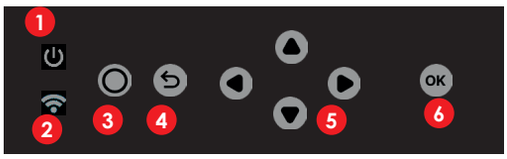
The app automatically checks the IMV licence server for scanner software updates when connected to Wi-Fi.

After connecting to an ImaGo, you may be prompted to update the scanner licence and software. The scanner will only update if the battery is above 50% charge. Press OK or Cancel. Pressing OK will cause the scanner LEDs to flash yellow - the scanner will take roughly two minutes to update. Press cancel if you wish to update later.

Once the update is finished the scanner will switch off. The scanner software version number can be checked in the Settings > Systems >About Section.

5. Normal start up process

5.1 Starting of the device



1 Power LED
2 Wi-Fi Led
3 On/Off
4 Settings/Back button
5 Left/Right,Up/down button to navigate the menu
6 Validate the choice

To start the equipment, press the power button located at the front of the device.

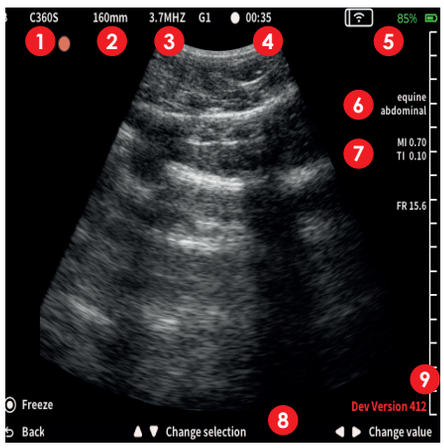
Then wait until the system starts and displays the user interface on the screen, corresponding to the connected probe.

The Imago equipment starts in a preset mode.

On ImaGo Flex, if no probe is connected, the system will display a message "No probe". In this case, connect a probe and click on the probe's name in the top left corner of the screen.

Access to the controls of the scanner:

The ImaGo scanner turns on in B imaging mode with a screen display as below:



1 Probe
2 Depth
3 Frequency
4 Automatic Timer
5 Battery charge; connected devices
6 Preset
7 Mechanical and thermal indexes
8 Contexual menu shows what buttons of the scanner should be used to access different functions
9 Depth scale

5. Normal start up process

5.2 Contextual Menu

Users can access various functionalities through the contextual menu located at the bottom of the screen, as freeze the image, access the main menu, adjust presets, or add measurements to the image.

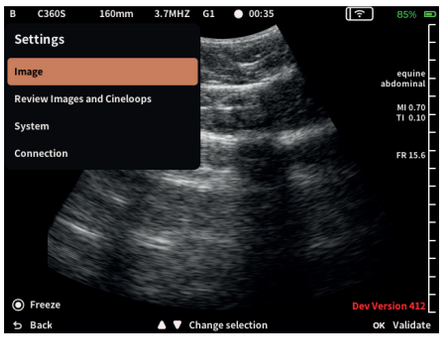
Users retain the ability to perform measurements and access the main menu as before. Additionally, users can playback the cine loop, review it frame by frame, and save the video or individual frames as images.

This menu provides access to all settings and secondary information related to the scanner, the probe, the image and the data.

6. Settings

6.1 Setting menu overview

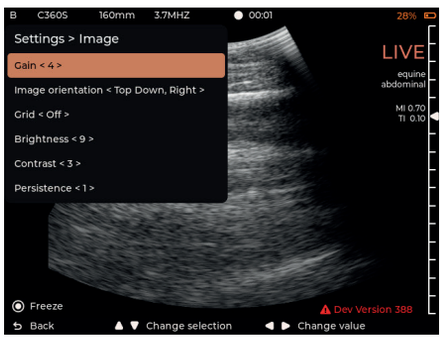
Access the general settings menu of the scanner by pressing the button .The settings drop down menu will appear. Choose the function from the drop down menu by navigating using up/down buttons and press OK button to confirm the selection.



6.2 Image submenu

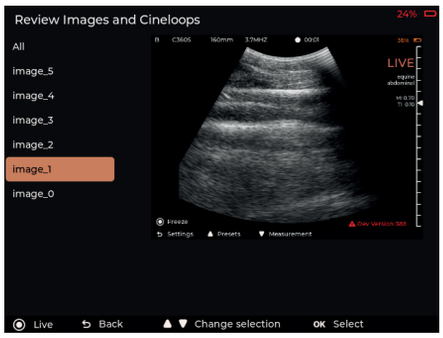
Choose the function from the drop down menu by navigating using up/down buttons.

Press left and right buttons to change the parameters of the image.



6.3 Review the images and clips

To review the images and cineloops menu and chose the images or clips you want to review by pressing up and down buttons. Confirm your selection by pressing OK

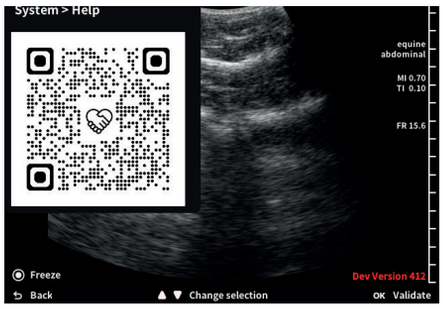


6.4 System

You can find help and about in the system menu.

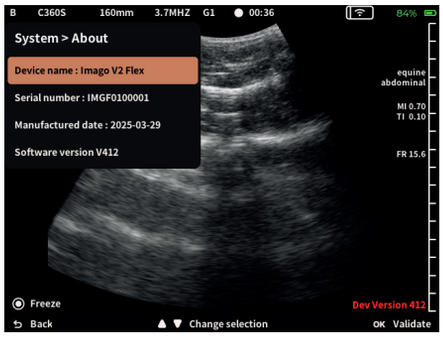
6.4.1

Help submenu allows access to the user manual, support page through QR code. Scan QR code and you will redirected to IMV Technologies webpage.



6.4.2

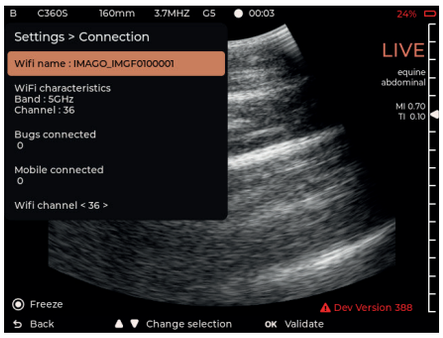
About submenu allows to see information about the device name, serial number, last serice date, update manufactured date as well as the software version.



6.5 Connection submenu

Connection submenu shows the information about the Wi-Fi network, band, number of channels and what devices are connected to the scanner.

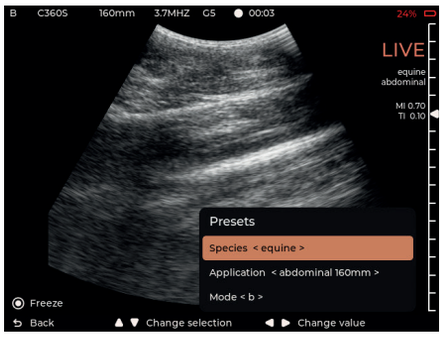
You can change the Wi-Fi channel to improve connection by pressing arrows to move backwords and forwards.



7. Presets and modes

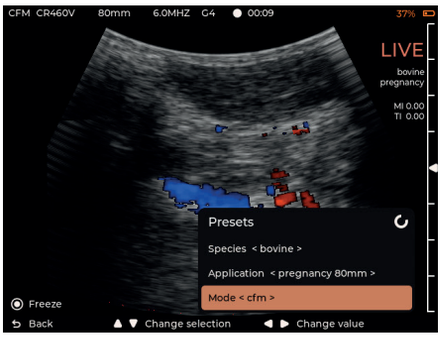
7.1 Menu overview

Presets menu allows to choose species and applications or change modes. Presets are already set up parameters (e.g. frequency depth) per specie, application and probe.
To access the presets press the button ▲ on the keymat.
Choose species, applications and mode by pressing the buttons ▲ ▼ or to change species , applications or mode press the buttons ◀ ▶ on the keymat.
There are many presets/application available on the ImaGo range. Please check the data sheet for more information.



7.2 Mode

There are 2 modes available on ImaGo range.
B and CFM (if CFM licence is purchased). Press ◀ ▶ to switch between CFM and B mode.



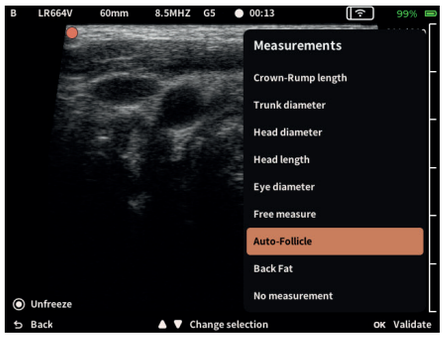
8. Measurement menu

8.1 Menu overview

This menu allows access to different type of measurements such as backfat measurements, age tables, free measurements and autofollicle measurements. To access measurements menu press the button ▼ of the keymat.

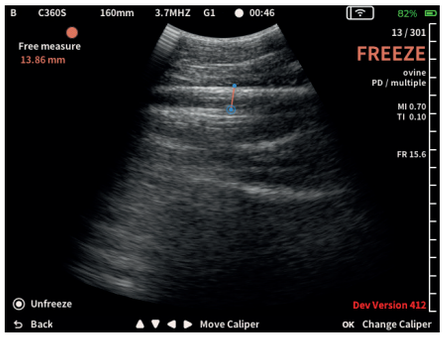
The measurements could also be accessed in freeze mode.

Choose the function from the drop down menu by navigating using up/down ▲ ▼ buttons.



8.1 Callipers

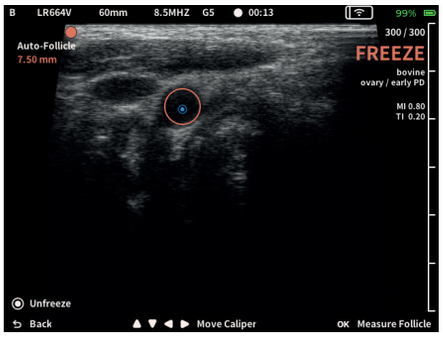
Once you have chosen the measurements, use arrows button ▲ ▼ ◀ ▶ to move calipers or adjust the length. To switch between one side of caliper to another press OK .
In free measurement menu more calipers can be added.
To remove callipers choose "No measurement" in the menu.
To hide callipers press OK .



8.2 Auto follicle

In measurement menu choose autofollicles. The blue dot appears. Move it using ▲ ▼. Press OK to activate autofollicle.
To remove it choose "No measurement" in menu.

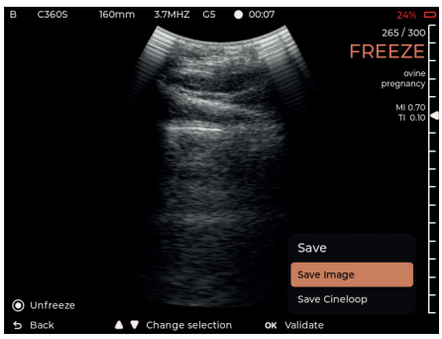
Availble measurements dependent on selected species.



9. Save images and videos menu

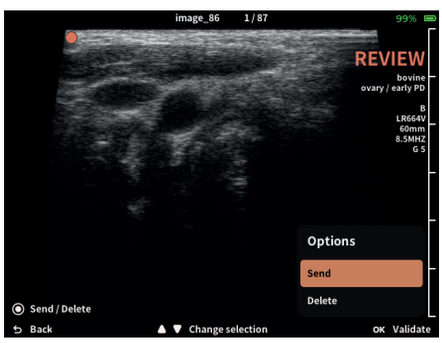
9.1 Save submenu

To save images and videos press the button freeze, press and chose save or delete image.



9.2. Retrieving images from the scanner

Press on the keymat to access the main menu. Choose "Review images and clips". Choose "All" or individual image or clip. Choose the individual image using buttons. Press OK to confirm your selection. Click and choose send or delete.



10. Additional viewing devices connection

You can connect any mobile device or IMV Technologies manufactured VGA or OLED goggles to ImaGo range.

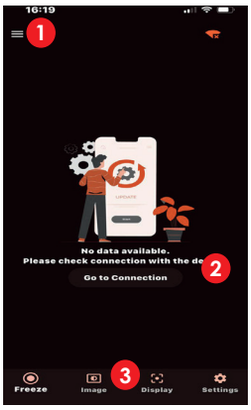
10.1 Goggles connection

Switch on goggles and the scanner. The goggles will automatically connect with the scanner.

10.2 Mobile devices connection

To connect mobile device open settings. Choose the scanner in the wi-fi setting of the mobile device. The app will connect with the scanner.

11. ImaGo connect app



1. Home side menu to access image/videos, system, connection, about and help
2. Shortcuts to connection if dsconnected.
3. Access to settings, display, image and freeze.

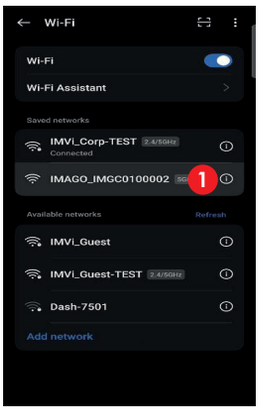
11.1 ImaGo connect app overview

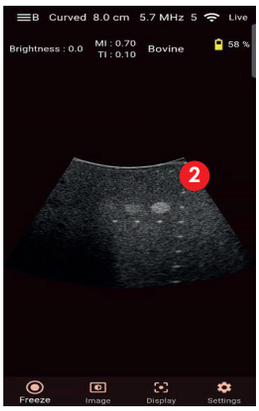
Go Imago Connect can be downloaded from any iOS or Android device app store.

11.2 Connection with ImaGo

Up to 3 devices can be connected to the scanner. To connect mobile device with the scanner. Switch on the scanner and wait until Wi-Fi Led illuminates on the keymat of the scanner. Open Imago connect app.

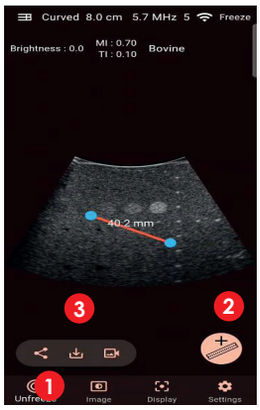
To connect the phone, go to the Wi-Fi settings on the phone and choose and select your ImaGo serial number. Return to Imago connect app. Once the scanner is connected the wireless device will appear on the screen of the scanner.





11.3 Freeze menu

Freeze menu allows to freeze the image and do measurements of the age of the foetus, backfat, loin muscle, auto follicle measurements and free style measurements.



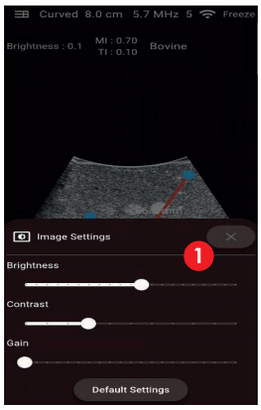
1 Freeze/Unfreeze

2 Add/Delete callipers

3 Save/Share image

11.4 Image menu

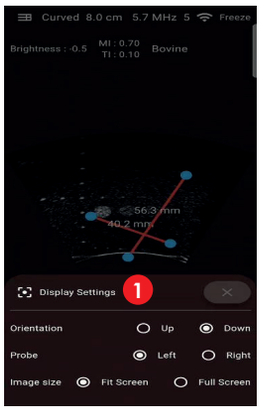
Image menu allows to change parameters of the image such as contrast, brightness and gain.



1 Adjust settings of the image by dragging the slider left or right.

11.5 Display menu

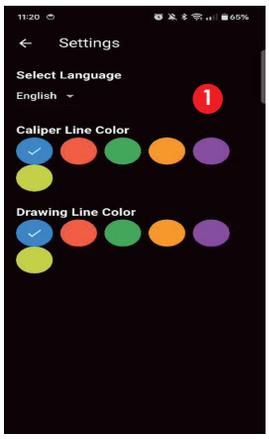
Display menu allows to modify the orientation of the image, probe or image size.



1 Adjust display settings by choosing orientation of the image or probe

11.6 Settings menu

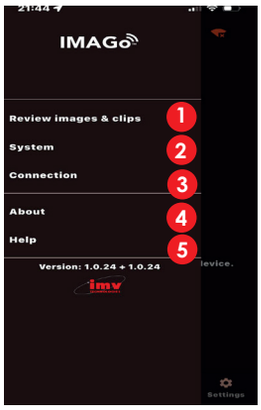
Choose the language and callipers' colour in this menu.



1 Choose the language of the menu or tick the colour of the callipers.

11.7 Home side menu

Home side menu is located in the right hand side of the screen and allows easy access to review images and clips, systems, connection and about and help submenu.



1 Access to saved images and videos.

2 Access to language and callipers colour choice submenu.

3 Wi-Fi Connections

4 Access to about page to check device name, serial number and software.

5 Access to manual or tutorial.

12. Accessories attachment instructions

12.1 ImaGo L&C arm strap attachment

Follow these steps to attach and detach the arm strap to the ImaGo L&C.

For right-handed users, it is recommended to wear the scanner on the left arm.

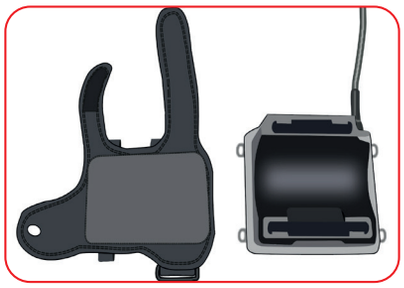
For left-handed users, it is recommended to wear the scanner on the right arm.

The description and drawings show the Left-Arm variant. The method is similar for the Right-Arm variant.

12.1.1 Attaching the arm strap to ImaGo scanner

Take the ImaGo scanner, and lay it face down, taking care not to scratch the Display Screen.

Lay the Arm Strap onto the scanner, so that the two long straps extend out from the top.



There are four small fabric loops on the arm strap, one at each corner of the pad. One at a time, slide each loop onto the plastic hooks on the back of the scanner.

Now check that all the fabric loops are hooked on fully. The arm strap is ready to use.

To detach the strap (for example for cleaning), carefully stretch each corner of the arm strap in turn, to unhook the fabric loop.

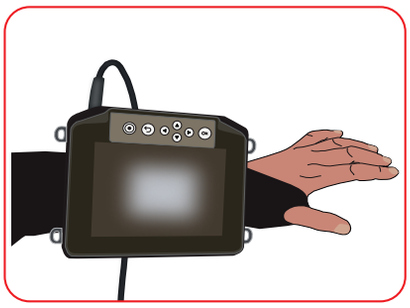
Take care not to catch the hook against the fabric, which may damage it, or yank the strap too hard as it may break the plastic hook.

12.1.2 Attaching the ImaGo Scanner to wearer's arm

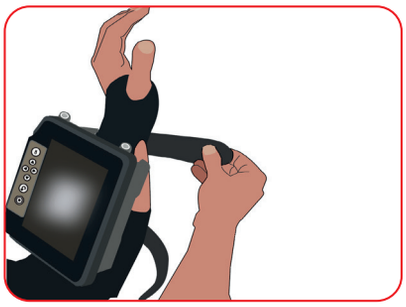
Take the ImaGo scanner with Arm Strap attached.

Rest the scanner loosely on your forearm, and slide your thumb through the hole on the strap.

With the other hand, grab the narrow strap and wrap it tightly around the wrist, between the scanner and the thumb.



Press the strap end down firmly to stick it. Make sure it feels comfortable and secure.



Now grab the larger strap, and feed it through the plastic buckle, towards you.

Pull the strap tightly and fold the strap back on itself to stick it down. Make sure it feels comfortable and secure.

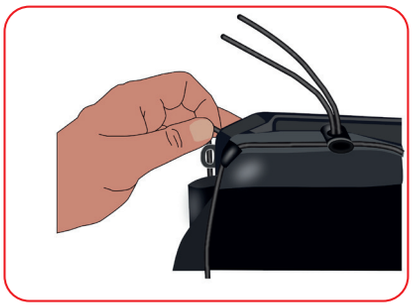
If the scanner does not stay securely in place, undo and reapply each strap in turn, making sure it is tight and secure.

12.2 Sun hood attachment

Follow these steps to attach the sun hood to the ImaGo scanner.

Take the ImaGo Sun Hood, and lay it loosely onto the ImaGo scanner with the lid flap pressed closed.

At each corner of the sun hood there is a small section of elastic cord visible. One corner at a time, hook the elastic cord under the metal loop at each corner of the scanner



Now go round and check that all the side panels of the sun hood are wrapped over the sides of the scanner. Adjust the sun hood position so that the scanner buttons can be pressed through the transparent window panel.

Use the tab at the front to peel open the lid flap. It should spring up and stay open.

If the lid does not spring open properly, adjust the toggle at each side of the lid.

Press the lid flap closed when not in use, to protect the screen of your ImaGo scanner.

13. Care and Maintenance

13.1 Cleaning

The ImaGo Flex is not waterproof so care should be taken to keep it away from water. The most effective and safest way to clean the ImaGo is with an antibacterial wet wipe.

ImaGo L & C are waterproof and shallow submerging is acceptable. Hosing down is not reccomended. Don't submerge the scanner in the water with the battery.

The scanner and power pack must not be stored damp – severe corrosion will result. Thoroughly dry the scanner before storage and charging. Take care to detach the external power pack and ensure interconnect areas are dry also.

13.2 Gels

Only use gel approved by IMV Technologies.

13.3 Storage

Clean and dry the probe head prior to storage in dry location. Do not store the transducer in gels or cleaning/disinfecting solutions. This will lead to premature deterioration of the probe.

Do not expose the transducer to materials containing the

following agents:

- Acetone
- Methanol
- Mineral oil
- Iodine
- Freon
- Industrial cleaner
- Materials containing, perfumes (lotions, gels, etc.)

Warning:
Never sterilize the transducer with autoclave, ultraviolet, gamma radiation, gas, steam or heat sterilization techniques. Severe damage will result.

13.4 Probes

Whilst every measure has been taken to ensure the probes are robust and fit for purpose, the probe head is still fragile and care should be taken to protect it from any knocks.

13.5 Specifications

Screen Size:	6.5 inch
Weight:	1.18-1.5 kg depending on model
Dimensions:	21 x 7/9 x 17 cm (depending on the model)
Channels:	32 receiving channels 16 true emission channels
Power and charging:	Interchangeable battery or external charger 4 hours with 'Power Save' Battery recharging time: 5 hours

Full list of the technical specification can be found in Data Sheet.

14. Certification

The Company IMV Technologies UK Ltd. is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device must be professionally installed.
This portable equipment with it's antenna complies with FCC's radiation exposure limits set forth for an uncontrolled environment. This equipment has shown compliance with FCC's Specific Absorption Rate (SAR) limits. To maintain compliance, follow the instructions below :
1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. A minimum separation distance of 0 mm must be maintained between the radiator (antenna) and user's/nearby person's body at all times.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This portable equipment with it's antenna complies with RSS102's radiation exposure limits set forth for an uncontrolled environment. This equipment has shown compliance with RSS102's Specific Absorption Rate (SAR) limits. To maintain compliance, follow the instructions below :
1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. A minimum separation distance of 0 mm must be maintained between the radiator (antenna) and user's/nearby person's body at all times.
Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

15. Service centres and Contact us

Your equipment should be returned periodically to a IMV service centre. Our qualified service engineers will use special test equipment to thoroughly check the instrument and advise of any work that appears to be necessary.
If your ImaGo requires servicing please contact an official authorised service center or the distributor in your country.

ImaGo does not contain user serviceable parts. Servicing has to be done by IMV Technologies authorised service centers.

Specilised ultrasound scanners service centers and offices:

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