imv imaging

REPRODUCTIVE AUSTRALIA

imv TECHNOLOGIES authorised partner

Quick Guide

Easi-Scan:Go™

Easi-Scan:Go™ curve

imv imaging BCF Technology ECM Echo Control Medical

Your complete animal imaging solution

Content

For guidance on getting the most out of the IMV Go Scan app, please refer to the app for help or visit the IMV imaging website www.imv-imaging.com

Certification

Hereby, IMV imaging (UK) Ltd., declares that the radio equipment type Easi-Scan:Go is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.imv-imaging.com/esg-doc/

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device. If the user makes any modifications not expressly approved by the party responsible for compliance it could void the user's authority to operate the equipment.

This device complies with Industry Canada's licence-exempt RSSs. 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 the device.

Cet équipement est conforme et se soustrait de Licence au Cahier des Charges sur les Normes Radioélectriques (RSS) d'Industrie Canada.

L'opération est soumise aux deux conditions suivantes:

1. Cet appareil ne cause pas d'interférence; et
2. Cet appareil accepte toute interférence, y compris les interférence pouvant provoquer un fonctionnement indésirable de l'appareil

Contains IC4511-WL18DBMOD

ANATEL
07346-19-09891

Agência Nacional de Telecomunicações

"Este equipamento naotemo direito a proteção contra interferência prejudicial e nao pode causar interferência em sistemas devidamente autorizados."

Note: All IMV imaging products are for animal applications only. The product shall not be used outside its scope as declared by the manufacturer.

1. Scanner menu

Up button
- Bring up and navigate the menu
- Adjust menu controls up

Down button
- Bring up and navigate the menu
- Adjust menu controls down

Action button
- To switch the scanner on / off, press and hold until it long beeps.
- Short press to freeze the image
- When navigating the menu, short press to select the menu option
- If on a congested Wi-Fi channel, with no viewing devices connected, double press to change the channel.

To navigate the menu:

- The Up / Down buttons will bring up the menu and allow navigating up / down the live and freeze menus.
- When a menu icon is displayed it can be selected by pressing the action button.
- The menu will timeout after 4 seconds if no buttons are pressed (Except the CFM Enable / CFM Disable options, these will never timeout. This allows quick enable / disable of the cfm with a single button press. To exit from the CFM Enable / Disable options just press up / down and allow menu to timeout)

Examples:

1. to change the gain, press down or up button until the gain icon is displayed, press action to select, then press up / down to change the gain.
2. to enable CFM, (Requires a CFM licence) press down or up button until the CFM Enable icon is displayed, press action to enable.

1.1 Scanner menu

In live scanning pressing “Up” button will bring up the gain menu.

Pressing “Down” button will bring up depth menu.

Once the gain or depth is visible, pressing the “Power Button” will select that setting. Use the Up and Down buttons to adjust the selected settings.

1.2 Saving images and videos using the scanner buttons

- Press up or down to navigate to the save image or save cine options
- When the save icon is displayed, press the action button to save, the menu will then disappear.

- Freeze the image using the action button
- Press up or down to bring up the menu

Note: A cineloop save will store the last 300 frames (10-12.5 seconds depending on the selected scan depth). To store images and cines using the scanner buttons, the scanner must be Frozen. During save, particularly cine save, the app will pause while frames are downloading and saving the data while scanning. It is recommended that you save images and videos directly from the app where possible. When the app is not connected, the scanner can store up to 100 images or 1 to 3 cineloops in its internal memory, these images are retained after power off and can be downloaded by the app at a later time. To download the images and cineloops from the scanner using the app, connect the app to the scanner with no other viewing devices connected, the app will automatically download the images and cines from the scanner, the images and cines are then deleted from the scanner.

2. LED sequence

Power LED	
Blue flashing	Scanner turning on
Blue	Scanner on and battery between 66–100% charge
Yellow	Scanner on and battery between 33–66% charge
Yellow flashing	Scanner on and battery between 0–33% charge
Wi-Fi LED	
Blue flashing	Scanner ready for smart device to connect, nothing connected
Blue	Smart device connected
Both LEDs	
Yellow flashing	Software updating

3. Activation

3.1 First time use

Download the IMV Go Scan app from Google Play or the App store.

You are likely to be prompted for a scanner software update on first time use. Please see Scanner Update section. To activate the scanner, ensure that the scanner is charged and that you have a local Wi-Fi internet connection. This is only necessary the first time you connect the scanner.

1. Press "Power button" to switch on the scanner. Open app on the smart device. The app will request to connect to the scanner. Click OK.

2. Select EASISCAN from the Wi-Fi page and return to the app. The app will get the serial number from the scanner.

3. App requests to connect to the internet. Click OK.

4. Select your local Wi-Fi network to connect to the internet.

5. App retrieves the license from IMV's license server and the app will request to connect back to the scanner.

6. Select your EASISCAN from the Wi-Fi page and return to the app.

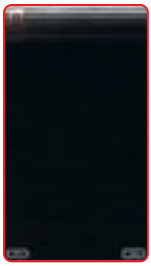
After a few seconds, the ultrasound image will appear. Touch anywhere on the screen to bring up the live scanning menu.

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

3.2 Normal start up process

1. Switch on the scanner and wait until the Wi-Fi LED illuminates. Launch IMV Go Scan App. App requests to connect to scanner.

2. Select your EASISCAN from the Wi-Fi page. Return to the App.



3. It can take up to 10 seconds to connect and start receiving ultrasound. You are now ready to scan.

3.3 Scanner Updates

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

After connecting to an EASISCAN, you may be prompted to update the scanner 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 User Settings section.

4.Factory reset

A scanner can be reset to factory firmware settings in the unlikely event the scanner fails. Hold down Power and Down until both LEDs glow yellow and release.

This will take a few minutes and the scanner will then switch off – removing the license from the scanner.

5. Charging

The battery can be charged in the charging dock, powered by a standard outlet. It can also be connected in the carry case for in-car charging.

LED sequence	
One blue flashing	Charging, charge level below 33%
First LED solid blue Second LED lashing 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.

A fully discharged battery should be fully charged within 5.5 hours. While in a good condition, the battery run time will be 5 hours (assuming 50% idle time between scans).

Scanner will enter low power mode when idle.

The Li-ion cells used in the battery pack do not suffer from the 'Memory effect'. 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.

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

6.Care & maintenance

6.1 Easi-Scan:Go & battery

Please note the following important points:

- The unit is not sealed against jets of water. Water will penetrate your scanner if it is hosed down or rinsed under a fast flowing tap.
- The unit is NOT corrosion proof and thus it should not be left wet.Take care to detach the external battery and ensure interconnect areas are dry also.

The battery charger and charging carry case are not waterproof – avoid getting them wet.

Probe

While every attempt has been made to make the probe as rugged as possible the crystal array remains vulnerable and should be protected from knocks. The probe has a protective sheath covering the length of cable subject to wear and flexing. Any damage to this sheath or the rest of the cable should be repaired before further use to prevent moisture ingress that will rapidly damage the probe. The probe should be checked regularly for such damage.

Cleaning

The scanner, battery and probe can be wiped down with an antibacterial wet wipe, reducing the need for drying. This prevents problems relating to corrosion following wash-down.

The scanner and power pack can also be cleaned using a cloth, soap and warm water. Sponging down or even brief, shallow submersion is less aggressive than rinsing or hosing down.

Warning: 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.

Gels

Use only gels recommended by IMV imaging. Do not store the probe in gel.

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 cleaners
- 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.

7. Specifications

Size	19x8.3x6.2cm
Weight	7.5 x 3.25 x 2.4 in
Mechanical	800g/1.76lbs
	Rugged Glass filled

Polypropylene casing with TPE over mould.

Scanner operating frequency bands: B1=2412MHz-2462MHz and B2=5150MHz-5250MHz

Maximum radio-frequency power transmitted in the frequency bands: 16.1dBm for B1 and 18dBm for B2.

User Output

Scanner wireless link to compatible viewing device using IMV Sound-Link over standard WI-FI connection.

Image and video storage

Storage of images and cine loops limited only by available space on smart device linked with scanner.

Easi-Scan:Go Probe

Fixed Broadband linear rectal
Active array length 64 mm
Frequency range 4.5 to 8.5 MHz
3 user selectable depths of scan: 6cm, 8cm,12cm

Easi-Scan:Go Curve Probe

Fixed Broadband curved rectal
Active array length 64 mm
Frequency range 4.5 to 8.5 MHz
4 user selectable depths of scan: 8cm, 12cm, 16cm and 24cm
128 element crystal array.

Power and charging

Removable li-ion battery gives 5h runtime *
Battery charge time 5.5h. Only use IMV approved/supplied battery, 12V vehicle power supply, battery charger and DC power adapter.

ESG-CHARGER: Input: 12V, 2A / Output: 4.2V, 2A.

IMV Vehicle Power Outlet/Cigarette Plug Cable (Model: ACC-DC LEAD):12VDC, 2A Fused.

Only to be used when charging from a vehicle supply.

Only replace fuse with 2A medium acting fuse rated to 125V, 10kA breaking capacity (F2A M125V).

DC power Adapter (XP Power, Model: VEP24US12): Input: 100-240VAC, 0.6A/Output: 12VDC, 2.0A

Battery (Model: ESG-BATT): 3.6Vdc, 6700mAhr.

Scanner will enter low power mode when idle.

Temperature range

Scanner: -10 Deg C to 45 Deg C *.

Battery Charge: 0 Deg C to 35 Deg C *

Battery Charger has under and over temperature protection and LED status indication.

Warning:

manufacturer, the protection provided by the equipment may be impaired.

* Best charged at 25 Deg C, frequent charging at 35 Deg C / 95 F may shorten battery lifetime.

Warranty

IMV imaging warrants Easi-Scan:Go against defects in materials for one year from the date of purchase. IMV imaging does not warrant against normal wear and tear,

Smart devices compatibility

Android:

Minimum version: Kit Kat (Android V4.4)
Minimum RAM: 2Gb
Minimum Processor: Quad-Core 1.8GHz
Recommended WiFi: 802.11 a/ac (5GHz band)

Apple:

Minimum version: iOS 8

Minimum iPhone version: iPhone 5s Minimum iPad version: iPad4

For further information and video manuals about the Easi-Scan:Go please visit the "Customer support" section of the IMV website www.imv-imaging.com/international/service-support.

8. Service centres

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 Easi-Scan requires servicing please contact an official authorised service center or the distributor in your country.

Easi-Scan:Go does not contain user serviceable parts. Servicing has to be done by IMV´s authorised service centers.

United Kingdom HQ

IMV imaging
Imaging House
Phoenix Crescent
Strathclyde Business Park
Bellshill ML4 3NJ
Scotland, UK

+44 (0) 1506 460 023
info@imv-imaging.com
www.imv-imaging.co.uk

Ireland

IMV imaging Ireland
Unit 2, Block 3
City North Business Campus
Gormanston, Co. Meath
K32 ER81
Ireland

+353 (0) 42 932 0070
ireland@imv-imaging.com
www.imv-imaging.ie

France

IMV imaging France
126, Boulevard de la République
16000 Angoulême, France

+33 5 45 92 03 57
france@imv-imaging.com
www.imv-imaging.fr

South Africa

IMV imaging South Africa (Pty) Ltd
6 Crieff Road
Parkview
Johannesburg, 2193
South Africa

+27 82 6164685
service.rsa@imv-imaging.com
www.imv-imaging.co.za

North America IMV imaging

North America,
2900 43rd St NW, Suite 600
Rochester, MN 55901

(507) 529-8200
(800) 210-9665
contact@imv-imaging.com
www.imv-imaging.com

India

IMV India Pvt. Ltd.
Plot No. 750, Phase-V,
Udyog Vihar, Gurugram – 122016,
Haryana, India

+91 124 4770707
india@imv-imaging.com
www.imv-imaging.in

Contact us now

www.reproductiveaustralia.com.au

office@reproductiveaustralia.com.au