

Data Sheet

ImaGo Flex



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Product Description

- **On-the-Go** Ideal for mixed practice veterinarians on the move, The ImaGo Flex weighs 1.5 kg and with its interchangeable probes and presets is ideal for the vets that move between the farms.
- **Extensive application range:** The ImaGo Flex comes with a comprehensive range of probe and accessories to support you in various use cases and workflows.
- **Cutting-Edge Software:** Equipped with automatic follicle sizing and ageing tables as well as regular upgrades to your image quality, the ImaGo allows for quick and accurate diagnosis
- **User-Centric Design:** Our scanner is designed with your comfort in mind. Experience the convenience of a portable ultrasound system that can be used effortlessly in different settings.

1 General Specifications

1.1 Dimensions and Weight

- Width: 21 cm
- Depth: 7 cm
- Height: 17 cm
- Weight: 1.5 kg with the battery and C360S probe

1.2 Electrical Power

- Works on interchangeable battery
- Battery autonomy: 4 hours with 50% use, 50% idle
- Battery recharging time: 5.5 hours
- Battery charger power supply
- Voltage: 12 V, 2A

1.3 Console Design

- Probes interchangeable
- Dual band Wi-Fi a/b/g/n

1.4 Processing

- Digital beamformer
- Parallel beamforming
- 16 true emission channels
- 32 reception channels
- Continuous dynamic focusing in receive
- 256 shades of grey
- Image processing upgrades
- Boot up: less than 15 sec

2 User Interface

2.1 Operator Keyboard

- 7 -button membrane panel

2.2 Display

- 6.5 inches LCD
- Digital Brightness/ Contrast Adjustment
- MI: Mechanical Index
- TI: Thermal Index
- Screen resolution 640 px x 480 px, 800 cd/m², high contrast, 900:1, wide viewing angle

3 Operating modes

- B mode
- Color Flow Mapping (CFM) Velocity

4 Settings

- Timer: switches on/off automatically when the scanner is on or off.
- Image storing formats - Jpeg (.jpeg)
- Clip storing formats - Video H264 (.mp4)
- Individual user protocols for each application
- Export of images, clips, to external media via Wi-Fi to the mobile app: Imago Go
- connect
- Image orientation: Invert left-right and up-down.
- Grid, gain, contrast, persistence, freeze, saving images and clips.

5 B Mode imaging

- Depth: from 5 cm (probe dependent)
- Multi-frequency wideband technology on all probes
- Distance: various measurements on frozen image.
- Foetal ageing
- Advanced imaging using wide aperture receive.
- Smoothing using persistence and 2d smoothing filter. Firmware frame averaging up to 4 Frames, B-Mode only
- Firmware 2d smoothing filter
- 9-33 frames per sec depending on Preset

6 Color Flow Mapping (CFM) Mode imaging

- CFM settings on certain presets
- Preset changes depending on the probe
- CFM gain: 0-9
- CFM PRF: 1000

7 Presets

- 47 presets -B mode
- 7 presets-CFM mode
- Presets will vary depends on probe and species
- Presets are displayed on the screen

8 Freeze - Cineloop

- Cineloop window: 300 frames
- Cine-review: Frame by frame, Loop
- ImaGo Currently uses 256 MByte of flash for data storage, this allows for storage of around 1000 images or 15 Cine loops (300 frames / 15second long)
- Measurements and calculations on frozen and

- live images and clips
- Can be exported to mobile
- Review of stored images and clips on mobile.
- Export of stored images and clips to mobile via Wi-Fi and Go app.

9 Applications

- Reproduction
- Abdominal
- General
- Non-reproduction

10 Waterproofness

- Designed to IP32 standard

11 Probes: LR664V, C360S, CR460V, L3130B2, L3180B, OPU610B, OPU614B

C360S Convex probe:

Applications: *musculo-skeletal, cardio on horses, abdominal, small parts on small animals*

- Wideband
- Central frequency: 3.5 MHz
- B-Mode frequencies: 2.5, 3.7, 5.0 MHz
- Number of elements: 128
- Pitch: 0.5 mm
- ROC (Radius of Curvature): 60 mm
- Aperture: 14 mm
- Angle: 60°

LR664V Wide Band linear probe

Applications: *OB/GYN; Foetal sexing, Ovarian diagnosis, follicles visualization*

- Wideband
- Central frequency: 6.5 MHz
- B-Mode frequencies: 5, 7.5, 8.5 MHz
- CFM mode frequencies: 5.0, 7.5 MHz
- Number of elements: 128

- Pitch: 0.5 mm
- Aperture: 8.5 mm
- FOV: 64 mm

CR460V Wide Band linear probe

Applications: *OB/GYN; Foetal sexing, Ovarian diagnosis, follicles visualization*

- Wideband
- Central frequency: 4 MHz
- B-Mode frequencies: 2.7, 4.3, 5.7 MHz
- CFM mode frequencies: 3.0, 4.3, 6 MHz
- Number of elements: 128
- Pitch: 0.5 mm
- ROC (Radius of Curvature): 60 mm
- Aperture: 9.5 mm
- Angle: 61°

L3130B2 Large linear probe

Applications: *back fat & muscle – loin eye area & depth – IMF (pigs mainly)*

- Wideband
- Central frequency: 3.5 MHz
- B- Mode frequencies: 2.5,3.5;5 MHz
- Number of elements: 128
- Pitch: 1 mm
- Aperture: 10 mm
- FOV: 128 mm

L3180B large linear probe

Applications: *back fat & muscle – loin eye area & depth – IMF (cows & buffaloes mainly)*

- Central frequency: 3.5 MHz
- B- Mode frequencies: 2.5,3.5;5 MHz
- Number of elements: 128
- Pitch: 1.4 mm
- Aperture: 12 mm
- FOV: 180 mm

OPU610B Ovum Pick up probe

Applications: *Ovum pick up for small horses and heifers*

- Wideband

- Central frequency: 6.5 MHz
- B-Mode frequencies: 7.5 MHz
- Number of elements: 128
- ROC: 10mm
- Pitch: 0.209mm
- Aperture: 10 mm
- FOV: 153°

OPU614B OPU Pick up probe

Applications: *Ovum pick up for larger horses and cows*

- Wideband
- Central frequency: 6 MHz
- B-Mode frequencies: 7.5 MHz
- Number of elements: 128
- ROC: 14
- Pitch: 0.17 mm
- Aperture: 4.2 mm
- FOV: 89°

12 Inputs and Outputs

- Wi-Fi 802.11 b/g/n

13 Safety Conformity

- CE Marked to Council Directive
- 93/42/EEC on Medical Devices
- Conforms to the following standards for safety:
 - EN 60601-1 Electrical medical equipment
 - EN 60601-1-1 Electrical medical equipment
 - EN 60601-1-2 Electromagnetic compatibility
 - EN 60601-1-4 Programmable medical systems
 - EN 60601-2-37 Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
 - ISO 10993 Biological evaluation of medical devices

14 Mobile app

- Go app Available: iOS and Android
- Function: save images and videos
- Backfat measurements
- Trace measurements

Not all features or specifications described in this document may be available for all probes and/or modes. IMV Technologies reserves the right to make changes in specifications and features shown herein, or discontinue the product at any time without notice or obligation. **Contact IMV Technologies representative for the most current information.**

