ImpediMed

Accurate. Flexible. Portable.

Introducing the ImpediVET™

BioImpedance Spectroscopy (BIS): The Ultimate for Body Composition and Fluid Status. Now Available for Animal Research.

ImpediVET: Supreme accuracy and precision using BIS.

The **ImpediVET** is a single channel, tetra polar bioimpedance spectrscopy (BIS) device that scans 256 frequencies between 4 kHz and 1000 kHz in less than a second. The device utilizes Complex Impedance Plotting to determine total body water (TBW), extracellular fluid (ECF) and intracellular fluid (ICF) from impedance data. Fat-free mass (FFM) and fat mass (FM) are then calculated on the device. Further data analysis can be undertaken in the supporting software included with device.

FOR ADDITIONAL INFORMATION, PLEASE VISIT US AT:
www.impedimed.com

Accurate.

Validation studies confirm that bioimpedance spectroscopy correlates highly with DEXA and reference methods providing you with accurate assessments of Fat Mass, Fat Free Mass, Total Body Water, Intracellular Fluid and Extracellular Fluid.

Flexible.

The **ImpediVet** can be used on multiple species, with use of preprogrammed species information and flexibility to enter user-defined species information. **ImpediVET** can be used on both large and small animal species.

Portable.

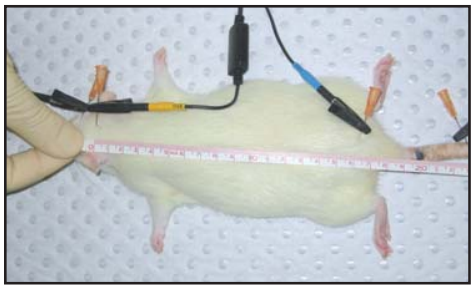
On-board computing, touch screen operation and lithium battery power-source allows for testing in a variety of laboratory settings. Easy to clean surface allows for use in clean rooms or bioharzardous areas.

ImpediMed, Inc.

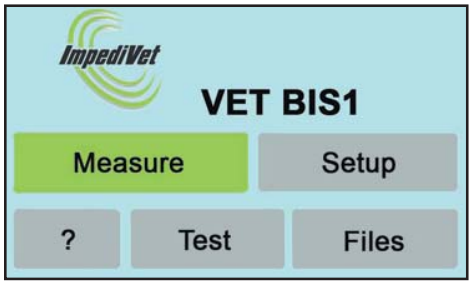
1.877.247.0111 www.impedimed.com info@impedimed.com

ImpediVET: quick and easy to use*

STEP 1: Anaesthetize subject with inhalation anaesthetic and lie flat dorsal side up with limbs perpendicular and tail straight. Shave the four sites for electrode placement or insert needle electrodes.



STEP 2: Attach leads to electrodes according to electrode placement chart and measure length between the sense (proximal) electrodes.

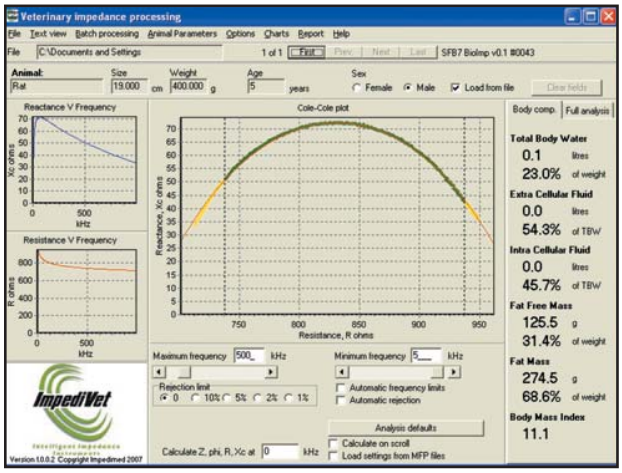


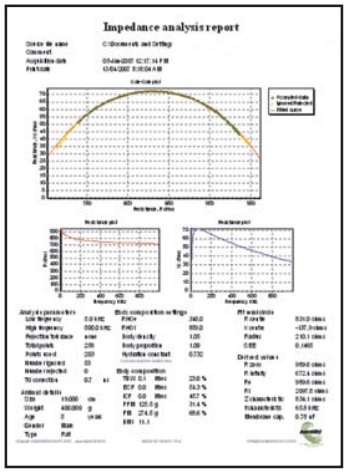
STEP 3: Turn on device and enter subject information. Press "Measure".

**ImpediVET is designed for use in animals and is not intended for human use.*

ImpediVET: result analysis

ImpediVET software generates comprehensive reports, allows sophisticated data analysis and also provides access to raw impedance data.





ImpediVET: specifications

FREQUENCY
4 to 1000 kHz

NUMBER OF FREQUENCIES
256

IMPEDANCE RANGE
10 to 1100 ohms

IMPEDANCE ACCURACY
+/- 1.0% 50 to 1100

PHASE RANGE
- 90˚ to + 90˚

PHASE RESOLUTION
0.1

PORTABILITY
Full on-board computing

MEASUREMENT TIME
Less than 5 minutes (includes setup time)

SOFTWARE
Analysis software provided (Windows compatible)

DATA TRANSFER
Ethernet

DIMENSIONS
L = 190 mm (7.5 in), W = 130 mm (5.1 in)
D = 110 mm (4.3 in)

WEIGHT
1 kg (2.2 lb)

DISPLAY
320 x 240 pixel 1 /4 VGA LCD display

MEASURED DATA DISPLAYED
Complex impedance plot (resistance vs reactance), frequency vs resistance, frequency vs reactance, characteristic frequency, mean cell membrane capacitance

CALCULATED DATA DISPLAYED
Fat-free mass (FFM), fat mass (FM), total body water (TBW), intracellular fluid (ICF), extracellular fluid (ECF)

POWER REQUIREMENTS
Internal rechargeable Li-ion batteries

ELECTRODE LEADS
Shielded cable of 1.5 m (1.6 yd) lengths

MEASUREMENT MODE
Tetra polar

DATA ACCESSIBILITY
Full raw data access

ORDERING INFORMATION:
ImpediVET Catalog #IA02VET1

ImpediMed

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