

# SFB7. For the Next Generation in Body Composition Analysis

## Imp™ SFB7.

Select the latest generation in Bioimpedance spectroscopy (BIS)

- 256 frequencies
- Greater accuracy and precision



## impedimed®

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## Specifications (BIS mode)

### Frequency:

4 to 1000 kHz

### Number of frequencies

256

### Impedance range

10 to 1100  $\Omega$

### Impedance accuracy

+/- 1.0% 50  $\Omega$  to 1100  $\Omega$

### Phase range

-90° to +90°

### Phase resolution

0.1°

### Portability

Full on-board computing

### Measurement time

Less than 1 second

### 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

Cole-Cole 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

# ImpediMed Imp™ SFB7: Supreme accuracy and precision using BIS

The Imp™ SFB7 is a single channel, tetra polar bioimpedance spectroscopy (BIS) device that scans 256 frequencies between 4 kHz and 1000 kHz. The device utilises Cole modelling with Hanai mixture theory 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 (supplied). Therefore, no population specific prediction equations (algorithms) are required for data analysis.

## Imp™ SFB7

- Bioimpedance spectroscopy - 256 discrete frequencies
- Single channel - tetra polar configuration
- Portable - full on-board computing
- Touch screen
- Low noise data generation no high frequency hook effect
- Highly accurate body composition analysis
- Readings in less than one second
- Advanced options - user-definable hydration coefficient
- Full access and disclosure of all raw data
- Supplied with case, electrodes and clips, leads and software on CD-ROM

## Quick and simple

Instructions for use in BIS mode \*

1. Turn device on.
2. Place electrodes on hand and foot in correct position on the same side of the body.
3. Plug leads into the device.
4. Select Measurement setup on the menu, enter patient details and select measurement setting.
6. Touch the "Measure" button to make a measurement.

\* Always refer to the Instructions for Use prior to operating the device



**Measurement results:** The first screen displays TBW, ECF, ICF, FFM and FM. Further displays include display of Cole-Cole and resistance and reactance plots.

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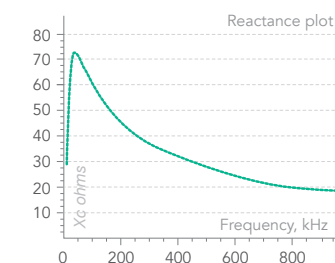
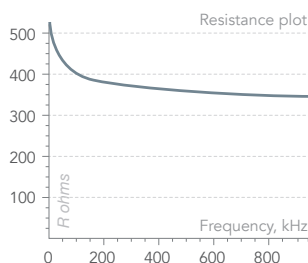
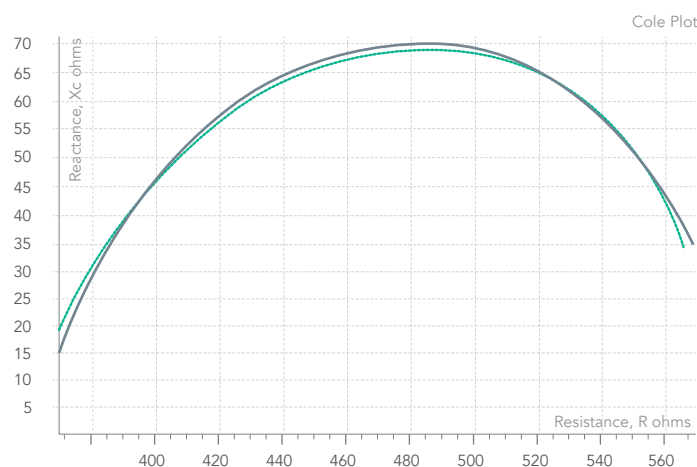
## Comprehensive Reports

The ImpediMed device software generates comprehensive reports and allows sophisticated data manipulation

### Impedance analysis report

Source file name: C:\sfb7\patient report.mfu  
Comment: 20/05/2005 02:43:12 PM  
Acquisition date: 15/06/2005 11:35:12 AM  
Print date: 15/06/2005 11:35:12 AM

Accepted data  
Ignored/Rejected  
Fitted curve



Analysis Parameters	Fit semicircle	Body composition
Low frequency: 3.1 kHz	R centre: 480.3	TBW: 48.9 litres
High frequency: 1000.5 kHz	H centre: -67.5	ECF: 23.5 litres
Rejection tolerance: none	Radius: 138.9	ICF: 25.4 litres
Td correction: -8.0	SEE: 0.4934	FFM: 66.8 kg
Total points: 256		FM: 18.4 kg
Points used: 256		BMI: 23.9
Number ignored: 0		
Number rejected: 0		

Body composition settings	Patient details	Derived values
RHOe: 340.10	Height: 1.89 cm	R zero: 601.7 ohms
RHOi: 859.0	Weight: 85.2 kg	R infinity: 359.0 ohms
Body density: 1.05	Age: 33 years	Re: 601.7 ohms
Body proportion: 4.30	Sex: Male	Ri: 890.0 ohms
Hydration constant: 0.732		Z characteristic: 458.6 ohms
		f characteristic: 29.0 kHz
		Membrane cap: 3.68 nF