



# BIOSCOPE

## Safe Protection of Neural Functions

General Features
Auditory and visual feedbacks
Data recording and reporting
Electrode status control with impedance measurement
Artefact protection

EMG Amplifier	
Input	1/2 channels
Automatic/Manual Gain Selection	1-50K
Band Width	30 Hz-30 KHz
Operating Voltage	50 Vpp
Sound Pressure Level	85 dB
Frequency Value	500 Hz-1 KHz
Current Value	10 mA
Input Noise	8 nV/ $\sqrt{\text{Hz}}$ maximum input voltage noise at 1 kHz 100 fA/ $\sqrt{\text{Hz}}$ current noise at 1 kHz
Input Sensitivity	1 uV-40 mV
Common Mod Rejection	>90 dB@60 Hz
DC Offset rejection	$\pm 4.00$ vDC
Input Impedance	30 G $\Omega$

Screen Features
10.1 sized touchscreen
1024 x 600 resolution
50uV-50mV uV Vertical Screen Modes
Hibernate (Display Disable Mode)

Electrical Supply	
Current	2 A
Power	40 W
Voltage	19 VDC
Usage of Medical Grade Adaptor	
Double Electrical Isolation	
2 hour battery strength	

Alarms
Battery Alarm
Probe Connection Alarm
High Current Alarm
High Voltage Alarm
High Temperature Alarm
Voltage Alarm

Stimulator Parameters	
Current	0.01-30 mA
Frequency	1 Hz-5 Hz
Output Sensitivity	$\pm 0.01$ mA $\pm 10\%$
Measurement Sensitivity	$\pm 0.02$ mA $\pm 10\%$
Compliance Voltage	36 V (Optional 90V)
Wave Width	50, 100, 150, 200, 250, 300 us
Time Period	10, 20, 30, 40, 50, 100 ms
Stimulator Setting	Control of stepped encoder that shows the target current and transmitted current
Time to reach target current	Less than 10 us

Physical Properties	
Height	30 cm
Depth	12 cm
Width	35 cm
Weight	4.5 Kg

Modes
Single channel measurement
Dual channel measurement

Internal Fuse
32 mA Model F, 250 V 5 x 20 mm (Other similar fuses may not provide the same degree of protection.)