CMRR 3.0+

Common Mode Rejection Ratio Tester

The CMRR Tester Combining Accuracy, Convenience and
Test Automation All Together

• CMRR Tester designed for diagnostic ECG, monitoring ECG, ambulatory ECG and EEG monitor

• Extreme shielding structure to avoid internal and external noise interference

• Built-in calibrated sine wave generator and Vc voltage measuring circuit to assure output accuracy level

• Exclusive shielding covers can be added for higher CMRR requirement

• Touch screen maximizes the test efficiency in standalone operation

• PC software operation allows to control and conduct test via mouse clicks

• Optional Standard Assistant software pack simplifies the medical standard with test sequences, options, parameters and pass criteria

• Software Development Kit (SDK) assists users in developing customized or automated test software with less efforts
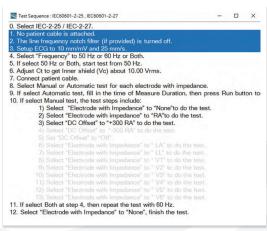
Medical Standard Coverage

IEC 60601-2-25, IEC 60601-2-27, IEC 60601-2-47, IEC 60601-2-26,
GB 9706.225, GB 9706.227, YY 9706.247, GB 9706.226,
YY1079, YY1139, YY0782, YY0885, AAMI EC11, AAMI EC13

R&D   Compliance   Production Line

CMRR 3.0+ Specifications

Item	Option	Specifications
Supply voltage	0.5 / 2.828 / 20 / 2 / (70.71) (Vrms)	±1% *
CM point voltage	1.414 / 10 / 1 / (35.355) (Vrms)	±1% (0.25Vrms ±2%)
Frequency	50 / 60 / 100 / 120 (Hz)	±1%
Electrode with Impedance	Change electrode via the touch screen of CMRR 3.0+	None / RA / LA / LL / V1 / V2 / V3 / V4 / V5 / V6 / ALL
Electrode without Impedance	Change electrode via the touch screen of CMRR 3.0+	RA / LA / LL / V1 / V2 / V3 / V4 / V5 / V6
Imbalance impedance, R	51kΩ	51kΩ ± 1%
Imbalance impedance, C	47nF	47nF ± 5%
DC offset	Powered by a replaceable preinstalled battery, can be added on RA / LA / LL / V1 ~ V6	300mV ± 1% Up to 40hrs with intermittent use
100 pF capacitor	Use 11 : 1 (110MΩ : 10MΩ) voltage divider to measure indirectly	100pF ± 5%
Environment	Intended for normal laboratory environment. The selection of critical components is known to be stable in the range shown. The 110MΩ divider may be affected by high humidity in excess of 85%	15-30°C 10-75% RH

*Require to measure with the multimeter of higher accuracy.

CMRR Assistant Software Pack Allows User to Test with Ease

• Follow the instruction step by step to proceed required tests

• Detailed test sequences for user to test with confidence