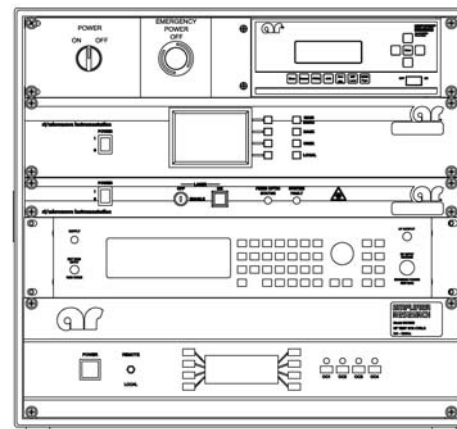


Model RI06000
RF Radiated Immunity System
100kHz–6GHz

Complete Testing Solutions to the following standards:

- EN/IEC 61000-4-3
- EN/IEC 60601-1-2
- EN 50130-4
- EN 61000-6-1/2
- EN 55024

The Model RI06000 is a state-of-the-art system designed to test RF Radiated Immunity. The RI06000 contains all the instruments needed to perform radiated immunity testing for IEC 61000-4-3 specification except the required amplifiers, antennas and directional couplers.* Amplifiers can be sized and selected based on your required field levels and testing needs. Up to 4 RF amplifiers and directional couplers can be controlled and monitored. The system contains a signal generator, a 2 channel power meter, 2 power heads, RF field probe/monitor, RF switch matrix, and automated radiated immunity test software. Everything is contained in a single housing, which eliminates setup issues. This system will have the versatility needed for every test laboratory and equipment manufacturer. The signal generator, RF field probe, RF Switches, and Power meters all can be used independently of the system. The use of spectrum analyzers and monitoring equipment may also be controlled by the software. The RI06000 can easily be connected to high-power RF amplifiers and directional couplers to allow for easy test automation.



Internal Test Specifications	
IEC/EN 60601-1-2 IEC/EN 50130-4 IEC/EN 61326 IEC/EN 61000-6-1 IEC/EN 61000-6-2 CISPR 24/EN 55024	IEC 61000-4-6 procedure and levels

Signal Generator Specifications	
Frequency range resolution	100 kHz to 6 GHz 1Hz
Power range resolution	-140 to +13 dBm 0.1dB
Modulation	AM, FSK, Pulse, FM, Phase, External Pulse

Power Meter Specifications	
Channels	2
Power heads	2
Type	diode
Frequency	10kHz to 8GHz
Range	-60 to +20 dBm

Connections	
RF signal input	2 SMA Male (rear) For optional signal generators
RF Signal Out	4 SMA Male (rear) to RF amplifiers
High power RF in	4- Type N Male (rear) from RF amplifiers
High power RF out	4 Type N male (rear) to antennas/loads
Monitor port In	8- SMA Male (rear) 4 for forward power 4 for reverse power
Signal Generator out/in loop	Type N Male (rear)
Modulation In	BNC Male (rear)
Receiver output	SMA Male To switch in an RF receiver for emissions testing
Communication	GPIO (IEEE 488) (rear)

*For amplifiers, directional coupler and antenna selection, please refer to Application Note #41A and contact an applications engineer at 1-800-933-8181 with any questions.

General	
Power	115/230 VAC 50/60 Hz, single phase 16A
Breaker	2 pole, 20A
Cooling	active cooling, air ventilation
Environmental conditions	10°C - 40°C
Dimensions,	50.3 x 42.2 x 52.1 cm 19.8 x 16.6 x 21.7 in
Weight	22.7 kg (50.0 lb)

PC Requirements	
Computer	Pentium III, 500 MHz Minimum Pentium IV, 1 GHz Recommended
Operating system	Windows NT, 2000, XP
RAM	128 Mb Minimum
Screen Resolution	1024 x 768
Expansion	2 available PCI slots for GPIB and DAQ cards

Field Monitor/Probe Spec	
Channels	4
Probe	1
Type	Isotropic, Laser powered
Frequency	100kHz-6GHz
Range	0.5-800 V/m

Model	Description
RI06000	Rack-mounted system including automated radiated immunity test software, signal generator, power meter, 2 power heads, field monitor, probes, and RF switch matrix.
RI06000M1	RI06000 with desktop PC, preloaded with GPIB, DAQ cards and control software.
RI06000M2	RI06000 with laptop PC, preloaded with GPIB, DAQ cards and control software.