



**Model AS01016, M1-M3  
AR System  
100MHz–1GHz**

The AS01016 AR System has been specially designed to perform Mil Std radiated immunity testing up to 400V/m @ 1 meter test distance. The system consists of the AR RF/Microwave Instrumentation equipment listed below. Please refer to individual product specification sheets for details.

The system is composed of a portable field generating platform containing shielded equipment racks of equipment for generation and amplification of the signal and an antenna mast to support the field generating antenna.

Input power will be filtered and distributed internally. A fiber-optically isolated GPIB interface is also provided. RF output connections will be through a bulkhead connector located in the top of the rack. The frequency matched antennas will be mounted and cabled to the antenna mast and be user adjustable for both horizontal and vertical polarization.

The SC1000M3 system controller allows manual and remote signal routing of RF signals both to and from the amplifiers, including feedback from dual directional couplers.

A forward power sample port, external signal input port, and external modulation input port are included and located on the side of the rack.

The side of the equipment racks facing the antennas will be covered in RF absorber to minimize reflection.

<b>Equipment list:</b>	<b>AS01016</b>	<b>AS01016M1</b>	<b>AS01016M2</b>	<b>AS01016M3</b>
Model 2000W1000A, RF Amplifier, 80 MHz–1 GHz, 2000 Watts CW	1	1	1	1
Model DC6380, Dual Directional Coupler, 80 MHz–1 GHz, 3000 Watts	1	1	1	1
ETS Model 3112, Double-Ridged Guide Antenna, 100 MHz–1 GHz	1	1	1	1
Model ATH200M1GM2, High Gain Horn Antenna, 200 MHz – 1 GHz	1	1	-	-
Antenna Mast, manual height, polarization, and focus adjustment	1	1	1	1
Model SC1000M3, System Controller, DC–18 GHz	1	1	1	1
Signal Generator, 100 kHz–1 GHz, Agilent N5181A-501 or equivalent	1	1	1	1
Model PM2003, Power Meter, 3 channel	1	1	1	1
Model PH2000, Power Head, 10 kHz–8 GHz, -60 to +20dBm	2	2	2	2
Model FM7004M1, Field Monitor	1	1	1	1
Model FL7006/Kit M1, Isotropic "E" Field probe kit, 100 kHz–6 GHz, .5–800V/m	2	2	2	2
Desktop PC, preloaded with SW1007 software	1	-	1	-
Laptop PC, preloaded with SW1007 software	-	1	-	1
Color laser printer	1	1	1	1

### Field Generation Platform Specifications:

	Control Rack	2000W1000AM3	Base Assembly
Size (H x W x D)	60 x 22.06 x 44.4 in (152.4 x 56.03 x 112.78 cm)	60 x 76.3 x 44.4 in (152.4 x 193.8 x 92.46 cm)	12.0 x 48 x 144.0 in (30.5 x 121.92 x 365.76 cm)
Total Weight	150 lbs (68.2 kg)	1850 lbs (840.9 kg)	400 lbs (181.8)
Power Input	120/208 VAC , 50/60Hz, 3phase, 60A 240 VAC, 50/60Hz, 1phase, 60A 240/415 VAC, 50/60Hz, 3phase, 30A		

