



**Model AS02000
AR System
1-2.5GHz**

The AS02000 AR System has been specially designed to house, in two EMI shielded equipment racks, the AR field generation, control, and measurement equipment listed below. This system is intended to be used in applications requiring high field strength, such as Mil Std 464, where cable losses need to be minimized and the equipment may be exposed to the high fields.

Please refer to individual product specification sheets for details.

The EMI shielded equipment racks provide greater than 40dB of isolation. Input power will be filtered and distributed internally. A fiber-optically isolated Ethernet interface is provided for automated control. RF connections will be through bulkhead connectors located in the top of the racks. The frequency matched and dedicated antenna will be mounted and cabled to the antenna mast and be user and remotely adjustable for both height and polarization (horizontal and vertical).

The equipment racks and antenna mast will be mounted on a rolling skid creating a portable field generation platform. The side of the equipment rack facing the antennas will be covered in RF absorber to minimize reflection.

Model AS02000 Equipment list:

- Model 1700T1G2z5M13, 1-2.5GHz, 1700 Watts CW (Rack 2)
- Model PM2002, 2-channel Power Meter (Rack 1)
- 2 Model PH2000, Power Heads, 10kHz-8GHz (Rack 1)
- Model FM7004M1, Field Monitor (Rack 1)
- 2 Model FL7018/Kit, Isotropic E Field Probes, 3MHz-18GHz, 0.6-1000 V/m (Rack 1)
- 2 Model FP7050/kit, Isotropic E Field Probes, 300MHz-50GHz, 8-614 V/m, true RMS of pulse (Rack 1)
- Model SG6000, Signal Generator, 100kHz-6GHz, rear panel connectors (Rack 1)
- Model DC7128AM2 Dual Directional Coupler, 0.8-2.8GHz, 2500 Watts (Rack 2)
- Model ATH1G4M5, Horn Antenna, 1-4.2GHz, 2500 Watts
- Antenna Controller, Fiber Optically isolated, height and polarization control(Rack 1)
- Antenna Mast, 1-4meter height
- All internal and external Interconnect cables between system components (RF and control)
- 14 in (35.6 cm) rack space available for user installed equipment (Rack 1)
 - Blank panels installed

EMI/RFI Shielded, Rack Specifications:

	Rack 1	Rack 2
Size (W x H x D)	22.1 x 60 x 44.4 in (56 x 152.4 x 112.8 cm)	22.1 x 60 x 44.4 in (56 x 152.4 x 112.8 cm)
Total Weight	150 lbs (68.2 kg)	400 lbs (181.8 kg)
Power Input	120/208 VAC , 50/60Hz, 3phase, 60A (IEC 309 Pin & Sleeve Inlet)	

Rolling Skid Specifications:

Size (W x H x D)	48 x 14 x 96 in (121.9 x 35.6 x 243.8 cm)
Total Weight	800 lbs (363.6 kg)
Casters	7.5 in (19 cm) height, rubber, non-marking, shock absorbing

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