



**Model AS40009,
M1 through M3
AR System
18GHz-40GHz**

The AS40009 AR System has been specially designed to perform Radiated Immunity testing at up to 200V/m at a 1 meter test distance. The AR field generation equipment is housed in a ventilated, EMI shielded equipment rack.

Please refer to individual product specification sheets for details. Input power will be filtered and distributed internally. A fiber-optically isolated GPIB interface is also provided. RF connections will be through bulkhead connectors located on the side of the rack. The frequency matched and dedicated (1 per amplifier) antennas will be mounted and cabled to the side of the rack and be user adjustable for both horizontal and vertical polarization.

The SC1000M4 system controller allows manual and remote signal routing of RF signals both to and from the amplifiers, including feedback from the FWD power RF sampling ports.

The AS40009 equipment rack is supplied with a specially modified (fork liftable) base and material lift providing a portable field generation platform with a height adjustment (antenna centerline) of 0.6–5.0 meters. The side of the equipment rack facing the antennas will be covered in RF absorber to minimize reflection.

The AS40009M1 is provided without the signal generator. The AS40009M2 is provided without the signal generator and power meter. The AS40009M3 is provided without the signal generator, power meter, and system controller (RF switch matrix).

Model AS40009 Equipment list:	STD	M1	M2	M3
Model 40T18G26AM2, 18–26.5 GHz, 40 Watts CW	x	x	x	x
Model 40T26G40AM2, 26.5–40 GHz, 40 Watts CW	x	x	x	x
Model SC1000M4, System Controller, DC–40 GHz	x	x	x	
Model PM2003, 3-Channel Power Meter	x	x		
Model PH2010, Power Head, 30MHz–40GHz	x	x		
Signal Generator, 100 kHz–40 GHz, rear panel connectors	x			
Model ATH18G27, High Gain Horn Antenna, 18-26.5 GHz, 350 Watts	x	x	x	x
Model ATH26G40, High Gain Horn Antenna, 26.5–40 GHz, 240 Watts	x	x	x	x
Model AM4001, Antenna Mount, for use with ATH18G27 antenna	x	x	x	x
Model AM4002, Antenna Mount for use with ATH26G40 antenna	x	x	x	x
All internal Interconnect cables between system components	x	x	x	x
(1) 2.92mm “K” RF Bulkhead connector internally connected to the SC1000M4 switch 1 (signal generator input) port		x		
(2) 2.92mm “K” RF Bulkhead connectors internally connected to the SC1000M4 switch 1 (signal generator input) and SC1000M4 switch 5 (Forward power sense output) ports			x	
(4) 2.92mm “K” RF bulkhead connectors internally connected to RF IN and FWD power sense connections of the amplifiers				x
Material Lift, 230kg (500lb) capacity, 5 meter lift travel	x	x	x	x

EMI/RFI Shielded, Air Conditioned, Rack Specifications:
Rack **Lift**

Size (H x W x D)	40.82 x 22.06 x 36.40 in (103.68 x 56.03 x 92.46 cm)	78.5 x 31.5 x 29 in (collapsed) (199.39 x 80 x 73.66 cm)
Total Weight	230 lbs (104.5 kg)	360 lbs (163.6 kg)
Power Input	240 VAC, 50/60Hz, 1phase, 30A 120/208 VAC, 50/60Hz, 3phase, 30A	

MODEL AS40009

