

**Model AS40000**  
**AR System**  
**800MHz-40GHz**

The AS40000 AR System has been specially designed to house, in two, air-conditioned, EMI shielded equipment racks, the AR Worldwide equipment listed below. 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 in the top of the racks. The frequency matched and dedicated (1 per amplifier) antennas will be mounted and cabled to the antenna mast and be user adjustable for both horizontal and vertical polarization.

The SC1000M3, SC1000M4 system controllers allow manual and remote signal routing of RF signals both to and from up to seven amplifiers, including feedback from dual directional couplers.

The equipment racks and antenna mast will be mounted on a rolling skid creating a portable field generation platform with a minimum of 60ft of control cable for maneuverability. The side of the equipment rack facing the antennas will be covered in RF absorber to minimize reflection.

**Model AS40000 Equipment list:**

- Model 240S1G3M1, .8 – 3 GHz, 240 watts CW (Rack 2)
- Model 200T2G8AM2, 2.5 – 7.5 GHz, 200 watts CW (Rack 1)
- Model 200T8G18AM2, 7.5 -18 GHz, 200 watts CW (Rack 2)
- Model 40T18G26AM2, 18-26 GHz, 40W CW (Rack 2)
- Model 40T26G40AM2, 26-40 GHz, 40W CW (Rack 2)
- Model SC1000M4, System Controller, DC – 40 GHz (Rack 1)
- Model SC1000M3, System Controller, DC – 18 GHz (Rack 1)
- Model FM7004, Field Monitor (Rack 1)
- Model DC7144A Dual Directional Coupler, 0.8-4.2 GHz, 400 Watt (Rack 2)
- Model DC7280A Dual Directional Coupler, 2-8 GHz, 350 Watt (Rack 1)
- Model DC7450M1 Dual Directional Coupler, 7.5-18 GHz, 3000 Watt (Rack 2)
- Model DC7530 Dual Directional Coupler, 18-26.5 GHz, 300 Watt (Rack 2)
- Model DC7620 Dual Directional Coupler, 26.5-40GHz, 200 Watt (Rack 2)
- Model AT4510 High Gain Horn Antenna, 1-4.2 GHz, 1500 Watts
- Model AT4520 High Gain Horn Antenna, 2.5-7.5 GHz, 1400 Watts
- Model AT4530 High Gain Horn Antenna, 7.5-18 GHz, 1400 Watts
- Model AT4540 High Gain Horn Antenna, 18-26.5 GHz, 350 Watts
- Model AT4550 High Gain Horn Antenna, 26.5-40 GHz, 240 Watts
- All internal Interconnect cables between system components
- 28 in (71.1 cm) rack space available for user installed equipment (Rack 1)
- Emco Model 2090 Antenna Controller
- Emco Model 2070 Antenna Tower

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

	<b>Rack 1</b>	<b>Rack 2</b>
Size (H x W x D)	67.08 x22.06 x 36.40 in (170.38 x 56.03 x 92.46 cm)	67.08 x22.06 x 36.40 in (170.38 x 56.03 x 92.46 cm)
Total Weight	340 lbs (154.5 kg)	1031 lbs (468.6 kg)
Power Input	120/208 VAC , 50/60Hz, 3phase, 60A	

*NOTE: Amplifiers can be disconnected from the system controllers (SC1000M3, SC1000M4) and used independently and simultaneously.*

# MODEL AS40000

