



**Model AS01012, M1  
AR System  
100kHz–1GHz**

The AS01012 & AS01012M1 AR Systems have been specially designed to perform Mil Std radiated immunity testing up to 100V/m @ 1 meter test distance\*. The systems consist of the AR RF/Microwave Instrumentation equipment listed below. Please refer to individual product specification sheets for details. See the back of this sheet for component layout.

For testing below 1GHz, the amplifiers and control equipment are to be kept outside the chamber and the RF energy is passed to the field generation equipment within the chamber through coaxial cable. The free-standing amplifiers are housed in their own racks, while the signal generation and control equipment are housed in a separate rack cabinet of desktop configuration. This configuration provides a convenient tabletop location for the control PC, monitor, keyboard, mouse, and printer. The M1 version of this system replaces the control room desk with a 30U (52.5 in. panel height) rack cabinet. All internal RF and control (GPIB) cabling and AC power distribution is included.

\* <100V/m @ 1 meter test distance from 10kHz–100MHz with the AT3100

Model AS01012 & AS01012M1 Equipment list:

- Model 500A100AM3, RF Amplifier, 10kHz–100MHz, 500 Watts
- Model 500W1000A, RF Amplifier, 80MHz–1GHz, 500 Watts CW
- Model DC2600A, Dual Directional Coupler, 10kHz–250MHz, 600 Watts, 50dB
- Model DC6180A, Dual Directional Coupler, 80MHz–1GHz, 600 Watts, 60dB
- Model AT3100, E-Field Generator, 10kHz–100MHz
- Model AT6080A, Log-periodic Antenna, 80MHz–6GHz
- (2) Model TP1000B, Non-metallic Tripod
- (2) Model UG30 D/U, Connector, coaxial, adapter, bulkhead, jack-jack, type N (F)
- (2) Model CC3111030, Coaxial Cable, DC–8GHz, 4.5kW, N male, N male, 3 meters long
- (2) Model CC3111080, Coaxial Cable, DC–8GHz, 4.5kW, N male, N male, 8 meters long
- Model SC1000M1, System Controller, DC–18GHz
- Model SG6000, Signal Generator, 100kHz–6GHz
- Model PM2002, Power Meter, 2 channel
- (2) Model PH2000, Power Head, 10kHz–8GHz, -60 - +20dBm
- Model FM7004M1, Field Monitor
- Model FL7030/Kit M1, Isotropic "E" Field probe kit, 5kHz–30MHz, 1.5 – 300V/m
- Model FL7006/Kit M1, Isotropic "E" Field probe kit, 100kHz–6GHz, .5 – 300V/m
- Model SW1006, Radiated Susceptibility, Conducted Immunity, and Emissions Test Software (Includes GPIB and DAQ hardware)
- Desktop PC, preloaded with SW1006 software
- Color laser printer

**AS01012**

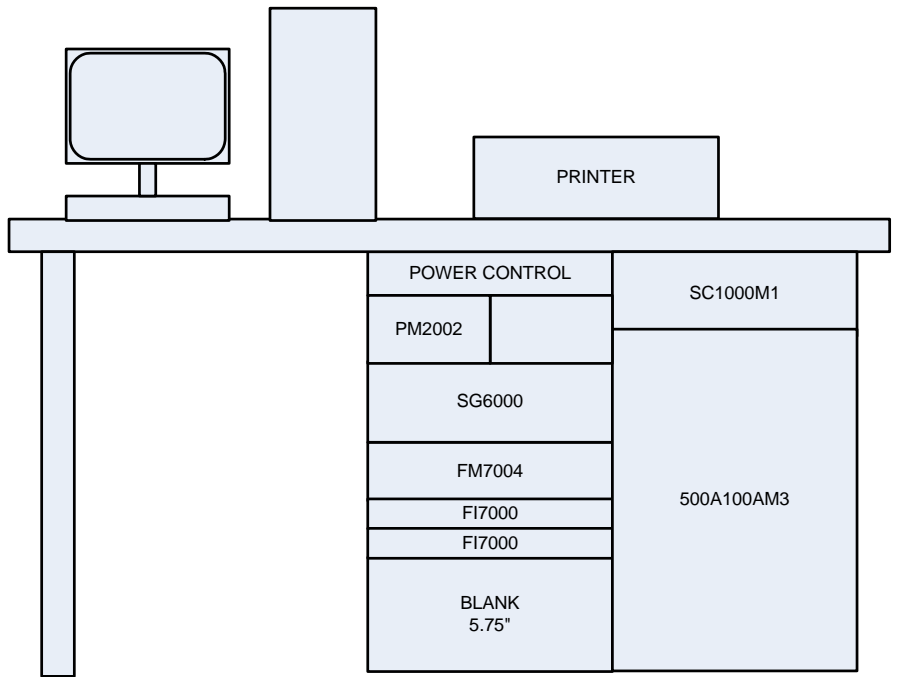
**Control Room Desk Specifications:**

Size (H x W x D)

75.5 x 182.9 x 82.3 cm

(29.74 x 72.0 x 32.4 in)

Weight: 91 kg (200 lbs)



**AS01012M1**

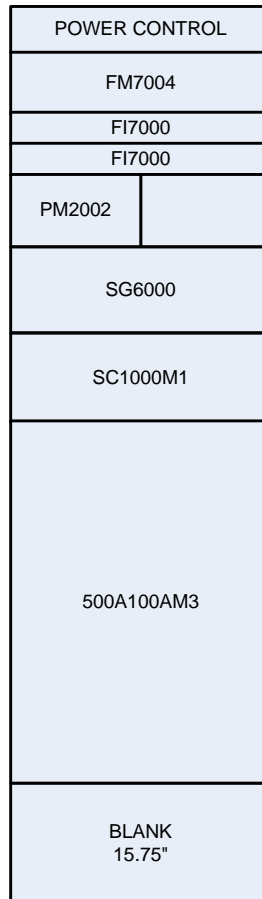
**Control Room Rack Specifications:**

Size (H x W x D)

150 x 55.6 x 82.3 cm

(59 x 22 x 32.4 in)

Weight: 91 kg (200 lbs)





**Model AS01012-UG-4  
AS01012 Upgrade**

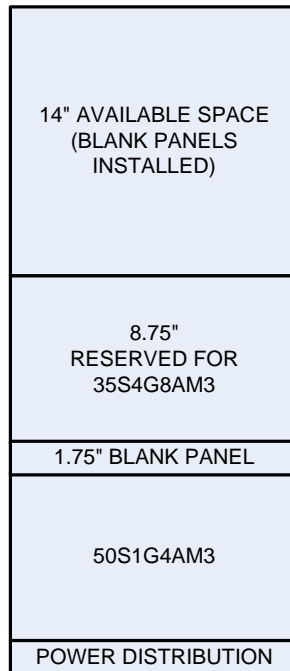
The AS01012-UG-4 upgrade has been designed to extend the frequency range of the AS01012 or AS01012M1 to 4.2 GHz. The AR RF/Microwave Instrumentation listed below is housed in a 35 inch panel height (20U) equipment rack. Please refer to individual product specification sheets for details.

Model AS01012-UG-4 equipment list:

- Model 50S1G4AM3 solid state amplifier
- DC7411A Directional Coupler
- AC power distribution within the rack terminating in a single input plug
- Interconnecting cables to interface with the AS01012 or AS01012M1 system
- 22.75" empty rack space
  - 8.75" reserved for 35S4G8AM4 (mounting rails installed)
  - 14.0 available for user-installed equipment (blank panels installed)

**Rack Specifications:**

Size .....56.1 x 106.7 x 67.3 cm (22.1 x 42.0 26.5 in)  
 Total Weight.....54.5 kg (120 lbs)





**Model AS01012-UG-6  
AS01012 Upgrade**

The AS01012-UG-6 upgrade, when used with the AS01012-UG-4 upgrade, will extend the frequency range of the AS01012 or AS01012M1 to 6 GHz. The upgrade includes the AR RF/Microwave Instrumentation listed below. Please refer to individual product specification sheets for details.

Model AS01012-UG-6 equipment list:

- Model 35S4G8AM4 solid state amplifier
- DC7350A Directional Coupler
- Interconnecting cables to interface with the AS01012 or AS01012M1 system