



**Model AS01008  
AR System  
10 kHz–1 GHz**

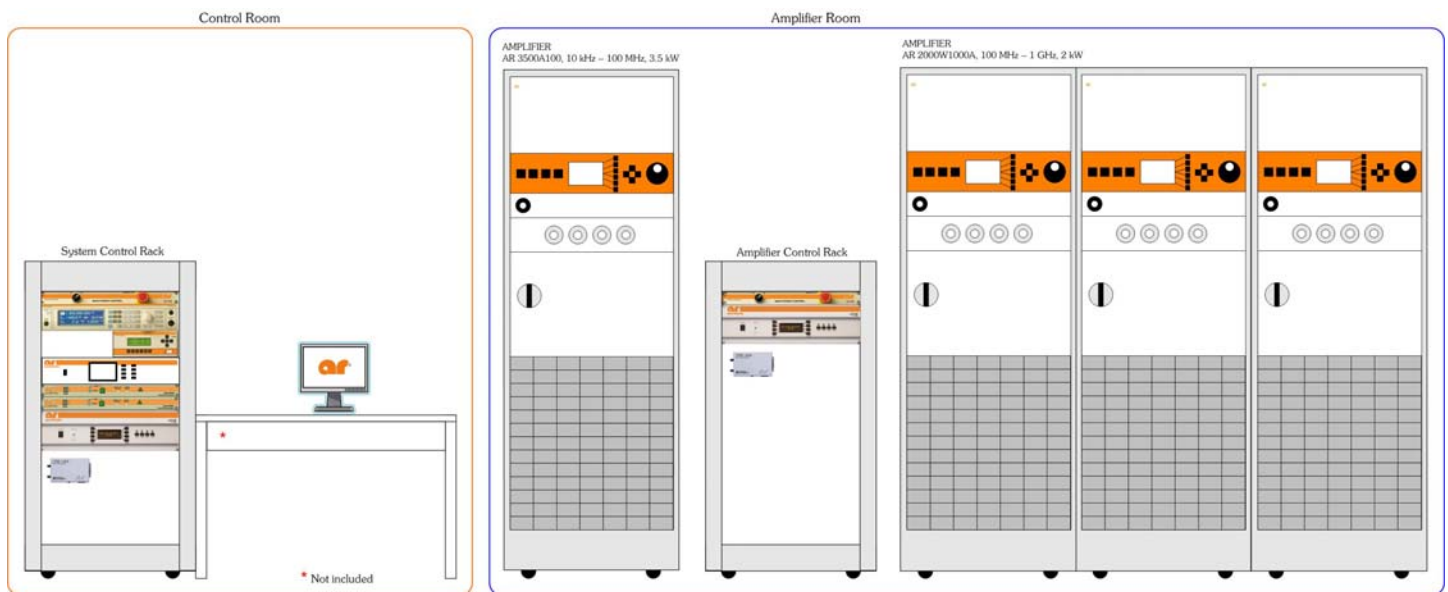
The AS01008 AR System has been specially designed to perform radiated immunity testing up to 200V/m\* @ 1 meter test distance from 10 kHz to 1 GHz. Broadband transmission line (AT5000M3) should be located closer to EUT to achieve 200 V/m from 10 kHz to 100 MHz. The system consists of the AR RF/Microwave Instrumentation equipment listed in the next page. Please refer to individual product specification sheets for details.

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 amplifiers are housed in their own racks, while the system control rack and the amplifier control rack are housed in 19" 20U racks. All internal RF and control (GPIB) cabling and AC power distribution is included.

The AS01008 uses AR 3500A100A (3.5 kW) from 10 kHz to 100 MHz and AR 2000W1000A (2 kW) from 100 MHz to 1 GHz. Please refer to system drawings for details.

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

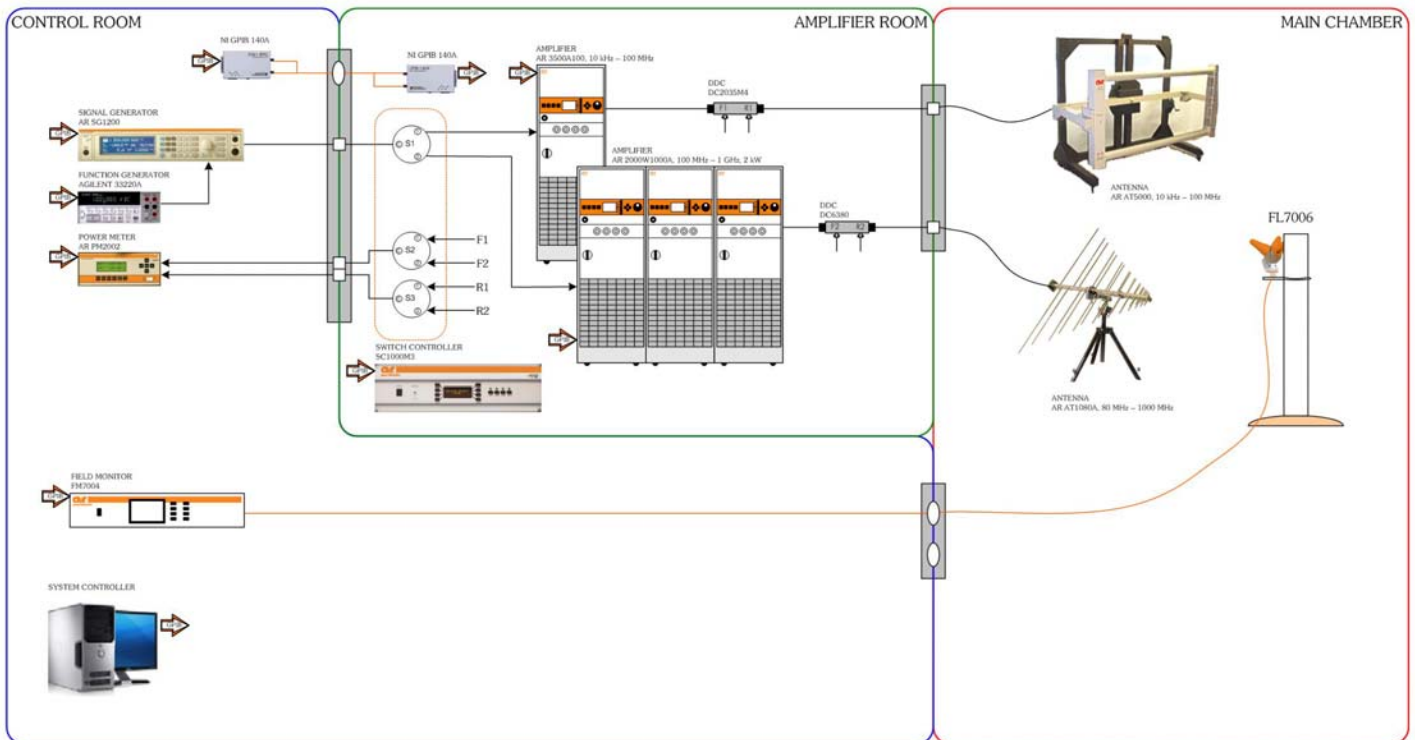
\*Typical



**SYSTEM CONTROL RACK, AMPLIFIERS AND AMPLIFIER CONTROL RACK**

**Model AS01008 Equipment List:**

Item	Description
1	Signal Generator <ul style="list-style-type: none"> <li>• SG1200, 9 kHz to 1.2 GHz</li> <li>• Agilent 33220A, 1 <math>\mu</math>Hz to 20 MHz</li> </ul>
2	Amplifiers, RF Cables <ul style="list-style-type: none"> <li>• 3500A100A, 10 kHz to 100 MHz, 3.5 kW, 7/16</li> <li>• 2000W1000A, 80 MHz to 1 GHz, 2000 Watts, 1-5/8 EIA</li> <li>• High Power RF Cables for 3500A100A and 2000W1000A</li> </ul>
3	Antennas <ul style="list-style-type: none"> <li>• AT5000M3, Broadband Transmission Line, 10 kHz to 100 MHz, 3 kW</li> <li>• AT1080A, Broadband Log Periodic Antenna, 80 MHz to 1 GHz, 5 kW, 1-5/8 EIA</li> <li>• TP1000A, Tripod for AT1080A</li> </ul>
4	Power Monitoring System <ul style="list-style-type: none"> <li>• PM2002, 2 Channel Power Meter, 10 kHz to 40 GHz</li> <li>• PH2000 (2ea), Power Head, 10 kHz to 8 GHz</li> <li>• DC2035M4, Dual Directional Coupler, 10 kHz to 250 MHz, 3500 Watts</li> <li>• DC6380, Dual Directional Coupler, 80 MHz to 1 GHz, 2000 Watts</li> </ul>
5	Field Monitoring System <ul style="list-style-type: none"> <li>• MP06000, 100 kHz to 6 GHz with FM7004, FL7006 (1ea), FI7000 (1ea)</li> <li>• FL7006/Kit (1ea), E-Field Laser Powered Laser Probe Kit, 100 kHz to 6 GHz, PS2000 (2ea)</li> </ul>
6	System Controller, AR SC1000M3, DC to 18 GHz, Monitoring Fwd/Rev Power
7	System Software <ul style="list-style-type: none"> <li>• SW1006, Comprehensive EMC Test Software</li> </ul>
8	System Controller <ul style="list-style-type: none"> <li>• Compaq Windows XP Pro, MS Office 2007 Pro, Norton AV 2008</li> <li>• GPIB Card</li> <li>• Samsung 19" LCD, HP Color Laser</li> </ul>
9	System Accessories <ul style="list-style-type: none"> <li>• 19" 20U System Control Racks (2 ea) (Control Room and Amplifier Room)</li> <li>• National Instrument Fiberoptic GPIB Extender, GPIB-140A (2ea)</li> <li>• Bird 8892-320, 5 kW, Oil-Cooled, 230 Vac, 1-5/8 EIA</li> <li>• RF Cables, Bulkheads, Adapters(1 set)</li> <li>• Fiberoptic Cables, Bulkheads (1 set)</li> <li>• GPIB Cables (1 set)</li> </ul>



**AS01008 SYSTEM BLOCK DIAGRAM**