

AMS Software

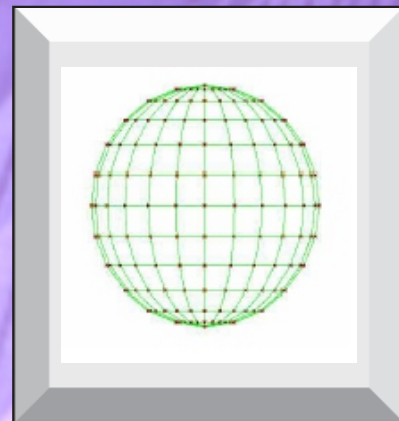


AMS Version 4.0

Modular Designed Software linked with TCP/IP
ActiveX™ Graphing 2-D and 3-D Capability
Testing Sequences controlled through Script Language
Antenna Patterns in Polar, Rectangular, 3-D
Stand alone Equipment Drivers linked with TCP/IP
Data management with ActiveX link to Microsoft Excel™
Report management with ActiveX Microsoft Word™
Upgrades for 2 years

Recommended System Requirements

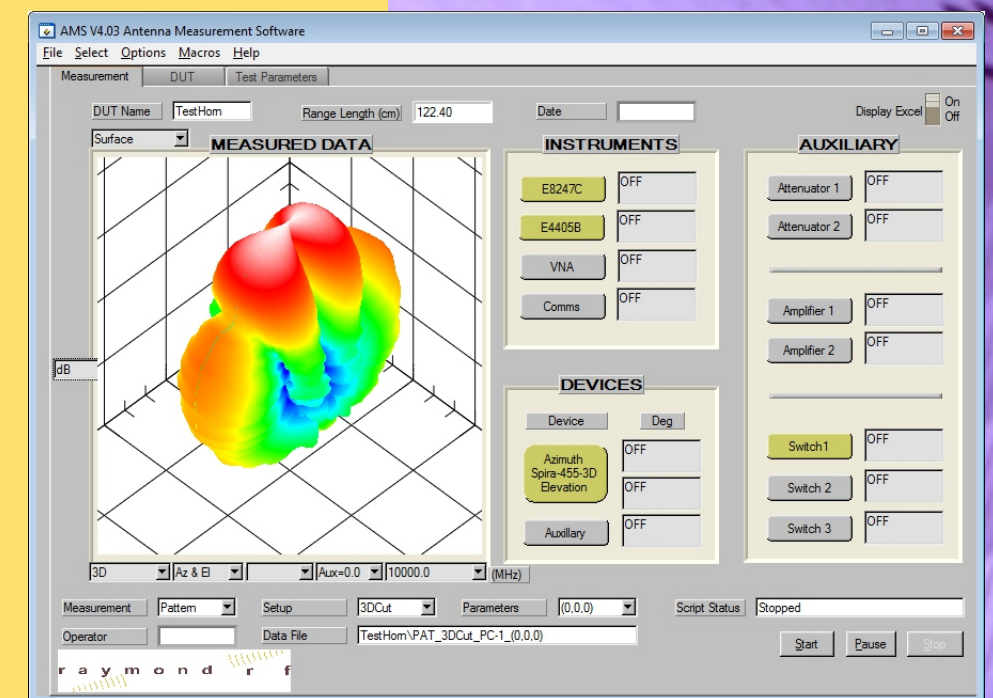
Microsoft Windows XP, Vista, 7, 8
2 GB RAM
5 GB free hard drive space
National Instruments GPIB card (Note: USB-A is not supported)
Microsoft ActiveX, Excel, Word, XP and Vista are trademarks of Microsoft Corp.



3994 Elphin Maberly Rd
PO Box 23072, Ottawa,
Ontario Canada K2A 4E2

AMS Software

As an industry leader,
We are committed to
providing innovative solutions
of the
highest quality



www.raymondndrf.ca

613-454-5707 Ottawa, Ontario

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Antenna Measurement Software

Antenna Measurement Software (AMS) performs 2-D (polar/rectangular) and 3-D (spherical) antenna pattern measurements for passive antennas and active wireless mobile stations (cell phones). Insertion loss of passive devices is included as part of the calibration component. Data management and reporting of antenna properties such as half power beam-width, directivity, gain, radiation efficiency, total radiated power, and total isotropic sensitivity. AMS performs all measurements required by the CTIA Over-the-Air Performance Test Plan.

Insertion Loss / Gain measurements can be made on cables, preamps and attenuators as part of the calibration process.

System Features

Data Management

AMS links to Microsoft Excel through ActiveX. Custom spreadsheets can be developed and linked to the AMS data window. Standard spreadsheets are included and custom data analysis is very flexible.

Report Generation

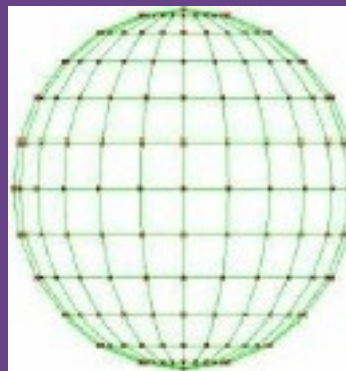
AMS links to Microsoft Word through ActiveX. Custom reports can be developed and linked to the AMS report window. Standard report templates are included and custom report generation is very flexible.

RF Test Equipment

AMS controls popular Vector Network Analyzers, Spectrum Analyzers, Power Meters, Receivers, Signal Generators, Base Station Simulators, Remote Attenuators and RF switches. Control can be accomplished through Ethernet, GPIB, or RS232. Drivers are supplied with Raymond RF Single Axis SD-455, and Dual Axis SD-455-3D Positioners and custom drivers can be created for non Raymond RF Antenna Positioners. Compatible with National Instruments GPIB, Ethernet and RS232 (USB-A not supported).

Test Equipment Setups

Transmit and Receive equipment setups are easily set up and modified on a familiar hierarchy tree. Multiple Setups for each type of test can be saved for easy retrieval.



Measurement

Once the DUT is in place and the appropriate information is entered, all Measurement Parameters are selected from the main Measurement Tab, and the measurement is run. The script file is run and measured (raw) data is stored to a text file and measured results are plotted in real time. Feedback from each device is also displayed in real time. Flexible design allows all Test Equipment and Positioners to optionally be controlled manually. Comes with standard Test Script and custom Test Script are available.

Polar (Azimuth) Patterns: Single and Dual Polarization Tests, Scalar, Vector, Sensitivity
Polar (Elevation) Patterns: Single and Dual Polarization Tests, Scalar, Vector, Sensitivity
Spherical Patterns: Single and Dual Polarization Tests, Scalar, Vector, Sensitivity
Insertion Loss / Gain testing of passive and active devices

Graphing

Advanced ActiveX graphing capabilities allow acquired data to be displayed in a variety of 2-D and 3-D formats. Data is linked to Excel through ActiveX, so it can be reviewed on the AMS Data tab or directly with Excel. Data can be manipulated in Excel and linked back to the AMS Measurement software. This feature allows users to develop their own data correlation / manipulation algorithms.