

Model VM7000 Virtual Field Monitor

The AR RF/Microwave Instrumentation Model VM7000 (Virtual Field Monitor) is a software utility which runs under Windows XP, Windows Vista and Windows 7 operating systems. It simultaneously controls and operates any combination of FL7000, PL7000, FP7000 or FH7000 series probes. The VM7000 provides a graphical user interface that allows effortless control of all probe functions, while clearly displaying probe data and status. The VM7000 can control up to sixteen probes through available RS-232, GPIB, or USB ports, using one port per probe.

The VM7000 interfaces with FP7000 and FH7000 series field probes through a Model IF7000 fiber optic to RS-232 Interface, or Model IF7001 fiber optic to USB Interface. Interfacing with FL7000 and PL7000 series field probes is accomplished using RS-232, GPIB or USB ports which are available from the FI7000.

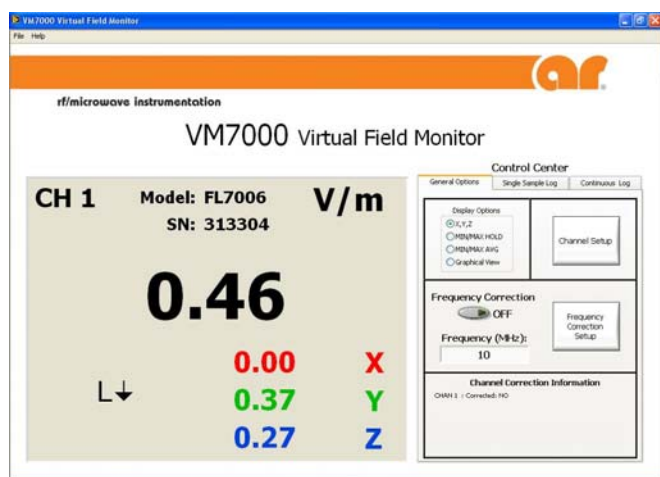
The VM7000 has the ability to correct probe readings at a user defined frequency, using a table of frequency response correction factors linked to a probe by serial number. One table of correction factors can contain up to 30 different frequency points.

The VM7000 has several probe status indicators. One indicator displays when a probe is outside of its specified amplitude range. A second indicator displays when a probe is being used beyond the minimum or maximum frequencies of its corresponding correction factor table. A third indicator displays the battery status of any FP7000 or FH7000 series probe.

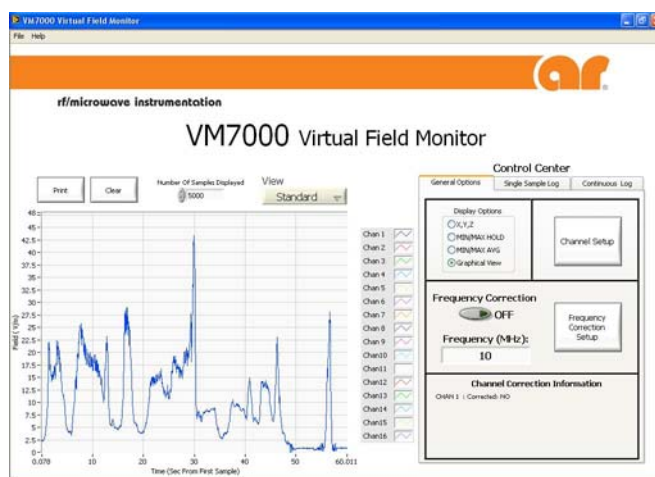
Field strength data may be displayed in four ways: XYZ, Min/Max Avg, Min/Max Hold and Graphical. The XYZ display mode shows the X, Y, Z and composite readings of all enabled probes. The Min/Max Avg display mode shows the minimum, maximum and average composite value from the current sample of all enabled probes. The Min/Max Hold display mode shows the minimum and maximum composite values of all the enabled probes. The Graphical display mode shows the composite values of all enabled probes plotted with respect to time.

The VM7000 has two different data logging features:

- Single Sample Data Log: The composite values of all enabled probes are recorded to a single file at a user defined moment. Frequency Step Controls allow the user to make adjustments to frequency settings between samples.
- Continuous Data Log: Time-stamped samples are recorded in a single tab-delimited text file for each enabled probe.



XYZ Display Mode



Graphical Display Mode

SPECIFICATIONS

OPERATING ENVIRONMENTS

- Windows XP
- Windows Vista
- Windows 7

PC HARDWARE REQUIREMENTS

- 2 GHz single core processor
- 1GB RAM
- 1024 x 768 minimum screen resolution
- Available RS-232, GPIB, or USB Communications Port(s) (one per probe)

PROBES SUPPORTED

- Model FL7000 Series Field Probes (with FI7000)
- Model PL7000 Series Field Probes (with FI7000)
- Model FP7000, or FH7000 Series Field Probe with one of the following:
 - Model IF7000 RS-232 to Fiber Optic Interface (not included in probe kits)
 - Model IF7001 USB to Fiber Optic Interface (not included in probe kits)

CHANNEL CONFIGURATION

- Controls and displays up to 16 enabled channels, in any combination of "E" field or "H" field 7000 series probes, with any combination of sample rates and enabled axes.

CORRECTION FACTOR TABLES

- An unlimited number of tables may be stored (one per probe)
 - 30 frequency points per table

SINGLE SAMPLE DATA LOGGING

- Data samples from up to 16 channels can be saved to a single tab-delimited text file, readable by most spreadsheet applications
- Frequency Step control makes for easy adjustment of frequency settings between samples

CONTINUOUS DATA LOGGING

- Time-stamped data is saved in a tab-delimited ASCII text file format readable by most spreadsheet applications (one file per enabled probe)