

MI-3623 Far-Field System - Dual-Axis / Vector Network Analyzer

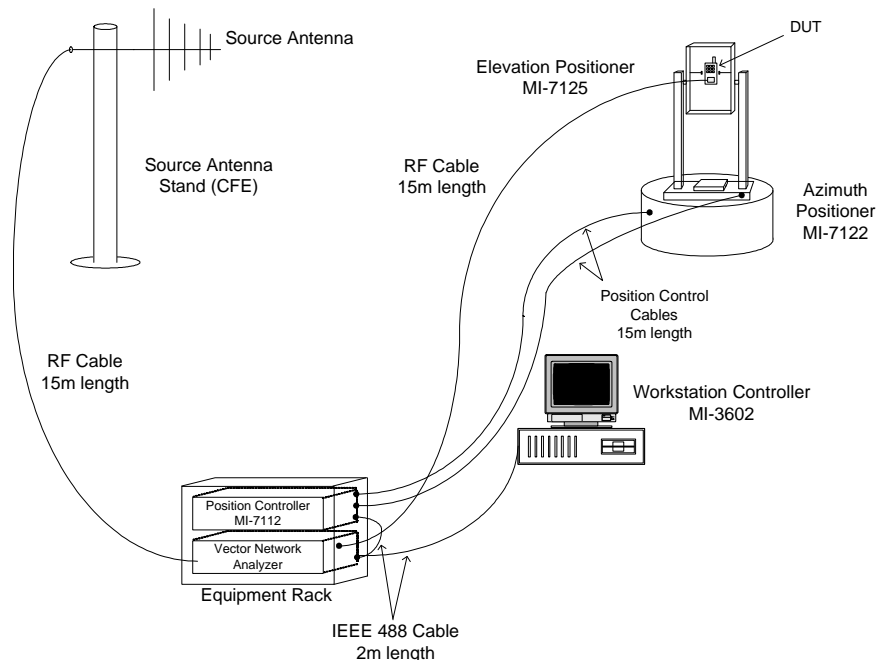
Key Features & Benefits

500 MHz to 3.0 GHz

- Rapid, accurate, continuous measurements using a network analyzer over the 500 MHz to 3.0 GHz frequency band provide increased flexibility and frequency control.
- Automated pattern measurements offer maximum flexibility and control with an advanced yet economical dual-axis DUT positioner.
- Extensive analysis software is built-in to simplify pattern evaluation.
- Network connection provides means to easily download data for offline analysis.
- Network analyzer provides superior broadband measurements with high dynamic range and increased frequency resolution.
- Pattern plotting in polar or rectangular format for single or multiple patterns offers the ultimate in flexible data presentation.
- Dielectric elevation positioner produces low perturbations to the measurements.

Description

The MI-3623 is a high-end, dual-axis far-field measurement system in the MI-3600 family designed for the Wireless market. Assembled to meet the needs of the most demanding test and measurement environments, the MI-3623 is a complete instrumentation system consisting of a workstation computer and software, dual-axis positioner with combined azimuth and elevation control for rotating the Device-Under-Test (DUT), position controller, vector network analyzer, and broadband linearly polarized log periodic source antenna. The distinguishing elements of the MI-3623 are the vector network analyzer, which combines a broadband receiver with a broadband transmitter with coverage to 3.0 GHz, and the dual-axis DUT positioner. The system provides superior ease of use that includes setup, test parameter provisioning, data acquisition, and data analysis. Using the workstation controller, an operator can select the transmit frequencies of operation and record the received signal from the broadband, highly accurate vector network analyzer. Various options include standard gain antennas for calibration, masts for source antenna and DUT positioner, longer signal and control cables and absorber.



MI-3623 Specifications:

System Workstation:

- MI-3602 software and computer with monitor, keyboard, mouse, color printer, ethernet card, IEEE card
- Antenna measurement, analysis, and plotting software
 - ▲ Automatic calculation of beam width, beam peak, location and depth of nulls, location and level of side-lobes, and gain
 - ▲ Polar or rectangular format plots

Receiver and Signal Source:

- Network Analyzer
- Frequency resolution: 1 Hz
- System dynamic range: 100 dB
- Input impedance: 50 ohms
- Source power: 10 dBm max

Positioner:

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| <ul style="list-style-type: none"> ➤ MI-7122 Azimuth Positioner <ul style="list-style-type: none"> ▲ Diameter: 0.8 meter (31.5 inches) ▲ Vertical load handling: 75 kg (165 lbs) ▲ Speed: 0.3 to 3 rpm ▲ Rotation: ± 200 degrees ▲ Angular accuracy: 0.5 degrees | <ul style="list-style-type: none"> ➤ MI-7125 Elevation Positioner <ul style="list-style-type: none"> ▲ Total height: 1.8 meters (71 inches) ▲ Max. load: 10 kg (22 lbs) ▲ Material: PVC, weatherproof ▲ Positioning accuracy: ± 1 degree ▲ Rotation angle: 360 degrees |
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Position Controller:

- MI-7112 provides up to four axes of control
- IEEE 488 based

Source Antenna:

- Linearly polarized, log periodic

Cables:

- Cables are provided to support equipment separation up to 15 meters.

Options:

- Standard gain antennas are available.
- Contact factory for alternate configurations.



Vector Network Analyzer