

# MI-3624 Far-Field System - Dual-Axis / Synthesizer Source

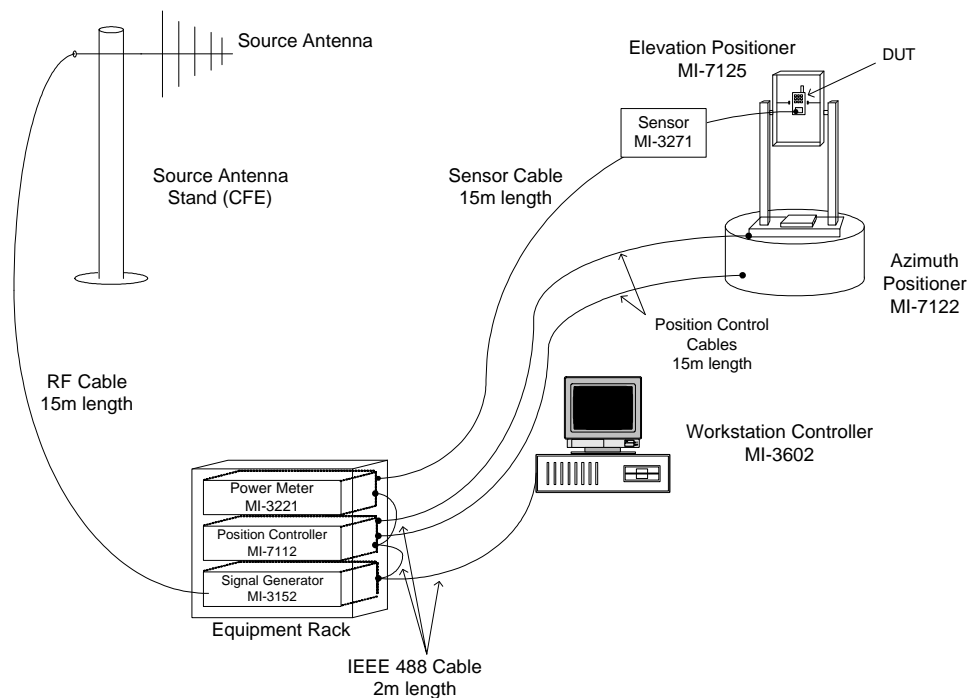
## Key Features & Benefits

**500 MHz to 2.1 GHz**

- Rapid, accurate, and continuous measurements using a synthesized source transmitter within 500 MHz to 2.1 GHz frequency range provide flexibility and wide coverage.
- Power meter presents the most economical receiver configuration.
- Extensive analysis software is built-in to simplify pattern evaluation.
- Network connection provides means to easily download data for offline analysis.
- Automated pattern measurements offer maximum flexibility and control with an advanced yet economical dual axis DUT positioner.
- Dielectric elevation positioner produces low perturbations to the measurements.
- Pattern plotting in polar or rectangular format for single or multiple patterns offers the ultimate in flexible data presentation.

## Description:

The MI-3624 is a mid-range, 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-3624 is a complete instrumentation system consisting of a workstation computer and software, dual-axis positioner with combined azimuth and elevation angle control for rotating the Device-Under-Test (DUT), position controller, receiver, transmitter, and broadband linearly polarized log periodic source antenna. The distinguishing elements of the MI-3624 are the power meter receiver, broadband synthesized source transmitter, and 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 operating frequencies from the synthesized source transmitter and record the received signal from the broadband, highly accurate power meter receiver. Various options include standard gain antennas for calibration, masts for source antenna and DUT positioner, longer signal and control cables and absorber.



## MI-3624 Specifications:

### System Controller:

- 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

### Signal Source:

- MI-3152 Signal Generator
- Power: 10 dBm max

### Receiver:

- MI-3221 Power Meter with Sensor
- Input Power: -70 to +30 dBm
  - \* RF filtering of the receiver may be required, depending on your application.

### Positioner:

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



**MI-3152 Signal Generator**