Network Master Series

MT9090A
Mainframe
MU909014A/A1/B/B1
MU909015B/B1
μOTDR Module™

1310 nm/1550 nm for Installation,
1625 nm & 1650 nm for Maintenance
Field Optical Testing Redefined!

MT9090A with MU909014x/15x Overview

There are many handheld OTDRs on the market that appear to be a good value until they are put into action and the user quickly finds out that they lack the performance needed to install and maintain today’s networks. The new MU909014x/15x µOTDR Module series for the MT9090A Network Master platform from Anritsu finally addresses this need by providing all of the features and performance required for installation and maintenance of optical fibers in a compact, modular test set. The MT9090A represents an unmatched level of value and ease of use, while not compromising performance. Data sampling of five centimeters, dead zones of less than one meter and dynamic range up to 37 dB ensure accurate and complete fiber evaluation of any network type – premise to access, metro to core…including PON-based FTTx networks featuring up to a 1 × 64 split. The MT9090A with MU909014x/15x module represents a new era in optical fiber testing!

Key Features

• High-end OTDR performance in a pocket-size package with unique battery operation
• Full AUTO mode simplifies operation, no OTDR knowledge needed
• Complete PON testing through splitters up to 1 × 64

µOTDR Module™ is a trademark of Anritsu Corporation.
A Truly Revolutionary OTDR!

Introducing the first handheld OTDR that does not compromise performance – the new µOTDR from Anritsu. With performance that rivals traditional OTDRs that are four times the size and more than double the price, the Network Master MT9090A µOTDR has created a new class of test instruments. It features 5 cm resolution for accurate mapping of events, dead zones of less than 1 meter (3 feet) and a dynamic range of up to 35 dB – enough to test over 150 km (90+ miles). The MT9090A µOTDR also takes portability to a new level by being the first handheld OTDR that truly fits in the palm of your hand.

Complete Testing Tool - Premise to Core

With a dynamic range of up to 37 dB, the µOTDR evolves far beyond the premise/access applications that other handheld OTDRs service. Metro links can be tested with lower pulsewidths which provides greater detail and better resolution while long haul fibers up to 175 km (108 miles) can also be completely evaluated.

FTTx and PON Ready

With splitter-based fiber-to-the-x (FTTx) deployments becoming more popular, the need for test equipment to thoroughly test and maintain them has risen. The µOTDR series features the ability to test up to a 1 × 64 split completely from end-to-end and with high resolution.

Full Auto Operation

To ensure easy operation and accurate results for all levels of users, the MT9090A µOTDR can be configured to automatically select all test parameters. The user simply presses the “Start” button and within a few seconds has a complete, easy to read summary of the fiber under test.

<1 m Dead Zone for Short Fiber Analysis

With less than 1 meter dead zones, the MT9090A is perfect for evaluating central office, FTTx and intra building cables.

Fast Real Time Sweeping

The MT9090A µOTDR features real-time updates as quickly as 0.25 seconds. This is useful for connector and splice optimizations as well as verifications of parameter selection.

Portable

The MT9090A µOTDR takes portability to a whole new level. With dimensions of just 19 cm × 9.6 cm × 4.8 cm (7.5” × 3.8” × 1.9”) and a weight of only 700 g (1.54 lbs.), the µOTDR is the smallest and lightest OTDR on the market. With its lightweight design and user friendly dimensions, the MT9090A is perfect for the outside plant environment and can easily be managed with one hand. The standard soft case with shoulder strap further increases portability when traveling from the truck to the testing site.

Rugged

With no fans or vents to allow dust and moisture to enter the unit, the MT9090A was designed for the challenging outside plant environment.

Modular Design

The MT9090A features a modular design allowing modules to be easily changed in the field. Users can interchange different OTDR modules or perform other optical network testing such as optical channel analysis with the available CWDM channel analyzer module or 10/100/1000 MB Ethernet testing on optical or electrical links. Operation is quite similar between modules so the user is immediately familiar with operation.

4.3-inch Wide Screen Display for Easy Viewing

The high resolution, full color, 4.3-inch wide screen display is the perfect format for viewing OTDR results. It also provides excellent readability both indoors and outdoors.

Integrated Launch Fiber

To further simplify testing, the MU909014x/15x series is the only handheld OTDR that features an integrated launch cable. A ten meter (30 feet) fiber is built-in so initial fiber connections can be verified without the need for additional patchcords or launch fibers.
Reliable. Capable.

When buying products, you tend to choose ones that are innovative and from established companies. When you need to install and maintain optical networks, this should also apply. With over 50 years of combined OTDR design, Anritsu, which now includes NetTest, delivers the features that matter. Having been in the test and measurement business for a long time, we understand the importance of performance, portability, reliability, easy operation and of course price.

Event Table with User Defined Thresholds
PASS/FAIL thresholds for key acceptance criteria such as splice loss, reflectance and total span loss can be set in the MT9090A allowing technicians to easily assess a fiber’s condition. Failing values are clearly highlighted in the event table alerting technicians of potential problems.

Unique Battery Operation
Since AC power is not always available where you need it, especially at fiber pedestals, the MT9090A typically provides 8 hours of testing on a single charge. This coupled with an optional car cigarette lighter cord guarantees the MT9090A is ready when you are. µOTDR supports widely available NiMH and Alkaline batteries for truly unique battery operation.

Quick Startup
The MT9090A is ready for measurement in under 15 seconds so productive work can start immediately.

Video Inspection Probe Support
When equipped with the optional connector video inspection probe (VIP), the µOTDR becomes a powerful tool for evaluating connector cleanliness and quality. Connector end faces can be safely viewed and images stored to document all aspects of your network.

Screen Capture Function
Screen shots are sometimes useful for adding to reports so the MT9090A features the ability to save screen shots as Bitmap images.

Visible Light Source
An optional visible laser diode “red light” to visually troubleshoot splices, connectors and the fiber management is also available.

Integrated Power Meter Function
As added value, an integrated power meter is available for measuring power levels at key wavelengths such as 1310, 1490, 1550, 1625 nm and 1650 nm with a single instrument.

Small on price, Not on features!

1. 4.3-inch high resolution, indoor/outdoor color display
2. Dedicated function keys for performing tasks
3. Start key for true one-button testing
4. Arrow keys for zooming, cursor movement and menu navigation
5. Set to select/accept
6. Menu key for easy access to set-ups and mass storage
7. Visible laser diode (option)
8. OTDR port (Integrated power meter)
9. Dual USB ports for quick and easy data transfer
Installation and Maintenance Simplified

Since the MT9090A is designed for technicians of any level, its hardware and user interface are optimized for simplicity. A customizable testing sequence and “Full Auto” mode automates testing and guides novice users. Specialized maintenance wavelengths are also available to eliminate equipment damage and transmission interruptions.

Installation Simplified

The MU909014x/15x µOTDR Module series provides easy and accurate verification of fiber installations at 1310 nm & 1550 nm to ensure your network is ready for any transmission type. The user simply connects the fiber, selects “Full Auto” and presses “Start” - all settings are automatically selected to ensure accurate and constant results for any skill level. Upon completion, all key fiber characteristics are displayed within seconds. Experienced users can also “fine tune” all testing parameters and make manual measurements.

Step 1 – Connect fiber and Power on
Step 2 – Select “Full Auto” and Press “Start”
All testing parameters are automatically selected.

Step 3 – Read Results
Test results including all splices and connectors, as well as total fiber length and loss are shown in an easy to read table.

Step 4 – View Trace
View trace if desired to see the complete fiber trace and make any manual measurements.

Maintenance Simplified

Being able to test active fibers is a key requirement for network maintenance since multiple users often share portions of the network and taking them all out of service is not an option. To address this need, special modules are available in the MT9090A µOTDR series. 1650 nm is recommended by the ITU-T L.41 for active maintenance since it features 100 nm of isolation from the nearest 1550 nm transmission wavelength. The 1650 nm OTDR also features an integrated filter to block transmissions from damaging the OTDR. 1625 nm is also available and can be used for in-service testing or as an “extra” test to verify installation for stresses such as macrobends.

Network Documentation Simplified

Simple Data Storage
With internal data storage plus support for external USB memory devices, the MT9090A is more than capable. Add to this auto file saving and naming for easy, error-free documenting of your network.

Common OTDR Data Format
The MT9090A supports the universal Telcordia SR-4731 format making it compatible with not only legacy Anritsu and NetTest products, but with many other vendors data.

Easy “Drag and Drop” File Transfers
When the MT9090A is connected to a PC via a USB cable, the internal memory can be directly accessed. Data can be selected, dragged and dropped into the PC memory, greatly simplifying file transfers. The MT9090A also supports the use of USB memory sticks.

Free and Simple Software Upgrades
Firmware upgrades are easily performed via USB and available from the Anritsu website for registered users or through Anritsu customer support.
Specifications

MT9090A Mainframe

<table>
<thead>
<tr>
<th>Dimensions and Mass</th>
<th>190 (W) × 96 (H) × 48 (D) mm (7.5 × 3.8 × 1.9) (including mainframe and module)</th>
<th>&lt;700 g (1.54 lbs.) (including mainframe, module and Standard battery)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>4.3-inch TFT Color LCD (480 × 272 pixels, transmissive)</td>
<td></td>
</tr>
<tr>
<td>Interface</td>
<td>USB 1.1, Type A × 1 (memory), Type B × 1 (USB mass storage)</td>
<td></td>
</tr>
</tbody>
</table>

MU909014A/A1/B/B1 and MU909015B/B1 µOTDR Module

<table>
<thead>
<tr>
<th>Model name</th>
<th>CENTER WAVELENGTH</th>
<th>CENTER WAVELENGTH</th>
<th>CENTER WAVELENGTH</th>
<th>CENTER WAVELENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1310/1550±20 nm</td>
<td>1310/1550±20 nm</td>
<td>1625±15 nm</td>
<td>1625±15 nm</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>PW = 20 μsec</td>
<td>PW = 20 μsec</td>
<td>PW = 500 ns</td>
<td>PW = 500 ns</td>
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<tr>
<td></td>
<td>37 dB/36 dB</td>
<td>32.5 dB/31 dB</td>
<td>24.5 dB/23 dB</td>
<td>24.5 dB/23 dB</td>
</tr>
<tr>
<td></td>
<td>PW = 500 ns</td>
<td>24.5 dB/23 dB</td>
<td>24.5 dB/23 dB</td>
<td>24.5 dB/23 dB</td>
</tr>
</tbody>
</table>

Fiber Type
10 μm/125 μm SMF (ITU-T G.652)

Optical Connector
UPC (-05x)/APC (-06x) are selectable, FC/SC/LC/ST/DIN adapters are changeable

Distance Range
0.5, 1, 2.5, 5, 10, 25, 50, 75, 125, 250 km

Pulse Width
5, 10, 20, 50, 100, 200, 500 ns, 1, 2, 5, 10, 20 μs

Dead Zone
Fresnel: <1 m, Backscatter: <5 m

Number of Sampling Points
<125,001 pts (Course: <6,251 pts, Medium: <25,001 pts, Fine: <125,001 pts)

Sampling Resolution
5 cm (min.)

Linearity
Which ever is greater ±0.05 dB/dB or ±0.1 dB

Distance Measurement Accuracy
±1 m ±3 × Measurement distance × 10⁻⁵ ± Marker resolution (excluding IOR uncertainty)

Sampling Resolution
5 cm (min.)

Laser Safety
EN61326-1, EN61000-3-2

EMC

Environment

Battery
9 V (dc), 100 V (ac) to 240 V (ac), Allowable Input voltage range: 90 V (ac) to 264 V (ac), 50 Hz/60 Hz

Power Supply
9 V (dc), 100 V (ac) to 240 V (ac), Allowable Input voltage range: 90 V (ac) to 264 V (ac), 50 Hz/60 Hz

Language
User Selectable (English, Simplified Chinese, Traditional Chinese, Korean, Japanese, French, German, Italian, Spanish, Polish, Portuguese, Danish, Swedish, Spanish (Latin America) and Russian)

Display
4.3-inch TFT Color LCD (480 × 272 pixels, transmissive)

Dynamic Range
1310/1550±20 nm

Loss Measurement Modes
2 point loss, Splice loss, dB/km Loss LSA, ORL, Event

Fiber Event Analysis
Automatic, Displayed in table format based on user defined PASS/FAIL thresholds

Testing Modes
Full automatic, Manual, Real time, Optical Power Meter, Visible Fault Locator (Option), Video Inspection Prove (Option)

Modulation
CW, 1 Hz

Output Power
0±3 dBm (CW, +25°C)

Wavelength
1310/1490/1550/1625/1650 nm

Optical Power Meter
Wavelength: 1310/1490/1550/1625/1650 nm

Vibration
MIL-T-28800E Class 3, Dust and Drip proof: IP51

Operating temperature and humidity
–5 to +40°C, <80 % (no condensation)

Storage temperature and humidity
–20 to +60°C, <80 %

Operating time (Standard battery): 8 hours (typ.)

Recharging time: <4 hours (typ.)

Vibrational:
VIBRATION: MIL-T-28800E Class 3, Dust and Drip proof: IP51

EMC

Laser Safety
IEC 61326-1, IEC 61000-3-2

Safety Measures for Laser Products

This option complies with optical safety standards in Class1, 1M, 3R of IEC 68025-1; the following descriptive labels are affixed to the product.

1: At +25°C
2: Typical value, ±25 nm is Guaranteed
3: Typical value, Distance range: 125 km, Averaging: 180 sec, SNR = 1, +25°C.

4: Dynamic range (one-way back-scattered light)
SNR=1: The level difference between the RMS noise level and the level where near end back-scattering occurs.

5: In service Signal is –20 dBm (CW) at 1310 nm/1550 nm

6: Return Loss 45 dB, +25°C

Fresnel: PW = 5 ns, 1.5 dB down from the peak of Fresnel
Backscatter: PW = 5 ns, Deviation ±0.5 dB

7: Either medium and fine density value is selected depends on distance range
8: Distance range: 25 km, Pulse width: 2 μs, 20 km open the fiber-end.
9: All specifications are guaranteed by standard battery.

10: Back light low, Sweeping halted, +25°C
11: Typical, +10 to +30°C, Power off
12: Safety measures for laser products

Some Alkaline dry battery is heated.

10: Back light low, Sweeping halted, +25°C
11: Typical, +10 to +30°C, Power off
12: Safety measures for laser products

This option complies with optical safety standards in Class1, 1M, 3R of IEC 68025-1; the following descriptive labels are affixed to the product.

IEC 61326-1; the following descriptive labels are affixed to the product.

10: Back light low, Sweeping halted, +25°C
11: Typical, +10 to +30°C, Power off
12: Safety measures for laser products

Some Alkaline dry battery is heated.

10: Back light low, Sweeping halted, +25°C
11: Typical, +10 to +30°C, Power off
12: Safety measures for laser products

This option complies with optical safety standards in Class1, 1M, 3R of IEC 68025-1; the following descriptive labels are affixed to the product.
## Ordering information

Please specify the model/order number, name and quantity when ordering. The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

### 1) Select Mainframe

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9090A</td>
<td>Mainframe (with color LCD)</td>
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</tbody>
</table>

### 2) Select Base Module

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU909014A</td>
<td>µOTDR Module (Single wavelength, 30 dB class OTDR)</td>
</tr>
<tr>
<td>MU909014A1</td>
<td>µOTDR Module (Single wavelength, 30 dB class OTDR with VLD)</td>
</tr>
<tr>
<td>MU909014B</td>
<td>µOTDR Module (2 wavelength, 30 dB class OTDR)</td>
</tr>
<tr>
<td>MU909014B1</td>
<td>µOTDR Module (2 wavelength, 30 dB class OTDR with VLD)</td>
</tr>
<tr>
<td>MU909015B</td>
<td>µOTDR Module (2 wavelength, 35 dB class OTDR)</td>
</tr>
<tr>
<td>MU909015B1</td>
<td>µOTDR Module (2 wavelength, 35 dB class OTDR with VLD)</td>
</tr>
</tbody>
</table>

### 3) Select Module, Connector Interface and Testing Options

Includes operation manual, quick reference guide, battery pack, AC charger/adapter, standard soft case and strap.

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU909014A-053</td>
<td>1625 nm, 32.5 dB, UPC</td>
</tr>
<tr>
<td>MU909014A-054</td>
<td>1650 nm, 32.5 dB, UPC</td>
</tr>
<tr>
<td>MU909014A1-053</td>
<td>1625 nm, 32.5 dB, APC, VLD</td>
</tr>
<tr>
<td>MU909014A1-054</td>
<td>1650 nm, 32.5 dB, APC, VLD</td>
</tr>
<tr>
<td>MU909014B-056</td>
<td>1310/1550 nm, 32.5/31 dB, UPC</td>
</tr>
<tr>
<td>MU909014B-066</td>
<td>1310/1550 nm, 32.5/31 dB, APC</td>
</tr>
</tbody>
</table>

General Purpose Models

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU909014B-056</td>
<td>1310/1550 nm, 32.5/31 dB, UPC</td>
</tr>
<tr>
<td>MU909014B-066</td>
<td>1310/1550 nm, 32.5/31 dB, APC</td>
</tr>
<tr>
<td>MU909014B1-056</td>
<td>1310/1550 nm, 32.5/31 dB, UPC, VLD</td>
</tr>
<tr>
<td>MU909014B1-066</td>
<td>1310/1550 nm, 32.5/31 dB, APC, VLD</td>
</tr>
</tbody>
</table>

### 4) Select Connector Adapter

One adapter included at no charge – must be added as a separate line item.

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU909014A/B-037</td>
<td>FC (UPC: Models -053, 054 and -056 only)</td>
</tr>
<tr>
<td>MU909014A/B-038</td>
<td>ST (UPC: Models -053, 054 and -056 only)</td>
</tr>
<tr>
<td>MU909014A/B-039</td>
<td>DIN (UPC: Models -053, 054 and -056 only)</td>
</tr>
<tr>
<td>MU909014A/B-040</td>
<td>SC (UPC: Models -053, 054 and -056 only)</td>
</tr>
<tr>
<td>MU909014A/B-025</td>
<td>FC-APC (APC: Models -063, 064 and -066 only)</td>
</tr>
<tr>
<td>MU909014A/B-026</td>
<td>SC-APC (APC: Models -063, 064 and -066 only)</td>
</tr>
</tbody>
</table>

### 5) Select Accessories

Must be added as separate line items.

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G0203A</td>
<td>Replacement AC Adaptor</td>
</tr>
<tr>
<td>G0202A</td>
<td>Replacement NiMH battery pack</td>
</tr>
<tr>
<td>B0602A</td>
<td>Deluxe soft case for MT9090A</td>
</tr>
<tr>
<td>B0601A</td>
<td>Replacement carry pouch with strap</td>
</tr>
<tr>
<td>B0600A</td>
<td>Hard case for MT9090A</td>
</tr>
<tr>
<td>Z1023A</td>
<td>Strap</td>
</tr>
<tr>
<td>J1402A</td>
<td>Car plug cord</td>
</tr>
<tr>
<td>W3415AE</td>
<td>MT9090A/MT90914x/15x Quick Reference Guide (English, Printed)</td>
</tr>
<tr>
<td>W3416AE</td>
<td>MT9090A/MT90914x/15x Operation manual (English, Printed)</td>
</tr>
<tr>
<td>W3414AE</td>
<td>MT9090A/MT90914x/15x Operation manual (English, Electronic (CD))</td>
</tr>
<tr>
<td>OPTION-545VIP</td>
<td>Connector Inspection Microscope</td>
</tr>
<tr>
<td>Networks</td>
<td>PC Emulation Software for Data Analysis and Reporting</td>
</tr>
</tbody>
</table>

### 6) Replacement Adaptors

Must be added as separate line items.

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1413A</td>
<td>LC (UPC: Models -053, -054, -056 only)</td>
</tr>
<tr>
<td>J0617B</td>
<td>FC (UPC: Models -053, -054, -056 only)</td>
</tr>
<tr>
<td>J061RD</td>
<td>ST (UPC: Models -053, -054, -056 only)</td>
</tr>
<tr>
<td>J0618E</td>
<td>DIN (UPC: Models -053, -054, -056 only)</td>
</tr>
<tr>
<td>J061BF</td>
<td>HMS-10/A (UPC: Models -053, -054, -056 only)</td>
</tr>
<tr>
<td>J0619B</td>
<td>SC (UPC or APC: all models)</td>
</tr>
<tr>
<td>J0739A</td>
<td>FC (APC: Models -063, -064, -066 only)</td>
</tr>
</tbody>
</table>

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**B0601A Standard Soft Case**

Full Network Master operation without removal from the case. Provides excellent protection for use in harsh conditions.

**B0602A Deluxe Soft Case**

**B0600A Hard Case**
MT9090 Series

MU909011A Fault Locator Module
Compact fault locator instrument for an easy and accurate verification of drop cable installation.

MU909020A OCA Module
Compact CWDM channel analyzer to verify power levels, drift and channel presence of CWDM networks.

MU909060A GigE Module
Dedicated field test solution for installation and troubleshooting Ethernet links in the access network.

MT9083 Series ACCESS Master Mini-OTDR
All in one test tool for fiber construction and maintenance.

CMA5000a Multi-Layer Network Test Platform
A wide selection of test modules including Gigabit Ethernet and 10 Gbps Ethernet.

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Specifications are subject to change without notice.