

A truly revolutionary OTDR

MT9090A/MU909014x/15x
μOTDR Module™



 FiberVisualizer

A truly revolutionary OTDR

MT9090A/MU909014x/15x μOTDR Module™ Product Introduction

Version 5.00

December 2014

Anritsu Corporation

Introducing the MT9090A with MU909014x/15x μOTDR Module™

A truly revolutionary OTDR

**Pocket-sized
Easy Operation
Excellent OTDR Performance
Unique Battery Operation
Low Cost**



MT9090A μOTDR Module™

All in one*All required fiber tests in a single μOTDR!*

New μOTDR is available to test optical fiber by seven functions

- OTDR
- Loss Test Set (LTS)
- Video Inspection Probe (VIP)
- Light Source (LS)
- PON Power Meter (PON-PM)
- Visible Laser Diode (VLD)



FOR HIGHLY PORTABLE FIELD USE

- **Easily held with one hand**
 - » Palm-size (190mm x 96mm x 48mm)
 - » Approximately 700g
- **Battery operation**
 - » Max. 8 hours operation (with STD Battery pack)
 - » 4 hour recharge (with STD Battery pack)
 - » NiMH battery pack or “AA Alkaline Dry Battery” operation
- **Rugged design**
 - » Sealed design – no vents or fans
 - » Wrist strap to prevent “accidental” drops
- **Color indoor/outdoor display standard**
 - » 4.3” high resolution
 - » Landscape format naturally fits OTDR trace



THE FOOLPROOF testing device

- **Easy to use**
 - » True one-button fault location
 - » Automatic testing parameters selection in Full-automatic mode
 - » Quick fiber evaluation
 - » Event analysis table and full Trace view

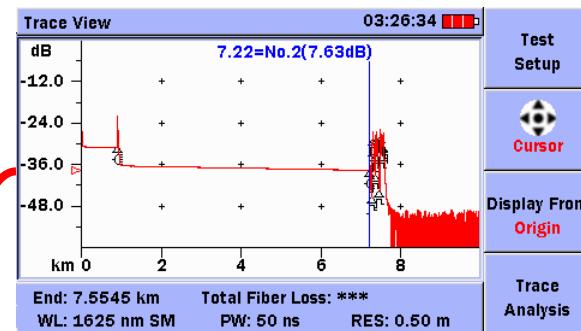
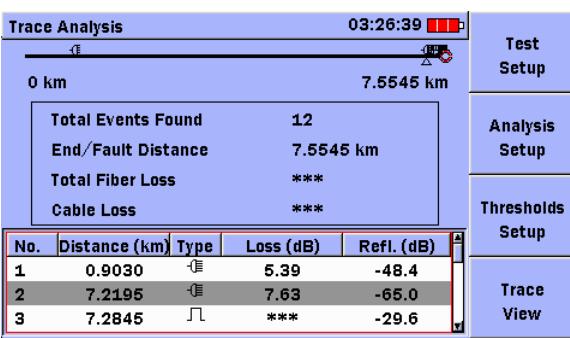
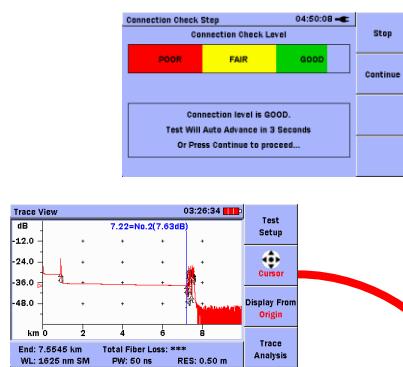
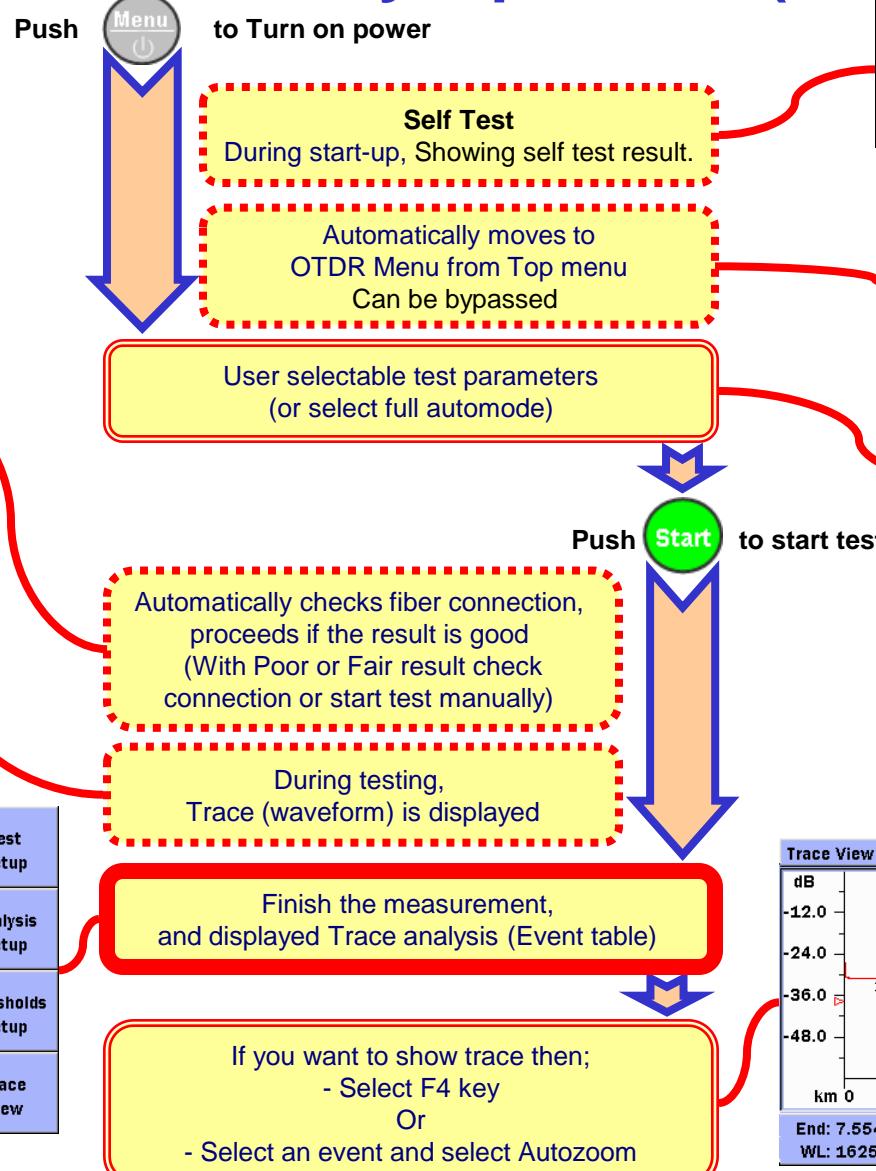
- **Quick boot-up**
 - » Ready to test in <15 seconds



MT9090A μOTDR Module™

Simple, One-button Operation

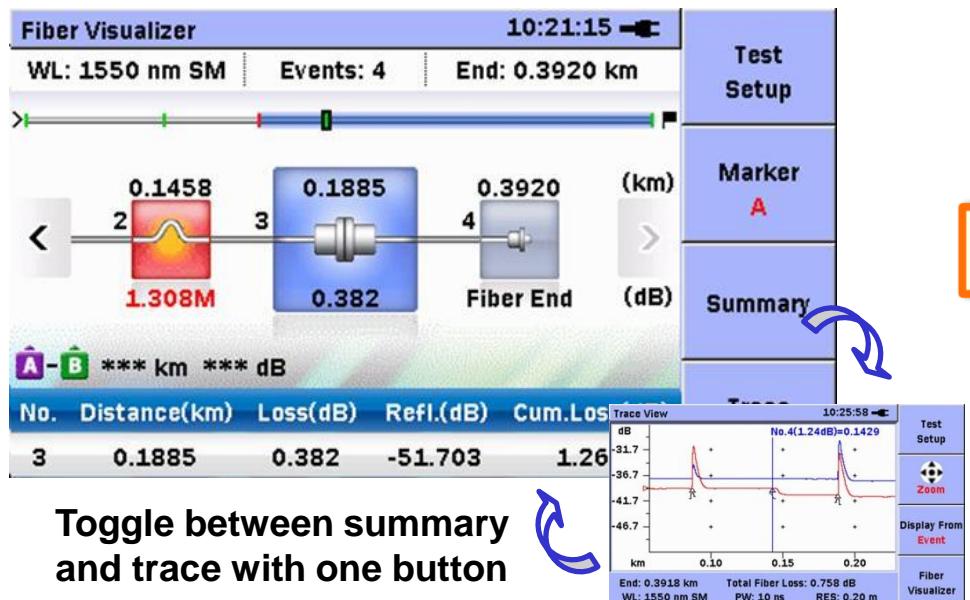
Easy Operation(2/5)



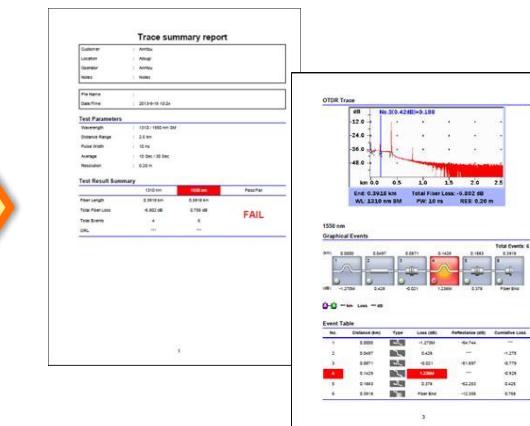
Fiber Visualizer Mode

FiberVisualizer

“Fiber Visualizer” is a new fault locate function designed to simplify the entire testing process. Fiber Visualizer automatically selects the testing parameters to ensure the correct setup and provides a simple, graphical summary of the fiber under test within seconds. A comprehensive PDF report can then be customized and generated, completing the testing process.



Toggle between summary
and trace with one button



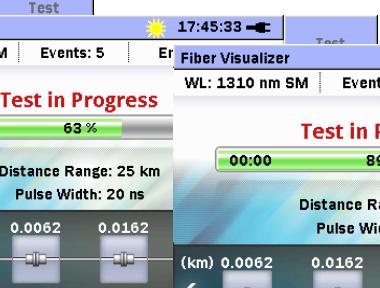
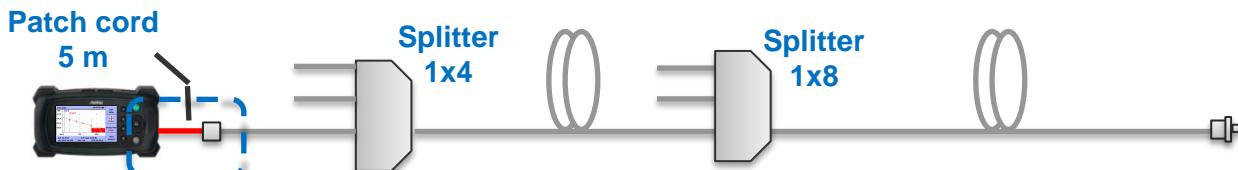
Simple PDF
report generation

Fiber Visualizer Mode

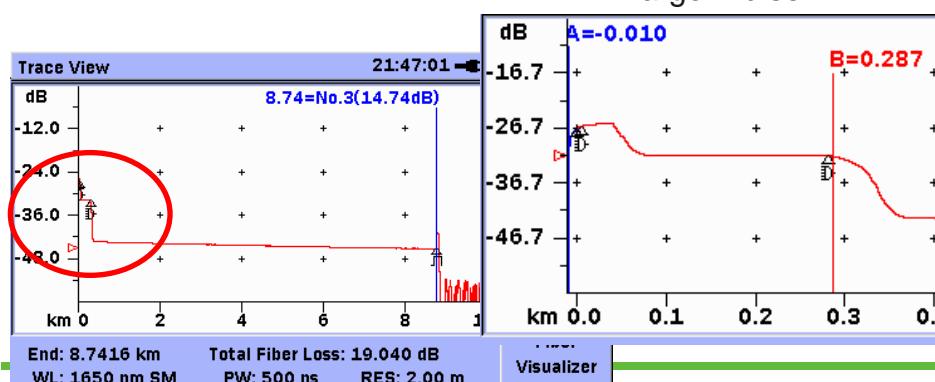
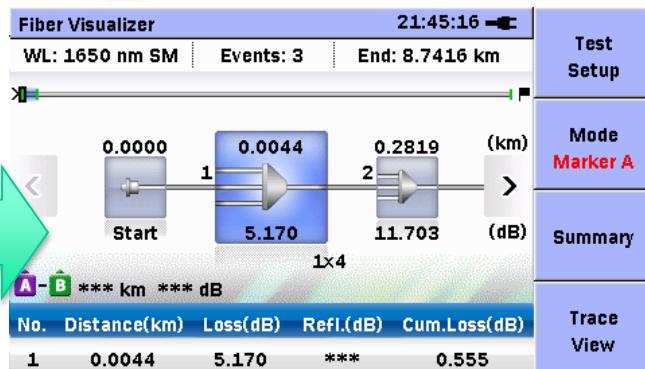
Enhancement PON Analysis New!

FiberVisualizer

Measurement Application



Large Pulse....



Possible to detect short fiber (5 m) and loss analysis on PON application.

DCFL Mode

The DCFL (Drop Cable Fault Locate) mode is a useful function to investigate faults occurring in a drop cable. It consists of the Power Meter function and OTDR function, so you are not required to switch measuring instruments or applications.

Step1: Power Meter Measurement

No.	Distance (km)	Type	Loss (dB)	Refl. (dB)
1	0.4972	END	0.640 dB/km	-18.316S

Step2: Fault Locate Measurement

No.	Distance (km)	Type	Loss (dB)	Refl. (dB)
1	0.4972	END	0.640 dB/km	-18.316S

Test Setup

Analysis Setup

Pass/Fail Setup

Trace View

MT9090A µOTDR Module™ Excellent Performance(1/4)

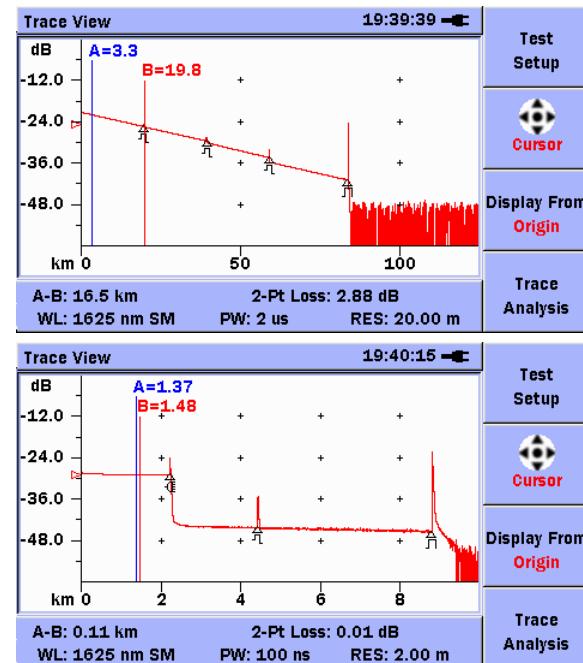
Testing Optical Fiber Anywhere in the Network

- **Excellent OTDR Performance**

- » Tests all fibers
 - A Core To Access Network I&M testing tool

- » High Dynamic range, Quick fiber evaluation
 - 31 – 38 dB Dynamic range
 - High number of sampling points

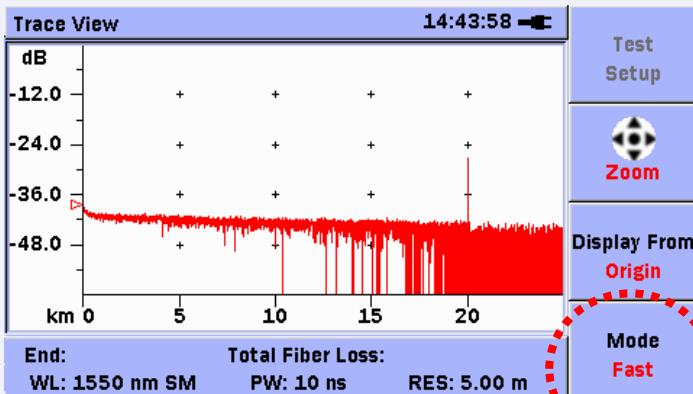
- » Complete PON testing tool
 - High resolution and extremely short dead zones ensure entire PON (1x32, 1x64 branches) network evaluation
 - Available in both In-Service test and Out-Service test configurations
 - 1625 nm or 1650 nm wavelengths for in-service maintenance of PONs without external filters



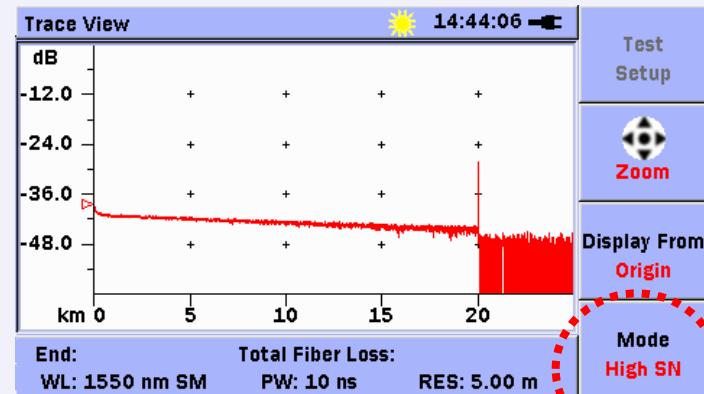
Testing Optical Fiber Anywhere in the Network

• Excellent OTDR Performance

- » User selectable Real time sweep mode
 - Select “Fast” for quick screen updates
 - Select “High SN” for “Low Noise” traces while in real time



Use High SN mode to reduce the trace noise for Real time measurements

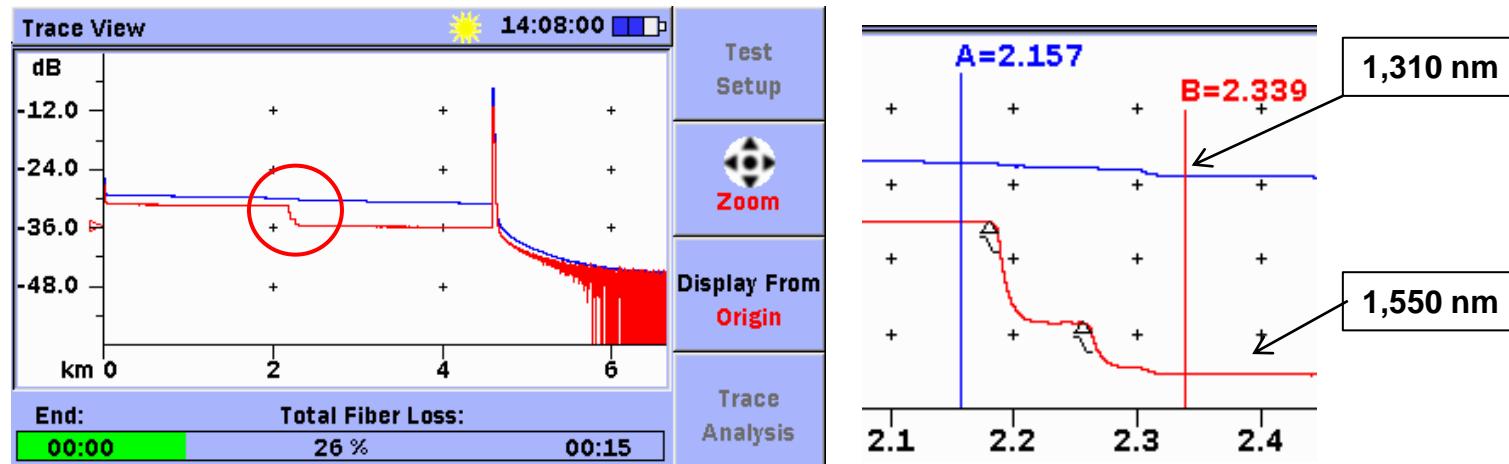


MT9090A μOTDR Module™ Excellent Performance(3/4)

Testing Optical Fiber Anywhere in the Network

- Excellent OTDR Performance

- » Macro Bend Analysis

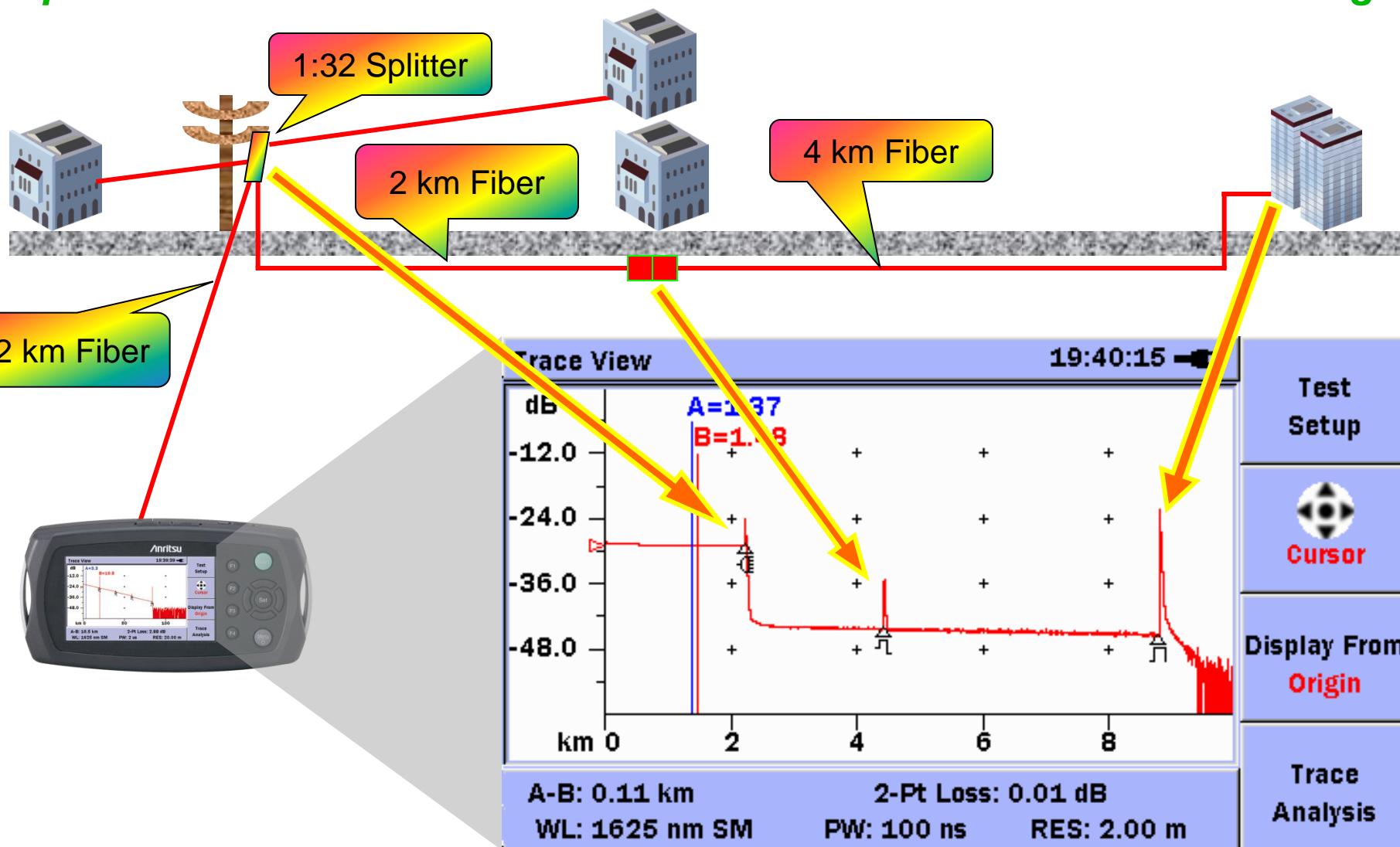


While there is no loss with the 1,310 nm waveform, there are two loss points with the 1,550 nm waveform. From these two waveforms, we are able to determine that there are two bend loss events.

*This function is not included in a single-wavelength model.

MT9090A µOTDR Module™ Excellent Performance(4/4)

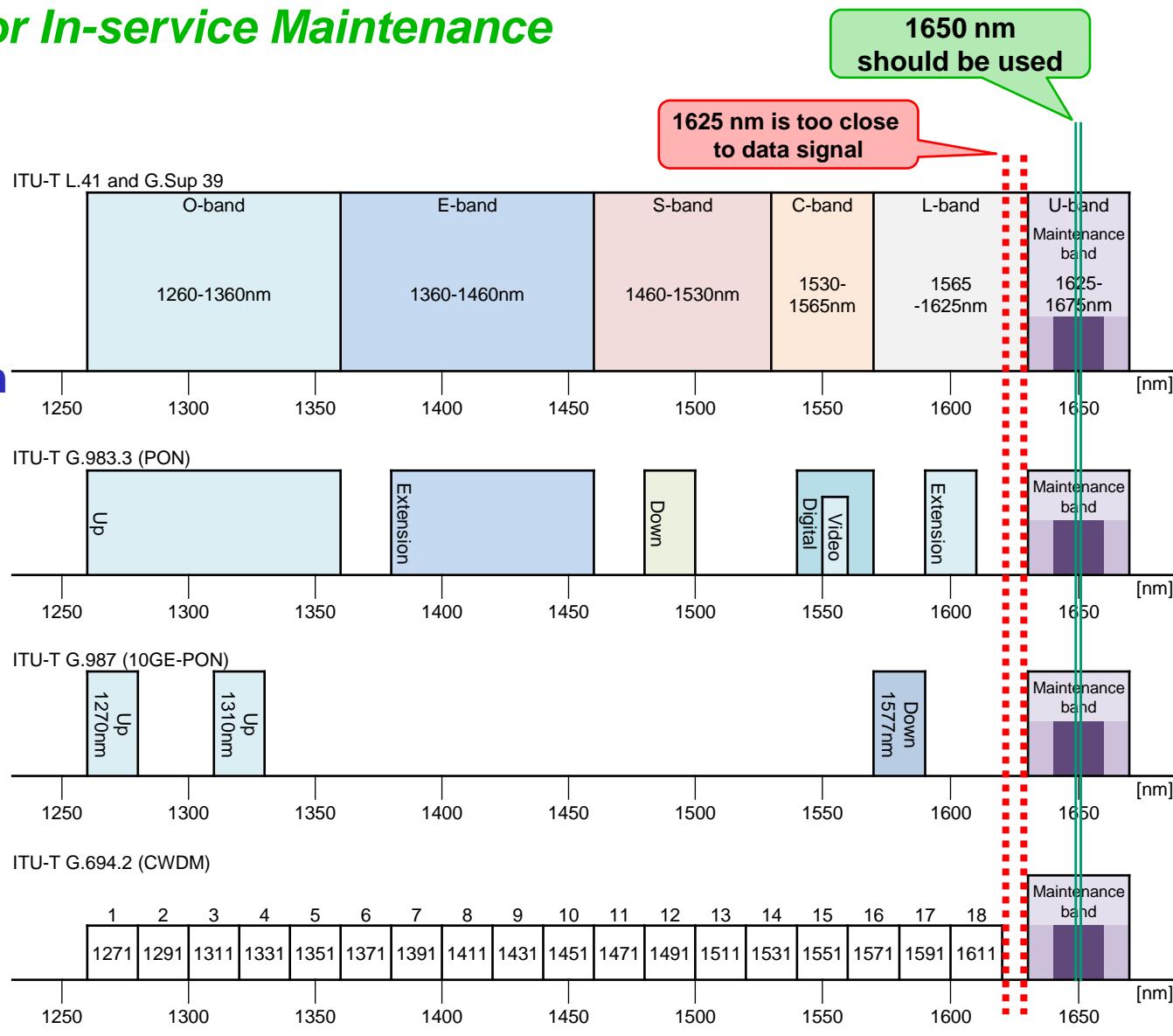
Complete PON Measurement for both In-service & Out-of-service Testing



MT9090A μOTDR Module™ Complete test tool for In-service(1/3)

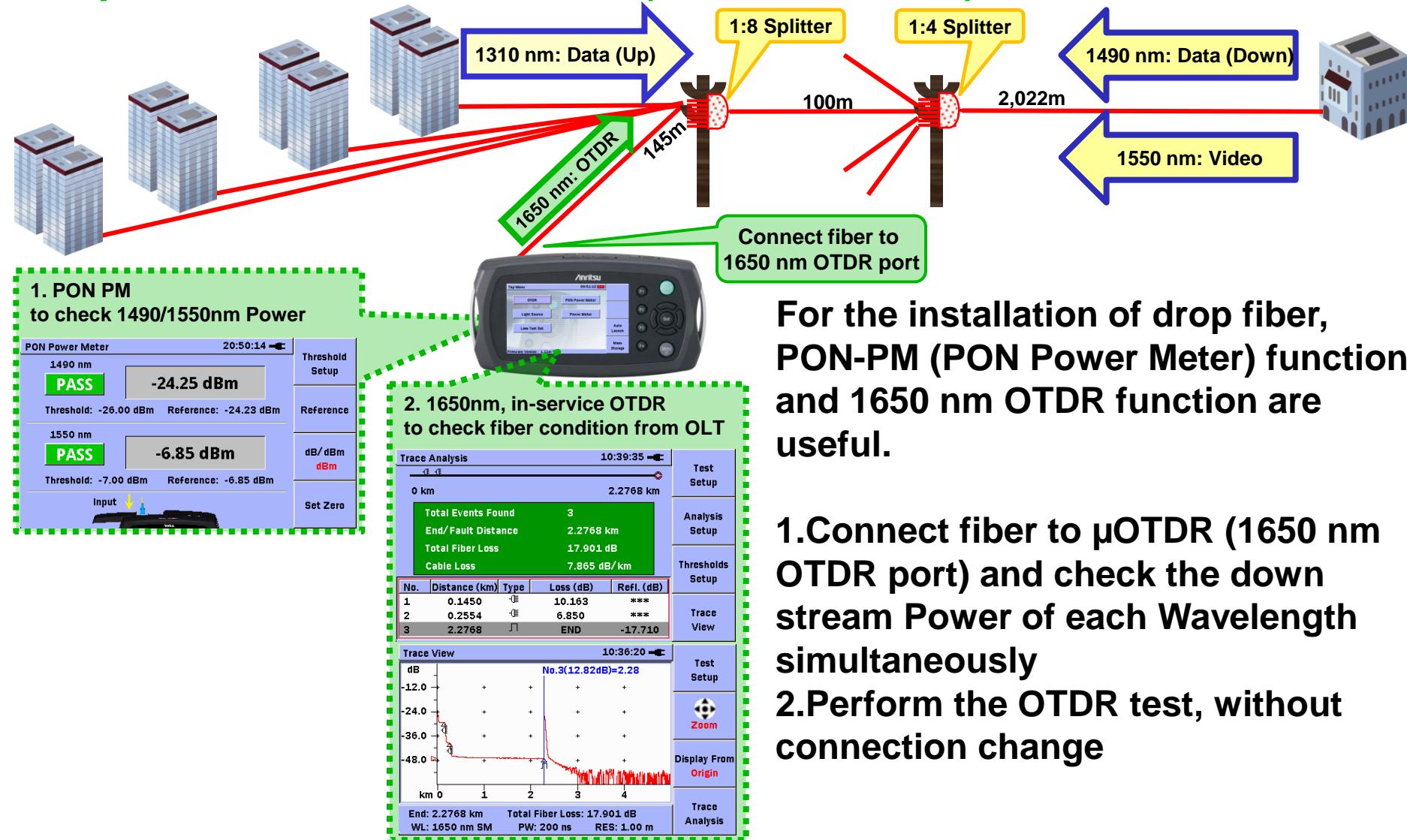
Complete Test tool for In-service Maintenance

According to ITU-T recommendation, L.41 and L.66 states that a maintenance wavelength of **1650 nm** should be used for testing the Access network.



MT9090A μOTDR Module™ Complete test tool for In-service(2/3)

Complete Test tool for In-service (PON Installation)

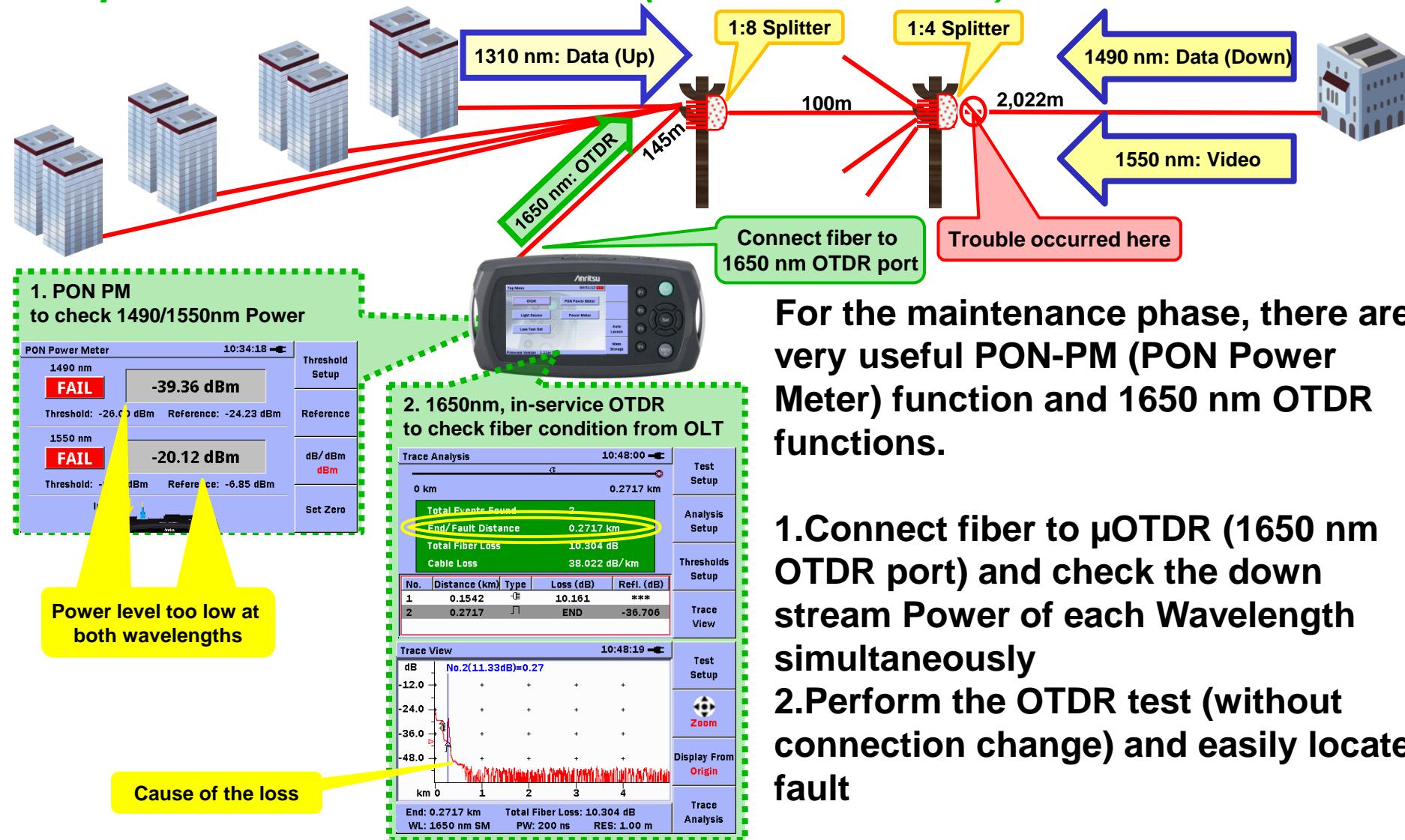


For the installation of drop fiber, PON-PM (PON Power Meter) function and 1650 nm OTDR function are useful.

1. Connect fiber to μOTDR (1650 nm OTDR port) and check the down stream Power of each Wavelength simultaneously
2. Perform the OTDR test, without connection change

MT9090A μOTDR Module™ Complete test tool for In-service(3/3)

Complete Test tool for In-service (PON Maintenance)



For the maintenance phase, there are very useful PON-PM (PON Power Meter) function and 1650 nm OTDR functions.

1. Connect fiber to μOTDR (1650 nm OTDR port) and check the down stream Power of each Wavelength simultaneously
2. Perform the OTDR test (without connection change) and easily locate fault

MT9090A µOTDR Module™ Unique Battery Operation

Dual battery support

- Long battery life

- 8 hours typical (Telcordia GR-196-CORE Issue 2, September 2010) / 4 hour recharge with Standard NiMH Battery pack (Supplied with the original unit),

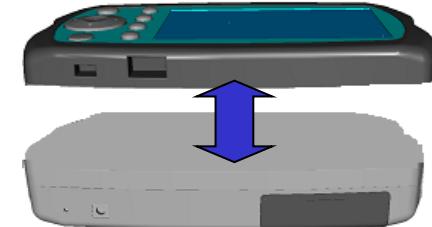
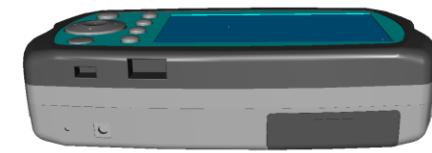
- General Dry Battery operation available

- General NiMH (readily available) operation is available
- Alkaline battery ("AA") operation is also available



MT9090A µOTDR Module™ Low cost **VALUE... without compromise!**

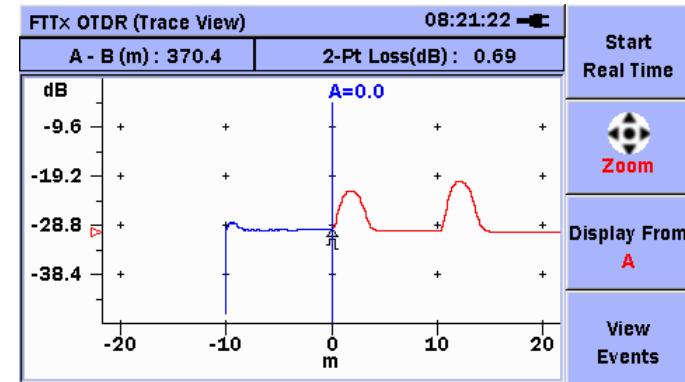
- **Cost-effective installation and maintenance tool**
 - » Modular platform ensures maximum return on investment
 - » Simple module swap for testing additional technologies
 - 10/100/1000MB Ethernet
 - CWDM channel analyzer
 - In-service OTDR maintenance



Additional Highlights

- **Built-in 10 m (30 ft) launch fiber**

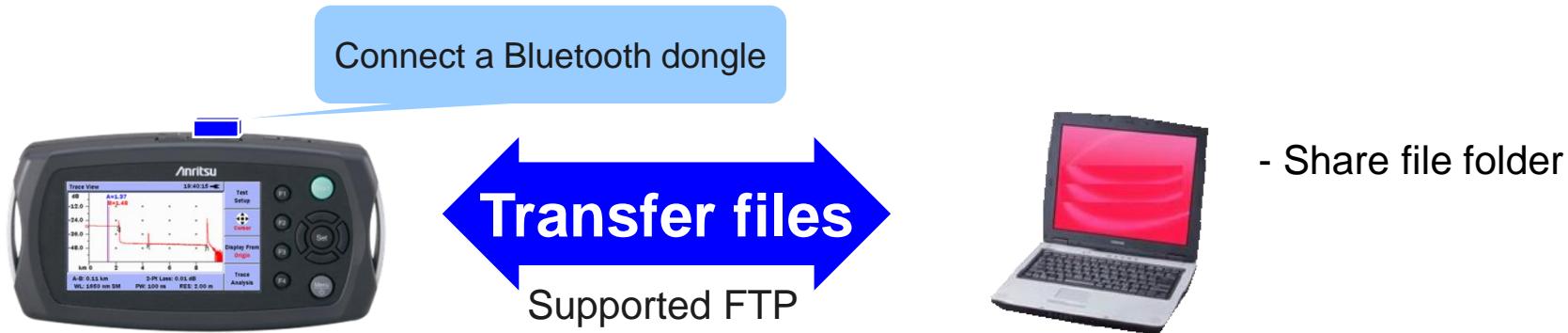
- » Measure front-end connection without additional patchcords
- » Can be enabled or disabled



- **Complete data management**

- » ~1,000 traces internal/10,000+ with USB
- » Easy “drag and drop” transfers to PC
- » Reporting and printing with “NETWORKS” PC software

Network Connectivity(1/2)



The Bluetooth feature enables you to share files between the µOTDR system and a computer (or other Bluetooth-enabled device).

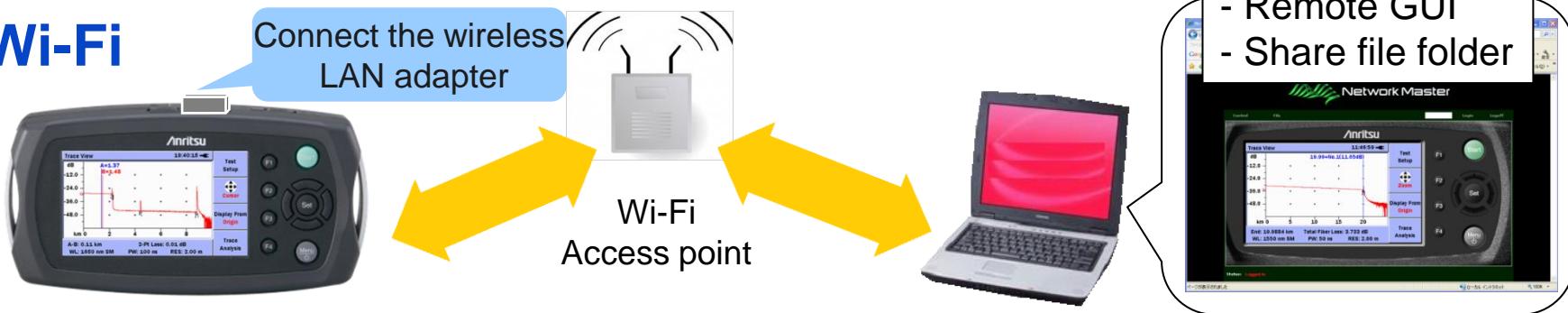
- The Bluetooth wordmark and logos are owned by the *Bluetooth SIG*, Inc. and any use of such marks by Anritsu is under license.

Notes:

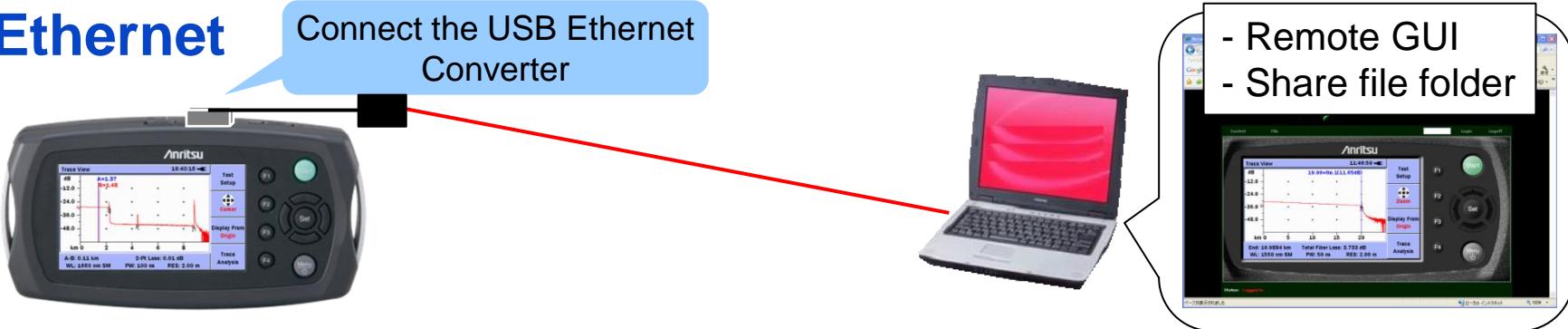
- For details of the target network Bluetooth settings, refer to the operation manual or website for the device to be used.
- FTP profile is required when sharing folders via Bluetooth. The Windows standard driver does not support USB Bluetooth dongles, so use the utility software and driver that come with your USB Bluetooth dongle.

Network Connectivity(2/2)

Wi-Fi



Ethernet

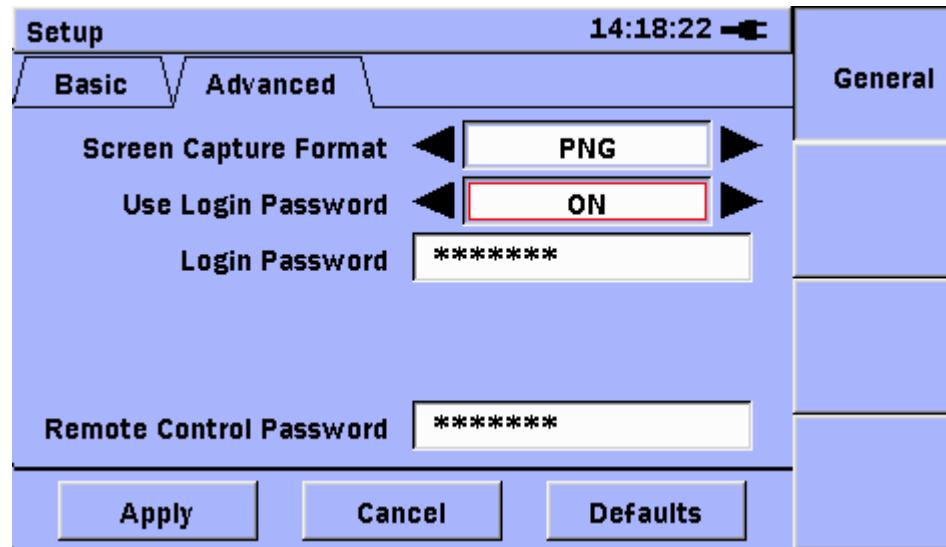


The Wi-Fi and Ethernet features enable you to share files as well as use the remote GUI feature. You can connect the µOTDR and computer, and control the µOTDR from a browser that supports Adobe Flash Player (e.g. IE). Following pages are screen captures illustrating control of the µOTDR using the remote GUI, and sharing files.

Password Protection Feature

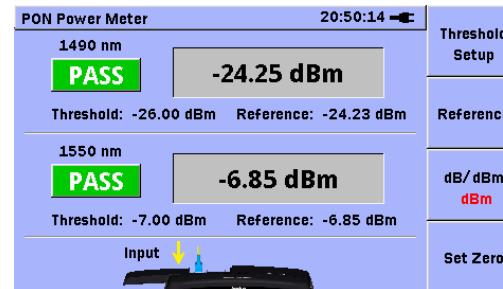
When you use this feature, users will be required to enter a password as soon as the system boots. Users will not be able to use the system until the password is authenticated.

This feature is useful if you want to limit the use of your measuring instruments to designated users, or you want to protect important files on the system's on-internal memory.



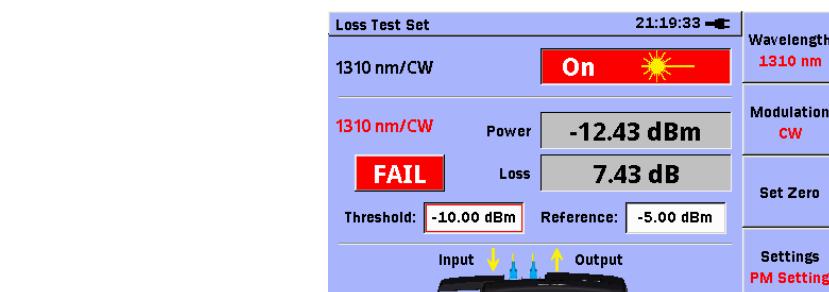
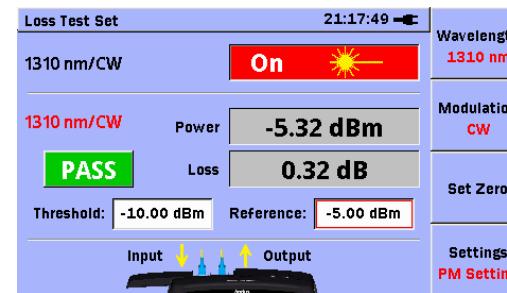
Option Features(1/5)

- **PON Power Meter (PON-PM) Option (A6/C6 Model)**
 - » Same port as 1625/1650 nm OTDR
Not required to change the connection between OTDR and PON-PM functions
 - » Simultaneously isolate, test and display 1490/1550 nm downstream signal powers
 - » User defined thresholds showing “Pass/Fail” condition



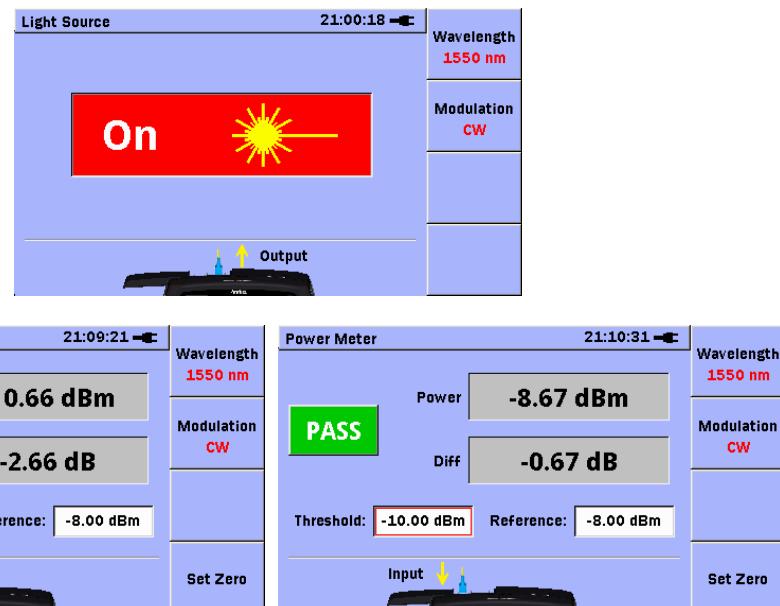
Option Features(2/5)

- **LTS option (C6 Model)**
 - » Selectable wavelength from available OTDR test wavelengths
 - » Selectable modulation (CW, 270 Hz, 1 kHz, 2 kHz) both LS (Light Source) and PM (Power Meter)
 - » User defined thresholds showing “Pass/Fail” condition of insertion losses and absolute powers



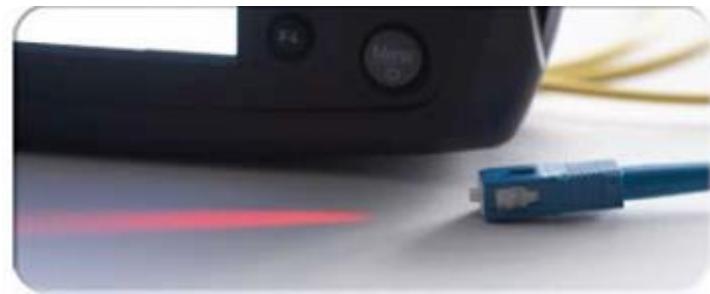
Option Features(3/5)

- **LS Option (A6/C6 Model)**
 - » Selectable wavelength from available OTDR test wavelengths
 - » Selectable modulation (CW, 270 Hz, 1 kHz, 2 kHz)
- **PM option (A6/B/B1/C/C6 Model)**
 - » Selectable wavelength (1310/1490/1550 nm)
 - » Selectable modulation (CW, 270 Hz, 1 kHz, 2 kHz) (A6/C/C6 Model)
 - » User defined thresholds showing “Pass/Fail” condition of insertion losses and absolute powers (A6/C/C6 Model)

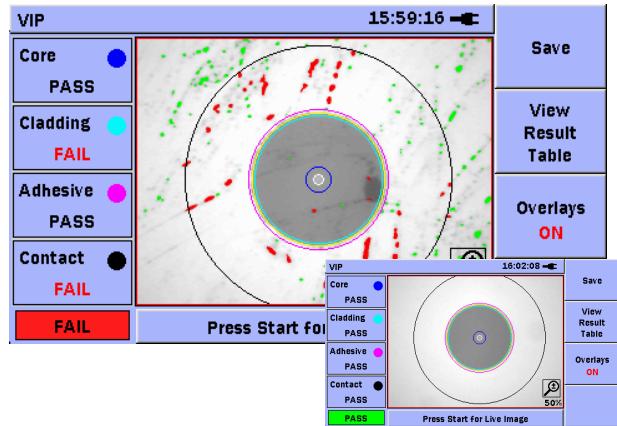


Option Features(4/5)

- **Visual Laser Diode (VLD, Visible Fault Locator) Option (A1/B1 Model)**
 - » Integrated 650 nm laser
 - » Can also be used to identify a particular fiber
 - » Can be used simultaneously with power meter or OTDR
- **Video Inspection Probe (VIP, Connector inspection) option**
 - » 400x image displayed
 - » Pass/Fail Analysis
 - » All software pre-loaded
 - » Eye-safe
 - » Image save/recall
 - » Hardware includes probe/tips



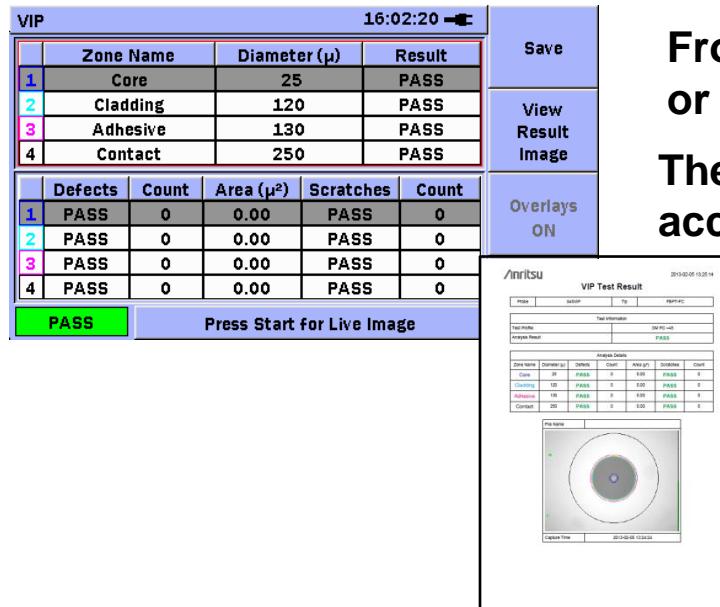
Option Features(5/5)



When analysis completes, the following information appears:

- Core
- Cladding
- Adhesive
- Contact

As well as a pass/fail determination for the total area for each.



From the Table View, you can identify “defects” or “scratches” on the end of the fiber.

The automatic pass/fail determination is made in accordance with the IEC61300-3-35 standard.

Output PDF Report

You can also create a PDF report on the system.

Specifications(1/4)

MT9090A Mainframe	
Dimensions and Mass	190 (W) x 96 (H) x 48 (D) mm (7.5" x 3.8" x 1.9") (including mainframe and module) <700 g (1.54 lbs.)(including mainframe, module and Standard battery)
Display	4.3-inch TFT Color LCD (480 x 272 pixels, transmissive)
Interface	USB 1.1, Type A x 1 (memory), Type B x 1 (USB mass storage)
µOTDR Module™ Common (MU909014C/C6, MU909015C/C6, MU909014A1/B/B1 and MU909015B/B1, MU909015A6)	
Fiber Type	10 µm/125 µm SMF (ITU-T G.652)
Distance Range	0.5, 1, 2.5, 5, 10, 25, 50, 75, 125, 250 km (IOR=1.500000)
Pulse Width	5, 10, 20, 50, 100, 200, 500ns, 1, 2, 5, 10, 20µs
Linearity	Which ever is greater ±0.05 dB/dB or ±0.1 dB
Return Loss Measurement Acc	14.8±2 dB
Distance Measurement Acc	±1 m ±3 x Measurement distance x 10 ⁻⁵ ±Marker resolution (excluding IOR uncertainty)
Data Storage	Internal memory 40 MB (<1,000 traces) External (USB Memory): 1GB (<30,000 traces)
IOR Setting	1.3000 to 1.7000 (0.0001 steps)
Units	Km, m, kft, ft, mi
Other Functions	Integrated launch fiber: 10m (30ft)
	Connection Check: Automatic check of OTDR to FUT connection quality
	Live fiber detect: Verifies presence of communication light in fiber
	Real time sweep: <1 sec (typ.)
Language	User Selectable (English, Simplified Chinese, Traditional Chinese, Korean, Japanese, French, German, Italian, Spanish, Polish, Portuguese, Finnish, Danish, Swedish, Spanish (Latin America), Russian and Dutch)
Power Supply	9V (dc), 100 V (ac) to 240 V (ac), Allowable Input voltage range: 90 V (ac) to 264 V (ac), 50 Hz/60 Hz
Fiber Event Analysis	Automatic, Displayed in table format based on user defined PASS/FAIL thresholds
Loss Measurement Modes	2 point loss, Splice loss, dB/km Loss LSA, ORL, Event
OTDR Trace Format	Telcordia universal (.SOR) issue 2 (SR-4731)
Battery	NiMH (Standard battery), NiMH (AA Type), Alkaline Dry Battery (AA Type)
	Operating time (Standard battery): 8 hours (typ., Telcordia GR-196-CORE Issue 2, September 2010)
	Recharging time: <4 hours (typ.)
Environment	Vibration: MIL-T-28800E Class 3, Dust and Drip proof: IP51
EMC	EN61326-1, EN61000-3-2

MT9090A μOTDR Module™**Specifications(2/4)****MU909014C/C6 and MU909015C/C6 μOTDR Module™**

Model Name		MU909015C/C6-057 MU909015C/C6-067	MU909015C/C6-058 MU909015C/C6-068	MU909015C/C6-059 MU909015C/C6-069	MU909014C/C6-057 MU909014C/C6-067	MU909014C/C6-058 MU909014C/C6-068
Center Wavelength		1310/1550±20 nm 1625nm±15nm	1310/1550±20 nm 1650nm±15nm	1310/1490/1550 ±20 nm	1310/1550±20 nm 1625nm±15nm	1310/1550±20 nm 1650nm±15nm
Dynamic Range	PW=20μsec	38dB/37dB/35dB	38dB/37dB/35dB	36dB/35dB/35dB	32.5dB/31dB/32.5dB	32.5dB/31 B/32.5dB
	PW=500nsec	27dB/26dB/25dB	27dB/26dB/24dB	25dB/24dB/24dB	24.5dB/23dB/24dB	24.5 B/23dB/24dB
Dead Zone (IOR=1.500000)		Fresnel: ≤0.8 m (Typical), Backscatter: ≤4.0 m (1310 nm, Typical), ≤4.5 m (1490/1550/ 1625/ 1650 nm, Typical)				
Number of Sampling Points		<250,001 pts (Course: <7,501 pts, Medium: <20,001 pts, Fine: <250,001 pts)				
Sampling Resolution		2 cm (min.)				
Environment		Operating temperature and humidity: -10 to +50°C, <95 % (no condensation)				

MU909014A1/B/B1 and MU909015B/B1 μOTDR Module™

Model Name		MU909015B/B1-056 MU909015B/B1-066	MU909014B/B1-056 MU909014B/B1-066	MU909014A1-053 MU909014A1-063	MU909014A1-054 MU909014A1-064	
Center Wavelength		1310/1550±20 nm		1310/1550±20 nm	1625±15 nm	
Dynamic Range	PW=20μsec	37 dB/36 dB	32.5 dB/31 dB	32.5 dB	32.5 dB	
	PW=500nsec	28 dB/26 dB	24.5 dB/23 dB	24.5 dB	24 dB	
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.)				
Environment		Operating temperature and humidity: -5 to +40°C, <80 % (no condensation)				

MU909015A6 μOTDR Module™

Model Name		MU909015A6-053 MU909015A6-063	MU909015A6-054 MU909015A6-064
Center Wavelength		1625nm±15nm	
Dynamic Range	PW=20μsec	35 dB	35 dB
	PW=500nsec	25 dB	24 dB
Dead Zone (IOR=1.500000)		Fresnel: ≤0.8 m (Typical), Backscatter: ≤4.5 m (Typical)	
Number of Sampling Points		<250,001 pts (Course: <7,501 pts, Medium: <20,001 pts, Fine: <250,001 pts)	
Sampling Resolution		2 cm (min.)	
Environment		Operating temperature and humidity: -10 to +50°C, <95 % (no condensation)	

MT9090A μOTDR Module™**Specifications(3/4)**

Power Meter				
Models	MU909015C6/14C6, MU909015A6	MU909015C/14C	MU909015B/B1, MU909014B/B1	
Wavelength	1310/1490/1550/1625/1650 nm	1310/1490/1550 nm	1310/1490/1550/1625/1650 nm	
Fiber Type	10 µm/125 µm SMF (ITU-T G.652)			
Measurement range	-50 to +26 dBm (CW) -40 to +13 dBm (270 Hz, 1 kHz, 2kHz)	-50 to -5 dBm (CW)		
Measurment port	Shared with OTDR port (1625 or 1650 nm OTDR port) Dedicated port (Opt.059 and 069)	Shared with OTDR port 1310/1550 nm OTDR port (Except options 059 and 069) 1310/1490/1550 nm OTDR port (Opt.059 and 069)		
Measurement Accuracy	±0.5 dB			
Modes of Operation	CW, 270 Hz, 1 kHz, 2kHz	CW		

Light Source (through OTDR port)	
Models	MU909015C6/14C6, MU909015A6
Wavelength	Same as OTDR
Fiber Type	10 µm/125 µm SMF (ITU-T G.652)
Wavelength Accuracy	1310/1550±25nm (MU909015C6/14C6) 1490±25nm (MU909015C6-059/15C6-069) 1625±25nm (MU909015C6/14C6-057, MU909015A6-053, MU909015C6/14C6-067, MU909015A6-063) 1650±25nm (MU909015C6/14C6-058, MU909015A6-054, MU909015C6/14C6-068, MU909015A6-064)
Output power	-5±1.5 dBm
Output stability	≤0.2dB
Modes of Operation	CW, 270 Hz, 1 kHz, 2 kHz
Warm-up time	10 minutes (after optical output is turned ON)

Visible Laser Diode	
Models	MU909014A1/B1/15B1
Connector	2.5 mm universal
Wavelength	650±15 nm (CW, +25°C)
Output Power	0±3 dBm (CW, +25°C)
Modulation	CW, 1 Hz

Specifications(4/4)

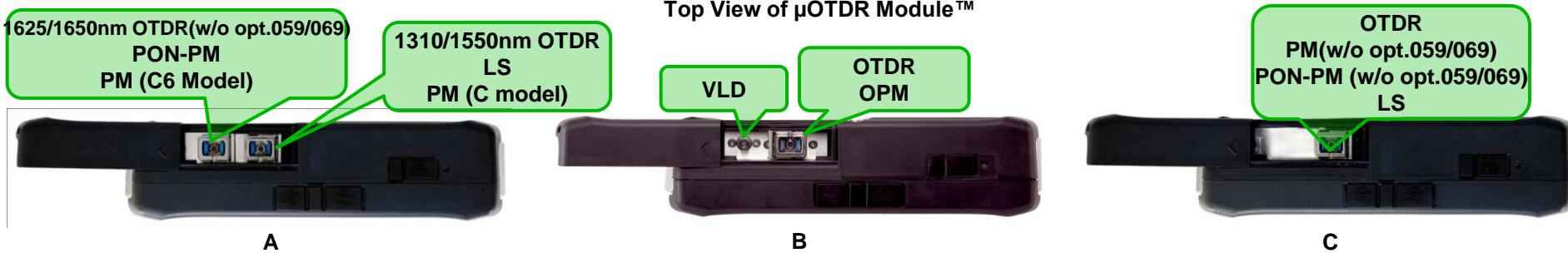
PON Power Meter	
Models	MU909015C6/14C6, MU909015A6
Wavelength	1490/1550 nm
Fiber Type	10 μ m/125 μ m SMF (ITU-T G.652)
Measurement range	-50 dBm to +13 dBm (1490nm, CW), -50 dBm to +26 dBm (1550nm, CW)
Measurement port	Shared with OTDR port (1625 or 1650 nm) Dedicated port (Opt.059 and 069)
Measurement Accuracy	± 0.5 dB
Isolation	1490nm: >35 dB, 1550nm: >50 dB

Loss Test Set	
Models	MU909015C6/14C6
Fiber Type	10 μ m/125 μ m SMF (ITU-T G.652)
Measurement port	Light Source: Shared with OTDR port (1310/1550 nm OTDR port; Except options 059 and 069) Shared with OTDR port (1310/1490/1550 nm OTDR port; Options 059 and 069) Power Meter: Shared with OTDR port (1625 or 1650nm OTDR port; Except options 059 and 069) Dedicated port (Options 059 and 069)
Light Source	
Wavelength	1310 \pm 25 nm, 1550 \pm 25 nm (Except options 059 and 069) 1310 \pm 25 nm, 1490 \pm 25 nm, 1550 \pm 25 nm (Options 059 and 069)
Output Power	-5 \pm 1.5 dBm (CW, 25°C)
Output stability	\leq 0.2dB
Modes of Operation	CW, 270 Hz, 1 kHz, 2 kHz
Warm-up time	10 minutes (after optical output is turned ON)
Power Meter	
Wavelength	1310/1490/1550/1625/1650 nm
Measurement range	-50 to +26 dBm (CW) -40 to +13 dBm (270 Hz, 1 kHz, 2kHz)
Measurement Accuracy	± 0.5 dB
Modes of Operation	CW, 270 Hz, 1 kHz, 2kHz

Models and Functions Matrix

	Model No.		Wavelength	Dynamic Range	PM	PON-PM	LTS	LS	VLD	Top view
	PC type	APC type								
Installation / Maintenance Models	MU909014C-057	MU909014C-067	1310/1550/1625 nm	32.5/31/32.5 dB	✓					A
	MU909014C-058	MU909014C-068	1310/1550/1650 nm	32.5/31/32.5 dB	✓					A
	MU909015C-057	MU909015C-067	1310/1550/1625 nm	38/37/35 dB	✓					A
	MU909015C-058	MU909015C-068	1310/1550/1650 nm	38/37/35 dB	✓					A
	MU909015C-059	MU909015C-069	1310/1490/1550 nm	36/35/35 dB	✓					C
	MU909014C6-057	MU909014C6-067	1310/1550/1625 nm	32.5/31/32.5 dB	✓	✓	✓	✓	✓	A
	MU909014C6-058	MU909014C6-068	1310/1550/1650 nm	32.5/31/32.5 dB	✓	✓	✓	✓	✓	A
	MU909015C6-057	MU909015C6-067	1310/1550/1625 nm	38/37/35 dB	✓	✓	✓	✓	✓	A
	MU909015C6-058	MU909015C6-068	1310/1550/1650 nm	38/37/35 dB	✓	✓	✓	✓	✓	A
	MU909015C6-059	MU909015C6-069	1310/1490/1550 nm	36/35/35 dB	✓	✓	✓	✓	✓	A
General Purpose Models	MU909014B-056	MU909014B-066	1310/1550 nm	32.5/31 dB	✓					C
	MU909014B1-056	MU909014B1-066	1310/1550 nm	32.5/31 dB	✓				✓	B
	MU909015B-056	MU909015B-066	1310/1550 nm	37/36 dB	✓					C
	MU909015B1-056	MU909015B1-066	1310/1550 nm	37/36 dB	✓				✓	B
Maintenance Models	MU909014A1-053	MU909014A1-063	1625 nm	32.5 dB					✓	B
	MU909014A1-054	MU909014A1-064	1650 nm	32.5 dB					✓	B
	MU909015A6-053	MU909015A6-063	1625 nm	35 dB	✓	✓		✓		C
	MU909015A6-054	MU909015A6-064	1650 nm	35 dB	✓	✓		✓		C

Top View of μOTDR Module™



Models and Software Application Matrix

	Model No.		Wavelength	Dynamic Range	Fiber Visualizer	DCFL Mode
	PC type	APC type				
Installation / Maintenance Models	MU909014C-057	MU909014C-067	1310/1550/1625 nm	32.5/31/32.5 dB	√	
	MU909014C-058	MU909014C-068	1310/1550/1650 nm	32.5/31/32.5 dB	√	
	MU909015C-057	MU909015C-067	1310/1550/1625 nm	38/37/35 dB	√	
	MU909015C-058	MU909015C-068	1310/1550/1650 nm	38/37/35 dB	√	
	MU909015C-059	MU909015C-069	1310/1490/1550 nm	36/35/35 dB	√	
	MU909014C6-057	MU909014C6-067	1310/1550/1625 nm	32.5/31/32.5 dB	√	√
	MU909014C6-058	MU909014C6-068	1310/1550/1650 nm	32.5/31/32.5 dB	√	√
	MU909015C6-057	MU909015C6-067	1310/1550/1625 nm	38/37/35 dB	√	√
	MU909015C6-058	MU909015C6-068	1310/1550/1650 nm	38/37/35 dB	√	√
	MU909015C6-059	MU909015C6-069	1310/1490/1550 nm	36/35/35 dB	√	
General Purpose Models	MU909014B-056	MU909014B-066	1310/1550 nm	32.5/31 dB	√	
	MU909014B1-056	MU909014B1-066	1310/1550 nm	32.5/31 dB	√	
	MU909015B-056	MU909015B-066	1310/1550 nm	37/36 dB	√	
	MU909015B1-056	MU909015B1-066	1310/1550 nm	37/36 dB	√	
Maintenance Models	MU909014A1-053	MU909014A1-063	1625 nm	32.5 dB	√	
	MU909014A1-054	MU909014A1-064	1650 nm	32.5 dB	√	
	MU909015A6-053	MU909015A6-063	1625 nm	35 dB	√	√
	MU909015A6-054	MU909015A6-064	1650 nm	35 dB	√	√

MT9090A μOTDR Module™

Ordering Guide

Product Number	Product Name
MT9090A	Mainframe

Product Number	Product Name
MU909014A1	μOTDR Module
MU909014B	μOTDR Module
MU909014B1	μOTDR Module
MU909014C	μOTDR Module
MU909014C6	μOTDR Module
MU909015A6	μOTDR Module
MU909015B	μOTDR Module
MU909015B1	μOTDR Module
MU909015C	μOTDR Module
MU909015C6	μOTDR Module

(1) Main frame
(if customer already owns a mainframe this item may not be required)

Product Number	Product Name
MU909014A/B/C-025	FC-APC Connector key width 2.0mm
MU909014A/B/C-026	SC-APC Connector
MU909014A/B/C-037	FC Connector
MU909014A/B/C-039	DIN Connector
MU909014A/B/C-040	SC Conector
MU909015A/B/C-025	FC-APC Connector key width 2.0mm
MU909015A/B/C-026	SC-APC Connector
MU909015A/B/C-037	FC Connector
MU909015A/B/C-039	DIN Connector
MU909015A/B/C-040	SC Conector

(2) μOTDR Module

(3) μOTDR Option
- Wavelength
- Dynamic Range
- Functions

(4) Optical Connector type

Must be ordered as separate line items

Product Number	Product Name	Remarks
MU909014C-057	SMF 1310/1550/1625nm μOTDR Module (UPC)	32.5/31/32.5 dB
MU909014C-067	SMF 1310/1550/1625nm μOTDR Module (APC)	
MU909014C-058	SMF 1310/1550/1650nm μOTDR Module (UPC)	
MU909014C-068	SMF 1310/1550/1650nm μOTDR Module (APC)	
MU909015C-057	SMF 1310/1550/1625nm μOTDR Module (UPC)	38/37/35 dB
MU909015C-067	SMF 1310/1550/1625nm μOTDR Module (APC)	
MU909015C-058	SMF 1310/1550/1650nm μOTDR Module (UPC)	38/37/35 dB
MU909015C-068	SMF 1310/1550/1650nm μOTDR Module (APC)	
MU909015C-059	SMF 1310/1490/1650nm μOTDR Module (UPC)	36/35/35 dB
MU909015C-069	SMF 1310/1490/1650nm μOTDR Module (APC)	
MU909014C6-057	SMF 1310/1550/1625nm μOTDR Module (UPC/OPM/LS)	32.5/31/32.5 dB
MU909014C6-067	SMF 1310/1550/1625nm μOTDR Module (APC/OPM/LS)	
MU909014C6-058	SMF 1310/1550/1650nm μOTDR Module (UPC/OPM/LS)	32.5/31/32.5 dB
MU909014C6-068	SMF 1310/1550/1650nm μOTDR Module (APC/OPM/LS)	
MU909015C6-057	SMF 1310/1550/1625nm μOTDR Module (UPC/OPM/LS)	38/37/35 dB
MU909015C6-067	SMF 1310/1550/1625nm μOTDR Module (APC/OPM/LS)	
MU909015C6-058	SMF 1310/1550/1650nm μOTDR Module (UPC/OPM/LS)	38/37/35 dB
MU909015C6-068	SMF 1310/1550/1650nm μOTDR Module (APC/OPM/LS)	
MU909015C6-059	SMF 1310/1490/1550nm μOTDR Module (UPC/OPM/LS)	36/35/35 dB
MU909015C6-069	SMF 1310/1490/1550nm μOTDR Module (APC/OPM/LS)	
MU909014B-056	SMF 1310/1550nm μOTDR Module (UPC)	32.5/31 dB
MU909014B-066	SMF 1310/1550nm μOTDR Module (APC)	
MU909014B1-056	SMF 1310/1550nm μOTDR Module (UPC/VLD)	32.5/31 dB
MU909014B1-066	SMF 1310/1550nm μOTDR Module (APC/VLD)	
MU909015B-056	SMF 1310/1550nm μOTDR Module (UPC)	37/36 dB
MU909015B-066	SMF 1310/1550nm μOTDR Module (APC)	
MU909015B1-056	SMF 1310/1550nm μOTDR Module (UPC/VLD)	37/36 dB
MU909015B1-066	SMF 1310/1550nm μOTDR Module (APC/VLD)	
MU909014A1-053	SMF 1625nm μOTDR Module (UPC/VLD)	32.5 dB
MU909014A1-063	SMF 1625nm μOTDR Module (APC/VLD)	
MU909014A1-054	SMF 1650nm μOTDR Module (UPC/VLD)	32.5 dB
MU909014A1-064	SMF 1650nm μOTDR Module (APC/VLD)	
MU909015A6-053	SMF 1310/1550/1625nm μOTDR Module (UPC/OPM/LS)	35 dB
MU909015A6-063	SMF 1310/1550/1625nm μOTDR Module (APC/OPM/LS)	
MU909015A6-054	SMF 1310/1550/1625nm μOTDR Module (UPC/OPM/LS)	
MU909015A6-064	SMF 1310/1550/1625nm μOTDR Module (APC/OPM/LS)	35 dB

Accessories(1/2)



Mainframe with Protector



B0663A Protector

The mainframe with fitted protector
(Includes a shoulder strap)

*Standard Accessory



B0601B

Standard Soft Case

This standard accessory accommodates the mainframe with fitted protector

*Standard Accessory



B0602A

Deluxe Soft Case

Full Network Master operation without removal from the case.

This does not accommodate the mainframe if the protector is fitted.



B0600B Hard Case

This accommodates two mainframes (with or without fitted protector), accessories (LS or PM, backup battery, fiber cleaner, etc.).

Accessories(2/2)



G0306A
Video Inspection Probe

400x Fixed type



OPTION-545VIP
Video Inspection Probe

Selectable 200x/400x type

● United States

Anritsu Company

1155 East Collins Blvd., Suite 100, Richardson,
TX 75081, U.S.A.
Toll Free: 1-800-267-4878
Phone: +1-972-644-1777
Fax: +1-972-671-1877

● Canada

Anritsu Electronics Ltd.

700 Silver Seven Road, Suite 120, Kanata,
Ontario K2V 1C3, Canada
Phone: +1-613-591-2003
Fax: +1-613-591-1006

● Brazil

Anritsu Eletrônica Ltda.

Praça Amadeu Amaral, 27 - 1 Andar
01327-010 - Bela Vista - São Paulo - SP - Brazil
Phone: +55-11-3283-2511
Fax: +55-11-3288-6940

● Mexico

Anritsu Company, S.A. de C.V.

Av. Ejército Nacional No. 579 Piso 9, Col. Granada
11520 México, D.F., México
Phone: +52-55-1101-2370
Fax: +52-55-5254-3147

● United Kingdom

Anritsu EMEA Ltd.

200 Capability Green, Luton, Bedfordshire, LU1 3LU, U.K.
Phone: +44-1582-433200
Fax: +44-1582-731303

● France

Anritsu S.A.

12 avenue du Québec, Bâtiment Iris 1-Silic 612,
91140 VILLEBON SUR YVETTE, France
Phone: +33-1-60-92-15-50
Fax: +33-1-64-46-10-65

● Germany

Anritsu GmbH

Nemetschek Haus, Konrad-Zuse-Platz 1
81829 München, Germany
Phone: +49-89-442308-0
Fax: +49-89-442308-55

● Italy

Anritsu S.r.l.

Via Elio Vittorini 129, 00144 Roma, Italy
Phone: +39-6-509-9711
Fax: +39-6-502-2425

● Sweden

Anritsu AB

Kistagången 20B, 164 40 KISTA, Sweden
Phone: +46-8-534-707-00
Fax: +46-8-534-707-30

● Finland

Anritsu AB

Teknolevardi 3-5, FI-01530 VANTAA, Finland
Phone: +358-20-741-8100
Fax: +358-20-741-8111

● Denmark

Anritsu A/S

Kay Fiskers Plads 9, 2300 Copenhagen S, Denmark
Phone: +45-7211-2200
Fax: +45-7211-2210

● Russia

Anritsu EMEA Ltd.

Representation Office in Russia

Tverskaya str. 16/2, bld. 1, 7th floor.
Russia, 125009, Moscow
Phone: +7-495-363-1694
Fax: +7-495-935-8962

● United Arab Emirates

Anritsu EMEA Ltd.

Dubai Liaison Office

P O Box 500413 - Dubai Internet City
Al Thuraya Building, Tower 1, Suit 701, 7th Floor
Dubai, United Arab Emirates
Phone: +971-4-3670352
Fax: +971-4-3688460

● India

Anritsu India Private Limited

2nd & 3rd Floor, #837/1, Binnamangla 1st Stage,
Indiranagar, 100ft Road, Bangalore - 560038, India
Phone: +91-80-4058-1300
Fax: +91-80-4058-1301

● Singapore

Anritsu Pte. Ltd.

11 Chang Charn Road, #04-01, Shiro House
Singapore 959640
Phone: +65-6282-2400
Fax: +65-6282-2533

● P.R. China (Shanghai)

Anritsu (China) Co., Ltd.

Room 2701-2705, Tower A,
New Caoheing International Business Center
No. 391 Gui Ping Road Shanghai, 200233, P.R. China
Phone: +86-21-6237-0898
Fax: +86-21-6237-0899

● P.R. China (Hong Kong)

Anritsu Company Ltd.

Unit 1006-7, 10/F., Greenfield Tower, Concordia Plaza,
No. 1 Science Museum Road, Tsim Sha Tsui East,
Kowloon, Hong Kong, P.R. China
Phone: +852-2301-4980
Fax: +852-2301-3545

● Japan

Anritsu Corporation

8-5, Tamura-cho, Atsugi-shi, Kanagawa, 243-0016 Japan
Phone: +81-46-296-1221
Fax: +81-46-296-1238

● Korea

Anritsu Corporation, Ltd.

5FL, 235 Pangyoeko-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, 463-400 Korea
Phone: +82-31-696-7750
Fax: +82-31-696-7751

● Australia

Anritsu Pty. Ltd.

Unit 21/270 Ferntree Gully Road, Notting Hill,
Victoria 3168, Australia
Phone: +61-3-9558-8177
Fax: +61-3-9558-8255

● Taiwan

Anritsu Company Inc.

7F, No. 316, Sec. 1, NeiHu Rd., Taipei 114, Taiwan
Phone: +886-2-8751-1816
Fax: +886-2-8751-1817

Please Contact: