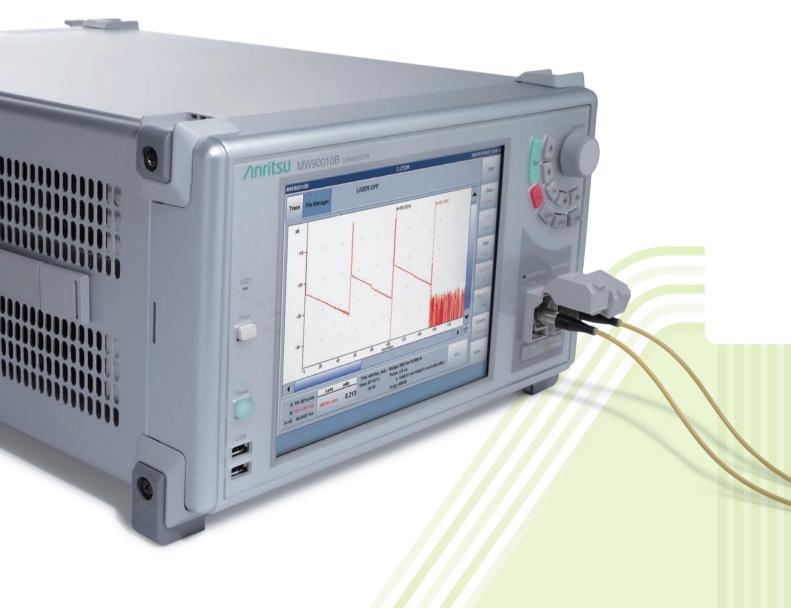


Coherent OTDR MW90010B





Телефон: +7 (499) 685-4444

info@4test.ru www.4test.ru



Detecting over Decades

Anritsu developed its world-first Optical Time Domain Reflectometer (OTDR) in 1977 and released a Coherent OTDR for evaluating optical submarine cables in 2008.

Following this release, Anritsu's Coherent OTDR has been a popular tester for evaluating and troubleshooting faults in optical submarine cables due to its ease-of-use, long distance range and wide dynamic range.

This model revision supports a wider wavelength range with added maintenance bands and is the perfect solution for the next decade of testing and maintenance.





Coherent OTDR MW90010B

Distance Range

Max. 20,000 km **Wavelength Range**

1527.60 to 1567.13 nm Portability (Weight)

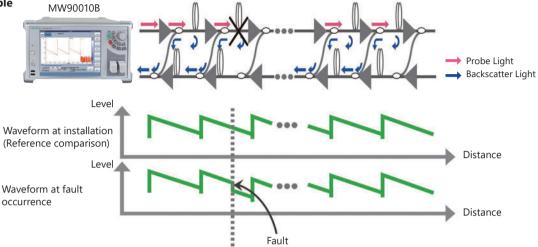
≤10 kg

C-band Support for Distance Measurements up to 20,000 km

Easier Measurement with Extended Hardware and Simple GUI

The Coherent OTDR (C-OTDR) MW90010B is a measuring instrument for detecting faults in ultra-long optical submarine cables of up to 20,000 km including EDFA (erbiullIdoped fiber amplifier). It is the ideal solution for evaluating new cables at service deployment as well as for troubleshooting in-service faults.

C-OTDR Measurement Example



Full C-band Coverage

Wavelengths can be set in the range from 1527.60 nm to 1567.13 nm for quick testing and maintenance of multi-wavelength submarine cable by using unused wavelengths.

Measure Submarine Cables up to MAX 20,000 km Long with 10 m Resolution

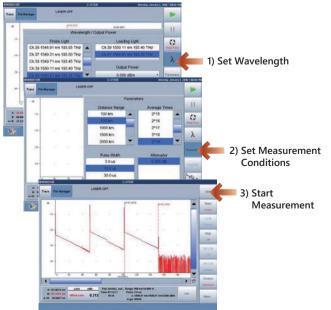
The MW90010B can measure optical submarine cables of up to 12,000 km with a constant measurement resolution of 10 m. As a result, faults can be detected correctly irrespective of the distance. Moreover, adding the Extended Measurement Distance MW90010B-003 option supports measurement of optical submarine cables up to 20,000-km long.

Wide Dynamic Range

Typical optical submarine cables are designed with repeaters every 50 km to 60 km but the high resolution of the MW90010B easily supports fiber loss measurement of these systems as well as fault location of cables with repeaters spaced at more than 80 km.

Excellent GUI

A simple three-step operation using the intuitive GUI starts measurement. In addition, the displayed estimated time until measurement will finish, helps planning after starting.



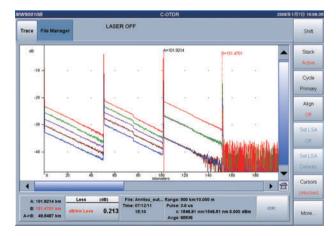
Lightweight and Compact

The 40% weight reduction compared to previous Anritsu testers improves portability.

The all-in-one design incorporates a tunable light source for easy on-site troubleshooting.

Simultaneous Display of 8 Waveforms (max.)

Installation and maintenance of optical submarine cables requires comparison of current waveform data with data at cable installation to monitor aging changes. The MW90010B makes this comparison easy because it can display up to 8 waveforms simultaneously, allowing faults to be seen at glance by comparing the install waveform with the fault waveform on one screen.



Built-in Standard OTDR Functions

The MW90010B has the full range of versatile built-in applications, including real-time measurement, zoom/shift function, 2-point loss analysis, etc., facilitating smooth analysis of measurement results.

Proposed Operation Method and Analysis Procedure Matching Usage Environment

All-in-one Submarine Cable Fault Location to Data Management

Remote Operation Function

The MW90010B supports control by remote commands from an external controller. It is installated in a customer's system. In addition, use of the Windows Remote Desktop function*1 is also supported. This function supports convenient operation of a remote MW900010B in real-time.



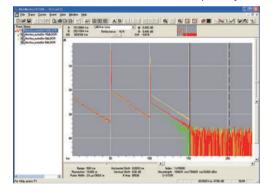
- *1: Settable by the customer.
- *2: To connect to a network, contact your network administrator.

Additional Averaging Processing

Evaluation of optical submarine communications cables using a C-OTDR can take many hours. However, measurement productivity is greatly increased using the MW90010B Additional Averaging function. For example, after waveform data has been measured for 2^{16} averagings, the additional averaging function can be used to increase the measured data to 2^{17} averagings.

Waveform Analysis using Emulation Software

Waveform data measured and saved by the MW90010B can be analyzed on a PC running a Windows OS using the optional NETWORKS (version 4.1 or newer) emulation software (sold separately).



Support for Telcordia format (SR-4731)

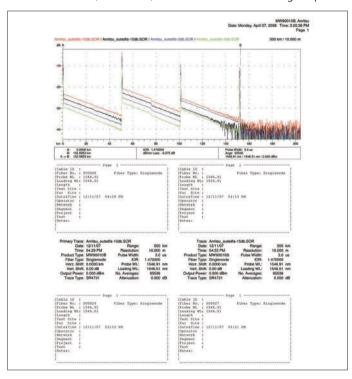
The OTDR Telcordia format is supported, enabling customers to read measurement data using their own waveform analysis tools.

350-GB Internal Memory

Up to 3.5 million measured data files can be saved in the 350-GB internal memory. Saved files can be copied either to a USB memory stick or over a network connection for external use.

PDF-format Reports

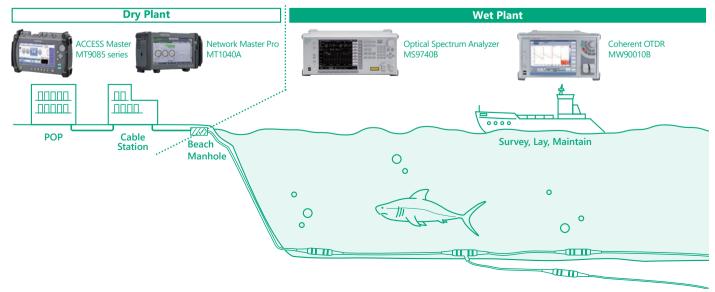
Measured data can be saved in PDF format for confirming measurement date, conditions, and waveform data on a single report.



Windows® is a registered trademark of Microsoft Corporation in the USA and other countries.

Submarine Cable I&M Solution

Anritsu extends its line of I&M products for submarine cables.



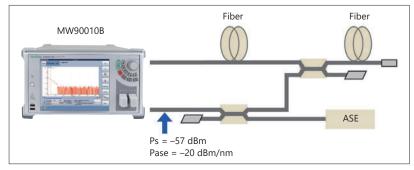
Specifications

RoHS S.I. 2012 No.3032, EN IEC 63000: 2018 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10	Fiber Under Test		ITU-T G.653 (DSF)
Wavelength (Probe Light) 1,527.50 mm to 1,507.13 mm (TU-T Grid, Wavelength in vacoum setting with 50 GHz steps) Wavelength Accuracy 4,005 mm (2,907.05 to 3,907.0) Warm-up Time 2 monutes (±20°C to 3-20°C) Value Width 3,10,30,60,100 µs Value Width 3,10,30,60,100 µs Optical Output Power 0 to 1.13 dbm , 50 db steps John And Step (January Control output Power) 18 db typ. (25°C) Dynamic Range (one way, S/N = 1) 18 db typ. (25°C) See the block diagram on next page) Pulse width: 10 µs, Average times: 2°°, Distance range: 1000 km, Smoothing: On, Ps: –57 dbm @ Pin** Dead Zone 0,5 km @utse width: 3 µs) Pulse width: 10 µs, Average times: 2°°, Distance range: 1000 km, Smoothing: On, Ps: –57 dbm @ Pin** Plast are Measurement Accuracy 10 or 5 w measurement value (m) Vertical Scale 0,02,005,11,02,05,102,03,05 1,000 dbm, 500 km steps) Distance Range With Mys00108-003: 100 km, 500 km to 2,000 km (n 500 km steps) Sampling Resolution (IOR = 1,500000) 100 km, 500 km to 12,000 km, 600 km steps) Sampling Resolution (IOR = 1,500000) 100 km, 500 km to 12,000 km, 600 km steps) Other Functions 1 minutes (pistance range: 1000 km, Average times: 2°°)			FC, SC (Replaceable, PC type)
Wavelength Accuracy 2.0.5 mm (+ 20°C to + 20°C)	·		
Warm-up Time			
Dodding Light Source (Dummy)			
The loading wavelength can be selectable at +50 GHz or -50 GHz of the probe (OTDR) wavelength.	'		
Pulse Width	Loading Light Source (Dummy)		
Optical Output Power 0 to +13 dBm 0.5 dB steps Dynamic Range (one way, S/N = 1) 318 dB bp (25°C) Measurement Conditions: 9 law width: 10 sp, Average times: 2°, Distance range: 1000 km, Smoothing: On, Ps: –57 dBm @ Pin*1 Dead Zone 0.5 km (Pulse width: 3 µs) Distance Measurement Accuracy 410 m + 05.5 × 10° × measurement value (m) Distance Measurement Accuracy 410 m + 05.5 × 10° × measurement value (m) Distance Range 002, 0.05, 0.10, 2.0, 5.1, 0.2, 0.5, 1.00 dB/driv Distance Range 40 m + 0000, 0.00, 1.0, 2.0, 5.1, 0.2, 0.5, 0.10 dB/driv Sampling Resolution (IOR = 1.500000) 100 km, 5000 km to 12,000 km (m 5000 km to 20,000 km for 5000 km steps) Sampling Resolution (IOR = 1.500000) 10 m Average Times 2* to 2° Lor Settings 1.300000 to 1.700000 (0,000001 steps) Monitor Output 25 to -15 dBm (for OTDR Wavelength Monitor) Real Time Measurement Multiple Trace Display (8 Waveforms max.) Zoom & Shift Loss Calculation: Splice Loss, 2Pt Loss, 2Pt LSA, dB/ km Loss, dB/km LSA, 2Pt & dB/km, 2Pt & dB/km, 2Pt & dB/km LSA File Save formats: GR-196, SR4731 Interface Windows 10 loT Enterprise 2019 LTSC Entry EPKEA Other Functions 84 ints, NAG 1(024 × 768) color LCD with touch pa	Pulse Width		
Name	Optical Output Pow	ver	
Dynamic Range (one way, S/N = 1) See the block diagram on next page) Discentifications Pulse width: 10 µs. Average times: 2", Distance range: 1000 km, Smoothing: On, Ps: −57 dBm @ Pin*1 Paser −20 dBm/nm @ Pin*1			·
March Distance D	Dynamic Range (on	ne way, S/N = 1)	
Dead Zone 0.5 km (Pulse width: 3 µs)	, ,		
10 m ± 0.5 x 10 s x measurement value (m)			
10 m ± 0.5 x 10 s x measurement value (m)	Dead Zone		0.5 km (Pulse width: 3 μs)
Vertical Scale			
Distance Range			This does not include optical fiber refraction index (IOR) based uncertainty.
Sampling Resolution (IOR = 1.50000) 10 m Measurement Time 15 minutes (Distance range: 1000 km, Average times: 2°)	Vertical Scale		0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0, 5.0, 10.0 dB/div
Sampling Resolution (IOR = 1.50000) 10 m	5		With MW90010B-003: 100 km, 500 km to 20,000 km (in 500 km steps)
Measurement Time 15 minutes (Distance range: 1000 km, Average times: 2 ¹⁶) Average Times 2* to 2 ²⁴ Lor Settings 1,300000 to 1,700000 (0,000001 steps) Monitor Output -25 to -15 dBm (for OTDR Wavelength Monitor) Real Time Measurement Multiple Trace Display (8 Waveforms max.) 200m & Shift Loss Calculation: Splice Loss, 2Pt Loss, 2Pt LSA, dB/ km Loss, dB/km LSA, 2Pt & dB/km, 2Pt & dB/km LSA file Save formats: GR-196, SR4731 Internal Memory (350 GB) Print: External printer, Hard copy (file: PDF) Distance Unit: miles, feet, kilofeet, meters, kilometers file Utility: file: Copy, Paste, Delete, Folder: Create new Help function Remote Control Function Remote Control Function OS Windows 10 lot Enterprise 2019 LTSC Entry EPKEA Interface USB (3 ports, REV20, Front 2, Back 1), 10/100/1000M Ethernet, HDMI Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, 10 kg Environmental Conditions Temperature: +10°C to +35°C (perating), -10°C to +50°C (storage) Humidity: <85% RH Vibration: Conforms to MIL-STD-810D EMC 2014/30/EU, EN61326-1, EN61000-3-2 LVD 2014/30/EU, EN61326-1, EN61000-3-2 LVD	Distance Range		100 km, 500 km to 12,000 km (in 500 km steps)
Average Times	Sampling Resolution (IOR = 1.500000)		10 m
1.300000 to 1.700000 (0.00001 steps)	Measurement Time		15 minutes (Distance range: 1000 km, Average times: 216)
Monitor Output	Average Times		28 to 2 ²⁴
Real Time Measurement Multiple Trace Display (8 Waveforms max.) Zoom & Shift Loss Calculation: Splice Loss, 2Pt Loss, 2Pt LSA, dB/km LSA, 2Pt & dB/km, 2Pt & dB/km LSA File Save formats: GR-196, SR4731 Internal Memory (350 GB) Print: External printer, Hard copy (file: PDF) Distance Unit: miles, feet, kilofeet, meters, kilometers File Utility: File: Copy, Paste, Delete, Folder: Create new Help function Remote Control Function Remote Control Function Remote Control Function Remote Control Function Remote State USB (3 ports, REV2.0, Front 2, Back 1), 10/100/1000M Ethernet, HDMI Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Temperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: <63% RH Vibration: Conforms to MIL-STD-810D RoHS 2014/35/EU, ENG1010-1 RoHS 2011/65/EU, (EU) 2015/863, EN IEC 63000: 2018 EEMC S.I. 2016 No.1091, EN 61326-1, ENG1000-3-2 UKCA LVD S.I. 2016 No.1091, EN 61326-1, ENG1000-3-2 IEC 600825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10 Class 1: Optical			1.300000 to 1.700000 (0.000001 steps)
Multiple Trace Display (8 Waveforms max.) Zoom & Shift Loss Calculation: Splice Loss, 2Pt Loss, 2Pt LSA, dB/ km Loss, dB/km LSA, 2Pt & dB/km, 2Pt & dB/km LSA File Save formats: GR-196, SR4731 Internal Memory (350 GB) Print: External printer, Hard copy (file: PDF) Distance Unit: miles, feet, kilofeet, meters, kilometers File Utility: File: Copy, Paste, Delete, Folder: Create new Help function Remote Control Function Windows 10 IoT Enterprise 2019 LTSC Entry EPKEA Interface USB (3 ports, REV2.0, Front 2, Back 1), 10/100/10000M Ethernet, HDMI Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Emperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: <85% RH Vibration: Conforms to MIL-STD-810D CE			-25 to -15 dBm (for OTDR Wavelength Monitor)
Com & Shift			Real Time Measurement
Com & Shift			Multiple Trace Display (8 Waveforms max.)
Other Functions File Save formats: GR-196, SR4731 Internal Memory (350 GB) Print: External printer, Hard copy (file: PDF) Distance Unit: miles, feet, kilofeet, meters, kilometers File Utility: File: Copy, Paste, Delete, Folder: Create new Help function Display 8.4 inch, XGA (1024 × 768) color LCD with touch panel OS Windows 10 IoT Enterprise 2019 LTSC Entry EPKEA Interface USB (3 ports, REV2.0, Front 2, Back 1), 10/100/1000M Ethernet, HDMI Power Suply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Environmental Conditions Temperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: <85% RH			
Other Functions Internal Memory (350 GB) Print: External printer, Hard copy (file: PDF) Distance Unit: miles, feet, kilofeet, meters, kilometers File Utility: File: Copy, Paste, Delete, Folder: Create new Help function Remote Control Function Display 8.4 inch, XGA (1024 × 768) color LCD with touch panel OS Windows 10 IoT Enterprise 2019 LTSC Entry EPKEA Interface USB (3 ports, REV2.0, Front 2, Back 1), 10/100/1000M Ethernet, HDMI Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Environmental Conditions Temperature: +10°C to +35°C (operating), -10°C to +50°C (storage) Humidity: <85% RH Vibration: Conforms to MIL-STD-810D CE LVD 2014/30/EU, EN61326-1, EN61000-3-2 LVD 2014/35/EU, EN61010-1 ROHS 2.1. 2016 No.1091, EN 61326-1, EN61000-3-2 UKCA LVD S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD S.I. 2016 No.1101, EN 61010-1 ROHS S.I. 2012 No.3032, EN IEC 63000: 2018 LEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10			Loss Calculation: Splice Loss, 2Pt Loss, 2Pt LSA, dB/ km Loss, dB/km LSA, 2Pt & dB/km, 2Pt & dB/km LSA
Print: External printer, Hard copy (file: PDF) Distance Unit: miles, feet, kilofeet, meters, kilometers File Utility: File: Copy, Paste, Delete, Folder: Create new Help function Remote Control Function Windows 10 IoT Enterprise 2019 LTSC Entry EPKEA Interface USB (3 ports, REV2.0, Front 2, Back 1), 10/100/1000M Ethernet, HDMI Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Emperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: <85% RH Vibration: Conforms to MIL-STD-810D Humidity: <85% RH Vibration: Conforms to MIL-STD-810D CE			File Save formats: GR-196, SR4731
Distance Unit: miles, feet, kilofeet, meters, kilometers File Utility: File: Copy, Paste, Delete, Folder: Create new Help function Remote Control Function 8.4 inch, XGA (1024 × 768) color LCD with touch panel OS Windows 10 IoT Enterprise 2019 LTSC Entry EPKEA Interface USB (3 ports, REV2.0, Front 2, Back 1), 10/100/1000M Ethernet, HDMI Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Temperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: <85°s RH Vibration: Conforms to MIL-STD-810D CE EMC 2014/30/EU, EN61326-1, EN61000-3-2 LVD 2014/35/EU, EN61306-1, EN61000-3-2 UKCA EMC S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD S.I. 2016 No.1101, EN 61010-1 R0HS S.I. 2012 No.3032, EN IEC 63000: 2018 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10	Other Functions		Internal Memory (350 GB)
File Utility: File: Copy, Paste, Delete, Folder: Create new Help function Remote Control Function Remote Control Function Remote Control Function			Print: External printer, Hard copy (file: PDF)
Help function Remote Control Function			Distance Unit: miles, feet, kilofeet, meters, kilometers
Name			
Display 8.4 inch, XGA (1024 × 768) color LCD with touch panel OS Windows 10 IoT Enterprise 2019 LTSC Entry EPKEA Interface USB (3 ports, REV2.0, Front 2, Back 1), 10/100/1000M Ethernet, HDMI Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Temperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: <85% RH Vibration: Conforms to MIL-STD-810D EMC 2014/30/EU, EN61326-1, EN61000-3-2 CE LVD 2014/35/EU, EN61010-1 RoHS 2011/65/EU, (EU) 2015/863, EN IEC 63000: 2018 UKCA LVD S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD S.I. 2016 No.1091, EN 61010-1 RoHS S.I. 2016 No.1091, EN 61010-1 RoHS S.I. 2016 No.1010, EN 61010-1 CLASS 1: Optical Output Port, Monitor Port 2014 CLASS 1: Optical Output Port, Monitor Port			
OS Windows 10 IoT Enterprise 2019 LTSC Entry EPKEA Interface USB (3 ports, REV2.0, Front 2, Back 1), 10/100/1000M Ethernet, HDMI Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Temperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: «85% RH Vibration: Conforms to MIL-STD-810D Environmental Conditions EMC 2014/30/EU, EN61326-1, EN61000-3-2 LVD 2011/65/EU, (EU) 2015/863, EN IEC 63000: 2018 EMC S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 UKCA LVD S.I. 2016 No.1091, EN 61010-1 RoHS S.I. 2012 No.3032, EN IEC 63000: 2018 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10			
Diterface	Display		·
Power Supply 100 VAC to 120 VAC/200 VAC to 240 VAC, 50 Hz to 60 Hz, ≤300 VA Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Temperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: <85% RH			
Dimensions and Mass 320 (W) × 177 (H) × 451 (D) mm, ≤10 kg Temperature: +10°C to +35°C (operating), −10°C to +50°C (storage) Humidity: <85% RH	Interface		USB (3 ports, REV2.0, Front 2, Back 1), 10/100/1000M Ethernet, HDMI
Temperature: +10°C to +35°C (operating), -10°C to +50°C (storage) Humidity: <85% RH Vibration: Conforms to MIL-STD-810D			
Environmental Conditions Humidity: <85% RH Vibration: Conforms to MIL-STD-810D EMC 2014/30/EU, EN61326-1, EN61000-3-2 CE LVD 2011/65/EU, EN61010-1 RoHS 2011/65/EU, (EU) 2015/863, EN IEC 63000: 2018 UKCA EMC S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD S.I. 2016 No.1101, EN 61010-1 RoHS S.I. 2012 No.3032, EN IEC 63000: 2018 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10	Dimensions and Mass		320 (W) × 177 (H) × 451 (D) mm, ≤10 kg
Vibration: Conforms to MIL-STD-810D	Environmental Conditions		Temperature: +10°C to +35°C (operating), -10°C to +50°C (storage)
CE EMC 2014/30/EU, EN61326-1, EN61000-3-2 LVD 2014/35/EU, EN61010-1 ROHS 2011/65/EU, (EU) 2015/863, EN IEC 63000: 2018 LWCA EMC S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD S.I. 2016 No.1101, EN 61010-1 ROHS S.I. 2012 No.3032, EN IEC 63000: 2018 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10			Humidity: <85% RH
CE LVD 2014/35/EU, EN61010-1 ROHS 2011/65/EU, (EU) 2015/863, EN IEC 63000: 2018 LWCA EMC S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD S.I. 2016 No.1101, EN 61010-1 ROHS S.I. 2012 No.3032, EN IEC 63000: 2018 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10			Vibration: Conforms to MIL-STD-810D
RoHS 2011/65/EU, (EU) 2015/863, EN IEC 63000: 2018 EMC S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD S.I. 2016 No.1101, EN 61010-1 ROHS S.I. 2012 No.3032, EN IEC 63000: 2018 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10		EMC	2014/30/EU, EN61326-1, EN61000-3-2
UKCA EMC S.I. 2016 No.1091, EN 61326-1, EN61000-3-2 LVD S.I. 2016 No.1101, EN 61010-1 ROHS S.I. 2012 No.3032, EN IEC 63000: 2018 Laser Safety Level*2 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10	CE	LVD	
UKCA LVD S.I. 2016 No.1101, EN 61010-1 RoHS S.I. 2012 No.3032, EN IEC 63000: 2018 Laser Safety Level*2 Laser Safety Level*2 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10		RoHS	
RoHS S.I. 2012 No.3032, EN IEC 63000: 2018 IEC 60825-1: 2014 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10		EMC	
Laser Safety Level*2	UKCA	LVD	S.I. 2016 No.1101, EN 61010-1
Laser Safety Level*2 CLASS 1: Optical Output Port, Monitor Port 21CFR1040.10		RoHS	S.I. 2012 No.3032, EN IEC 63000: 2018
Laser Safety Level ²² 21CFR1040.10	Laser Safety Level*2		IEC 60825-1: 2014
21CFR1040.10			CLASS 1: Optical Output Port, Monitor Port
Excludes deviations caused by conformance to Laser Notice No.56 dated May 8, 2019	Laser Salety Level**	-	21CFR1040.10
			Excludes deviations caused by conformance to Laser Notice No.56 dated May 8, 2019

- *1: Ps: Maximum backscatter level at the input [dBm]
 Pase: ASE level at the input [dBm]
- *2: Safety measures for laser products
 This product complies with optical safety standards in
 21CFR1040.10 and IEC 60825-1; the following descriptive labels are

affixed to the product.

CLASS 1 LASER PRODUCT

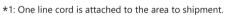


Ordering Information

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.

		,
Model/Order No.	Name	
	Main Frame	
MW90010B	Coherent OTDR	
	Standard Accessory	
	Power Cord*1:	1 pc
B0329G	Front Cover:	1 pc
Z2167A	MW90010B Operation Manual (CD-R):	1 pc
	Standard Connector*2	
MW90010B-037	FC Connector	
MW90010B-040	SC Connector	
	Software Options	
MW90010B-003	Extended Measurement Distance	
	Warranty Service	
MW90010B-ES210	2 Years Extended Warranty Service	
MW90010B-ES310	3 Years Extended Warranty Service	
MW90010B-ES510	5 Years Extended Warranty Service	
	Application Parts	
NETWORKS	Emulation Software (Version 4.1 or newer)	
B0335C	Carrying Case	
J0617B	Replaceable Optical Connector (FC-PC)	
J1411A	Replaceable Optical Connector (SC)	
J0057	Optical Adapter FC type	
J0635*3	Optical Fiber Cord with FC-PC at both ends	
	(SM, with FC-PC at both ends)	
J0952A	FC · PC-FC · APC(SG)-1M-SM	
Z0914A	Ferrule Cleaner	
Z0915A	Replacement Reel for Ferrule Cleaner (6 pcs/set)	
Z0284	Adapter Cleaner (Stick type, 200 pcs/set)	
Z0397A*4	FC Adapter Cap	
Z0413A*4	SC Adapter Cap	



^{*2:} Required option



Carrying Case B0335C

Specify the optical connector type. The same type of connector will be supplied for the optical output port, optical input port, and optical monitor port. *3: Specify the optical fiber length as A, B or C (A: 1 m, B: 2 m, C: 3 m)

^{*4:} Monitor Output Port optical connector cap. Specify exchangeable optical connectors (J1411A and J0617B) as a pair.

Network Master Pro MT1040A

Metwork Master 🔤

100G Multirate Module 400G Multirate Module MU104011A MU104014A

The Network Master Pro MT1040A supporting 400G is a portable tester for evaluating the quality of various communication networks ranging in speeds from 10 Mbps to 400 Gbps. Installing two 400G measurement modules supports simultaneous dual-port 400G

900

OTDR Module 1310/1550 nm SMF
OTDR Module 1310/1550/850/1300 nm SMF/MMF
OTDR Module 1310/1550/1625 nm SMF
MU100021A
OTDR Module 1310/1550/1650 nm SMF
MU100023A
MU100023A
MU100023A



Installing one of the MU100020A/MU100021A/MU100022A/MU100023A OTDR modules in the MT1040A facilitates all-in-one OTDR, light-source, optical-power and visible-light-source measurement and testing required for optical fiber I&M. Furthermore, simultaneous installation of either the MU104011A or MU104014A supports both OTDR and Ethernet measurement using one MT1040A.

Optical Spectrum Analyzer MS9740B

The MS9740B optical spectrum analyzer is for signal evaluations requiring wide dynamic range and high resolution, such as OSNR analysis of WDM signals.

It has two bundled EDFA analysis applications: an Opt. Amp application, and an Opt. Amp (Multi-channel) application supporting WDM signals and the latest IEC standard.



Light Source/Optical Power Meter CMA5 Series

For optical fiber installation and maintenance.



ACCESS Master MT9085 Series

For WAN/MFH/DCI/FTTH Optical Fiber I&M

- Improved operability with powerful synergy of 8-inch touchscreen and hardware keys
- At-a-glance Pass/Fail evaluation using Fiber Visualizer
- All OTDR, OLTS, and Visible Light Source operations on one screen
- Short event dead zone of ≤0.8 m and high dynamic range of 46 dB max.
- Power meter option for measuring optical power up to +30 dBm





Телефон: +7 (499) 685-4444

info@4test.ru www.4test.ru

