







Product Launch Plan

Size, Simplicity & Value without Compromise



Meet FiberMASTER



One of the world's smallest OTDRs with performance verified by GHMT (German testing laboratory) at an incredible price. Available in a full range of models, with accessories to build a complete fibre optic testing solution.





4. FiberMASTER Product Tour

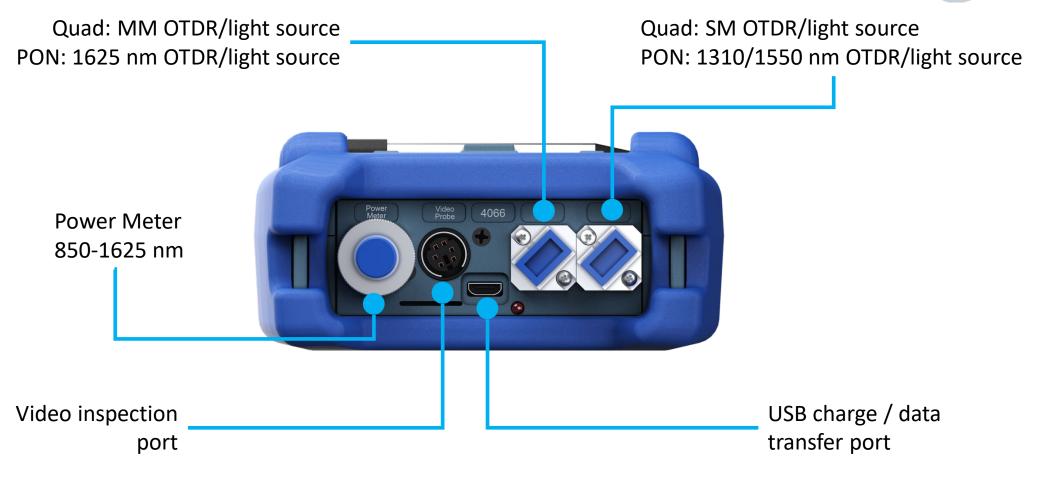


* Quad light source does not include power meter port

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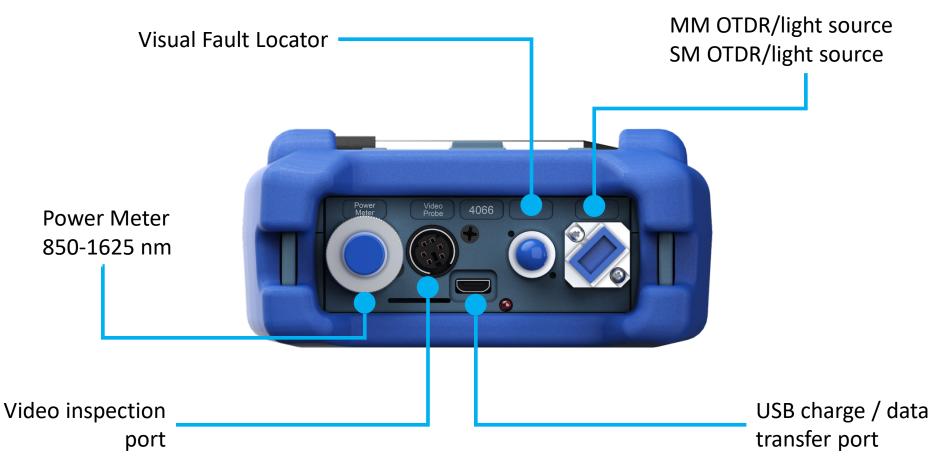


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MM OTDR / SM OTDR



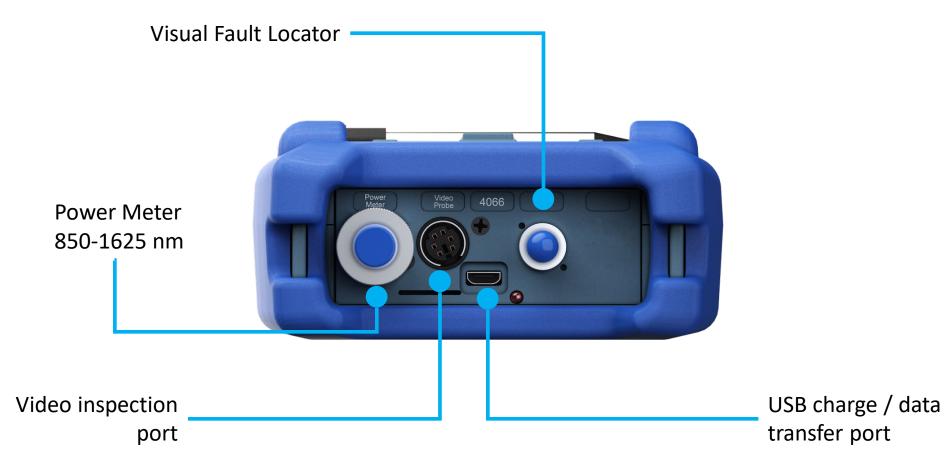


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4. FiberMASTER Product Tour





Depend On Us



Kits include:

- Hard carry case (except for PM & LS)
- SC-SC & SC-LC jumpers
 - MM/SM depending on product
- 2.5/1.25mm cleaning pens
- LC/SC/ST/FC/ 2.5mm/1.25mm power meter adapters
- 2 x stylus
- Universal power adapter
- USB cable











- Video Inspection Probe
- 240x magnification
- Manual focus
- Auto image centering on tester
- Auto Pass/Fail inspection to IEC 61300-3-30
- Comes with 2.5mm and 1.25mm connector tips
- Tips for panel/bulkhead inspection available separately

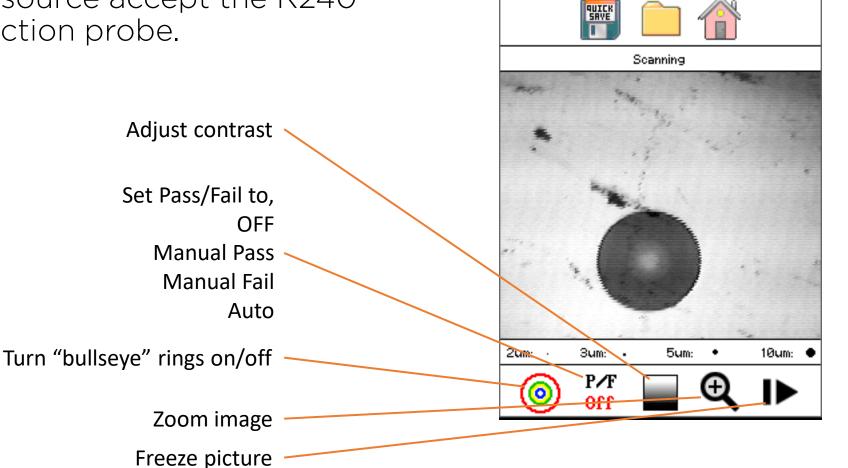
Depend On Us



12. Video Inspection Probe



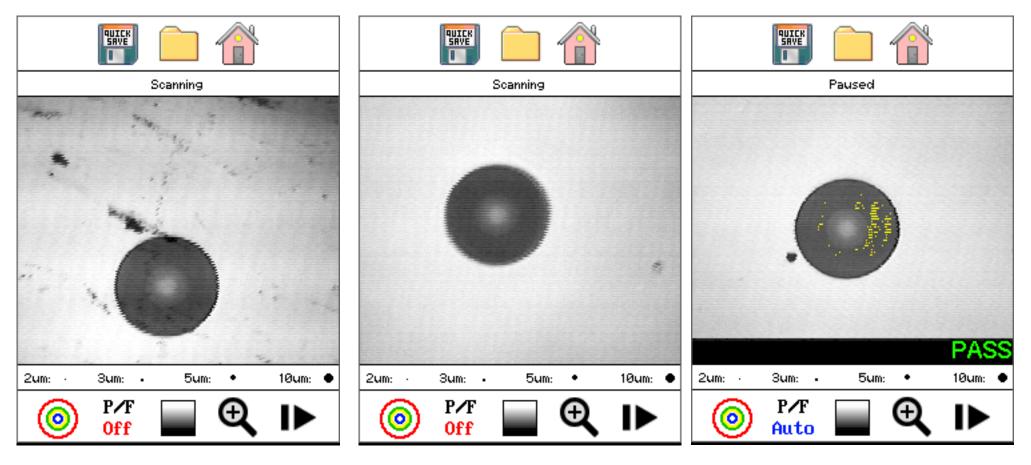
• All models, including power meter and light source accept the R240-VIP inspection probe.





Video Inspection Probe





Dirty connector

Clean connector P/F Off Clean connector P/F Auto

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FiberMASTER Models/SKUs

- R240-QIP
 - Quad OTDR: 850 / 1300 / 1310 / 1550 nm
 - Inspection port
 - Power Meter: 850 1625 nm
- R240-MIPV
 - Multimode OTDR: 850 / 1300 nm
 - Inspection port
 - Power Meter: 850 1625 nm
 - Visual Fault Locator
- R240-SIPV
 - Single-mode OTDR: 1310 / 1550 nm
 - Inspection port
 - Power Meter: 850 1625 nm
 - Visual Fault Locator
- R240-PIP
 - PON OTDR 1310 / 1550 / 1625nm
 - Inspection port
 - Power Meter: 850 1625 nm

- R240-PMIV
 - Power Meter: 850 1625 nm
 - Inspection Port
 - Visual Fault Locator
- R240-LSIV
 - Light Source: 850 / 1300 / 1310 / 1550 nm
 - Inspection port
 - Visual Fault Locator
- R240-PMLS
 - R240-PMIV + R240-LSIV
- R240-VIP
 - Video Inspection Probe



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Target Markets for FiberMASTER



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| LAN / Enterprise | WAN | Other |
|---|---|--|
| Office spaceGovernment | Internet Service Providers | Industrial networks/plants |
| Education | Cable TV providersMobile telecom | • Military • Marine |
| TransportationRetail | providers | Tidiffic |
| | Local government CCTV/traffic control | |

• State government

- highway

management



Target Customers for FiberMASTER



Installers/Contractors Cabling

- contractors
- Electrical/low voltage contractors
- Cellular infrastructure installers

 Enterprise network owners

End Users

- Telecom network operators
- Utility companies with own telecom
- Rail operators with cabling on right of way
- Transportation (airport) operators

Other

- Shipbuilders
- Cable assembly houses



Key Attributes



Physical

- Small size, one of the smallest OTDRs on the market
- Instant turn-on time
- Long battery life and can charge from a USB power bank
- Protected connectors
- Family design, carries TREND branding forward

Performance

- High dynamic range
- Good dead zones
- Excellent performance for short (1 min) test times
- Excellent distance accuracy (GHMT verified)
- Trace, schematic, and event map views included free (no Exfo licenses)

Other

- Easy to use for enterprise customers
- Low cost!
- Automatic/manual setup & operation
- Power meter on every model
- PON model for 1:32 and 1:64 splitters
- Includes hard carry case
- Free PC software no licenses
- Files in standard Bellcore format for universal use



Specifications Summary



| Specification | FiberMASTER | Fluke Optifiber Pro | OTDR II/Exfo Max 720 | AFL Flexscan FS-300 |
|---|---|---|---|---|
| Attenuation dead zone | 5m MM/SM | 2.5m MM / 3.6m SM | 2.5m MM / 3.5m SM | 3m MM / 3.5mm SM |
| Event dead zone | 1m MM/SM | 0.5m MM/0.6m SM | 0.5m MM / 0.7 SM | 0.8m MM / 0.8m SM |
| Dynamic ranges 850/1300/1310/1550 | 26/27/38/37 | 28/30/32/30 | 27/29/36/35 | 27/29/37/36 |
| Approx. Distance (Fibre only, no connections/splices) | 8.7km @ 850nm 27km @ 1300nm 38km @ 1310nm 185km @ 1550nm | 9.3km @ 850nm 30km @ 1300nm 38km @ 1310nm 150km @ 1550nm | 9km @ 850nm 29km @ 1300nm 36km @ 1310nm 175km @ 1550nm | 9km @ 850nm 29km @ 1300nm 37km @ 1310nm 180km @ 1550nm |
| Sampling points | Up to 64,000* | Up to 64,000 | Up to 256,000 | Up to 300,000 |
| Min Resolution | 12.5cm / 5in* | 3cm / 1.18in | 4cm / 1.57in | 5cm / 1.97in |
| Quad List Price USD | \$3,995 | \$11,437 | \$10,725 | \$7,995 |
| Quad List Price GBP | £2,895 | £9,611 | £8,850 | £5,517 |
| Quad List Price Euro | €3,395 | €9,240 | €10,090 | €6,718 |

* Software update in progress to increase to 128,000 points, reducing resolution to 5cm/1.97"

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Launch Cable Accessories



R240-ML-SCSC: 150m multimode SC/UPC-SC/UPC R240-ML-SCLC: 150m multimode SC/UPC-LC/UPC R240-SL-SCSC: 150m single-mode SC/UPC-SC/UPC R240-SL-SCLC: 150m single-mode SC/UPC-LC/UPC R240-SL-SCSC-A: 150 single-mode SC/APC-SC/APC TREND NETWORKS TREND NETWORKS TREND NETWORKS unch Cable aunch Cable unch Cable Caution Caution Caution TREND NETWORKS TREND NETWORKS Do Not Look Directly Into Not Look Directly Into ak Directly Into Do Not Look Directly Inte

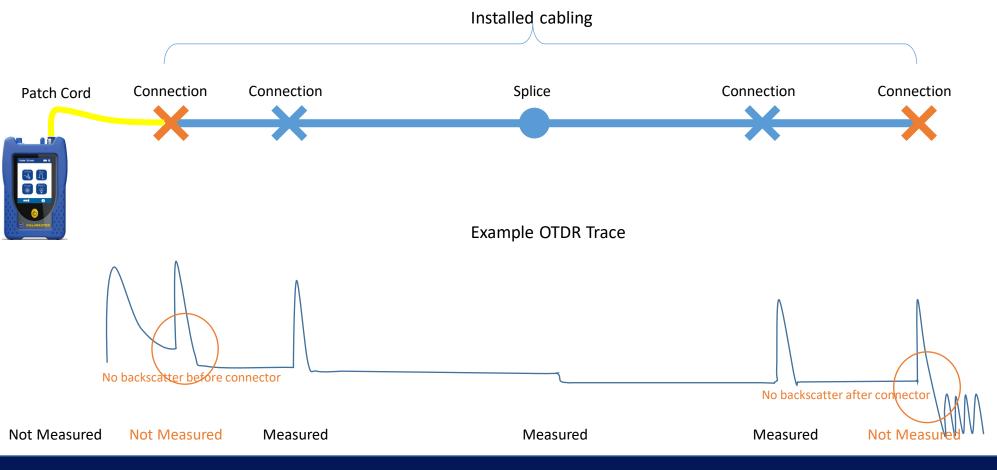
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Launch & Tail Cords



- Why use launch and tail cords?
 - To measure the loss of the first and last connections of a system
 - Without them, the first/last connector condition is unknown



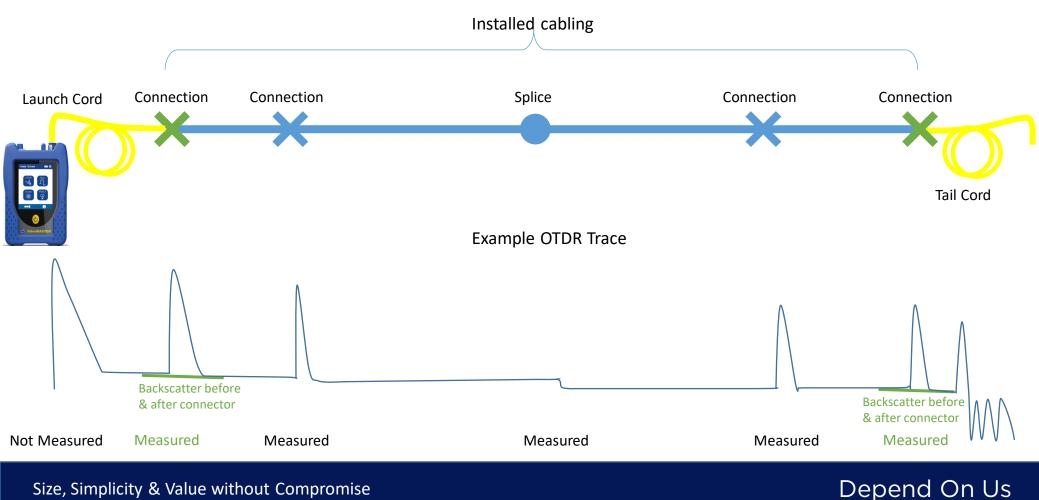
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Launch & Tail Cords



• When launch/tail cords are used the complete installed cabling system can be qualified.





Brochure



Why do I need a FiberMASTER?

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It depends how important speed and accuracy are to you.

FiberMASTER - size, simplicity and value without compromise, made in the USA, tested in Germany.

The new FiberMASTER series of fibre optic testers will make it easier and faster to verify, troubleshoot and certify fibre optic cabling. The OTDR, PON OTDR, Power Meter and Light Source, and Inspection Probe will enable cabl Installers to get the dependable test results lavaring tasking As one of the smallest OTDRs in the World you will find them easier to carry and operate whilst the ruggedised housing will protect your investment.

The simplified setup options makes them easy to use, saving you time on training and reducing the likelihood of errors.

Our New York Research and Development centre of excellence has over 30 years experience designing OTDRs providing you with the most advanced, compact optical test systems available.

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Test, Troubleshoot and Certify cabling faster with the FiberMASTER OTDR

Accurate
 Fast

and troubleshooting alike. The software

meet TIA/ISO/IEC/IEEE requirements

simplifies certification of cabling to

 The FiberMASTER OTDR is available in 4 options, Quad, multimode, singlemode and PON.
 with simple pass/fail results.

 Additionally custom test parameters are easily set to accommodate any

 mode and PON.
 are easily set to accommodate any application.

 The OTDRs feature both high dynamic range and small dead zones providing
 OTDRs can be complicated to configure and achieve accurate resu

OIDRs can be complicated to configure and achieve accurate results. FiberMASTER automates testing and steps you through the process as shown below.

Simple

All

FIberMASTER

TDRs support the

Fiber Inspection

Probe

For FTTx/FTH applications the PON OTDR identifies split ratios for easy testing and troubleshooting of inactive and active networks. The 1825nm wavelength allows in-service testing of networks without interrupting existing subscribers.

TDR Limits

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Hanual

OTDR Setup QUAD OTDR OTDR Setup Multi-Mode Mode Single-Mode Manual 1310 1550 1 \checkmark . \checkmark Home screen Select the wavelength(s) Select mode

Select the application

100G-SR10 0H3

16-LX SM

186-LX4 SH

10G-E SM



Events and event type OTDR trace shown 1 shown with clear pass/fail detailed analysis result for each

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Power Meter (PM) and Light Source (LS)

The power meter / light source is used to measure attenuation in multimode or single-mode cabling.

The power meter's high dynamic range also allows troubleshooting of LAN and Telecom networks. Both the power meter and light source support the fiber inspection probe to capture images of the connector on each end of the cabling.

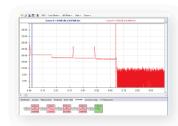
All OTDRs include a power meter and when partnered with a FiberMASTER light source, the OTDR can be used to directly measure cable attenuation or to measure the output power of optical equipment for troubleshooting.

Key Features

- ORL measurement range to -60 dB
- 82 dB power meter dynamic range
- Compatible with the auto-centring/Pass/Fail video probe
- · Auto test up to three wavelengths
- Auto wavelength switching
- Universal power meter and light source adapters
- Storage up to 40,000 tests
- · Bright colour display
- Rechargeable lithium battery



Project reporting and documentation is fast and easy with the free CertSoft PC reporting software. Reports can include trace graphs, schematic and table analysis, power meter results and connector images.



Specifications

| Distance Uncertainty Verified by GHMT* laboratories Sampling Points Up to 128,000 Storage Approx 40,000 results | OTDR | |
|---|----------------------|--|
| Dead Zones Im Event, Sm Attenuation Resolution 6 cm - 16 m / 2 in - 62 ft Distance Uncertainty ±(0.75m + 0.005% x distance + sampling r Verified by 0+HY* laboratories Sampling Points Up to 128.000 Storage Approx 40,000 results Size/Weight 170 mm (6.2 in) 108 mm (4.2 in) x 81 mm (2 730 g (1.6 lbs) Power Meter Wavelength BS0, 1300, 1310, 1490, 1850, 1825 nm Measurement Range +5 to -77 dBm 1 0.03 dB dB r6m to to 68 dB/m, ± 0.036 dB r6m to to 68 dB/m, ± 0.036 dB r6m to 77 dBm Resolution 0.01 dB | Wavelength | 850, 1300, 1310, 1550, 1625 nm |
| Non-reference Resolution 6 cm 16 m / 2 ln - 82 ft Distance Uncertainty \$(0.75m + 0.005% x distance + sampling r Verified by 0HMT* laboratories Sampling Points Up to 128,000 Storage Approx 40,000 results Size/Weight 170 mm (62 in) 108 mm (42 in) x 81 mm (2 730 g (16 lbs) Power Mater Storage Wavelength 850, 1300, 1310, 1490, 1550, 1825 nm Uncertainty *5 to -77 dBm Uncertainty = 0.18 dB reference conditions = 0.28 dB r/mm of conditions = 0.38 dB - 65 to -77 dBm Resolution 0.01 dB | Dynamic Range (dB) | 29/30 MM, 38/37 SM, 37/37/36 PON |
| Distance Uncertainty \$\left(0.75m ± 0.005K x distance + sampling r Verffled by 0HMT* laboratories Sampling Points Up to 126,000 Storage Approx 40,000 results Size/Weight Top mr (6.7 ln) 08 mm (4.2 ln) x 81 mm (2.7 mg (6.7 ln) 08 mm (4.2 ln) x 81 mm (2.7 mg (6.7 ln) 08 mm (4.2 ln) x 81 mm (2.7 mg (6.7 ln) 08 mm (4.2 ln) x 81 mm (2.7 mg (6.7 ln) 08 mm (4.2 ln) x 81 mm (2.7 mg (6.7 ln) 08 mm (4.2 ln) x 81 mm (2.7 mg (6.7 ln) 08 mm (4.2 ln) x 81 mm (2.7 mg (6.7 ln) 08 mm (4.2 ln) x 81 mm (2.7 mg (6.7 ln) 08 mm | Dead Zones | 1m Event, 8m Attenuation |
| Distance Uncertainty verified by GHMT* laboratories Sampling Points Up to 128,000 Storage Approx 40,000 results Size/Weight 730 g (1.6 lbs) Connector SC included PC, ST optional Power Meter Wavelength 450,730 g (1.6 lbs) 950,1300,1310,1490,1850,1825 nm Uncertainty 450,730 dbs,1310,1490,1850,1825 nm Uncertainty 636 db from 5 to +68 dbm, 1 + 0.38 db from 5 to +68 dbm, 2 + 0.38 dbm, 2 + 0.38 db from 5 to +68 dbm, 2 + 0.38 db from 5 to | Resolution | 6 cm - 16 m / 2 in - 52 ft |
| Storage Approx 40,000 results size/Weight 170 mm (87 in) 108 mm (42 in) x 81 mm (2730 g (1.6 lbs) Connector 8C included, PC, ST optional Power Meter Wavelength 850, 1300, 1310, 1490, 1550, 1625 nm Maxelength 850, 1300, 1310, 1490, 1550, 1625 nm Uncertainty +5 to -77 dBm ± 0.35 dB from 10 to -85 dBm ± 0.35 dB from 10 to -85 dBm ± 0.35 dB rom 10 to -85 dBm ± 0.35 dB +05 to -77 dBm scolution 0.01 dB | Distance Uncertainty | ±(0.75m + 0.005% x distance + sampling res Verified by GHMT® laboratories |
| 170 mm (6.7 in) 108 mm (4.2 in) x 81 mm (2.730 g (1.6 lbs) Size/Weight 170 mm (6.7 in) 108 mm (4.2 in) x 81 mm (2.730 g (1.6 lbs) Connector 8C included, PC, ST optional Power Meter 850, 1300, 1310, 1490, 1850, 1625 nm Wavelength 850, 1300, 1310, 1490, 1850, 1625 nm Measurement Range +5 to 7.7 dBm 10.8 dB reference conditions ± 0.38 dB reference conditions ± 0.38 dB refs to -77 dBm Resolution 0.01 dB | Sampling Points | Up to 128,000 |
| Size/Weight 750 g (1.6 bc) Connector SC included, FC, ST optional Power Mater Wavelength B50, 1300, 1310, 1490, 1850, 1825 nm Measurement Range +5 to -77 dBm Uncertainty 2 0.08 dB reference conditions ± 0.03 dB +05 to -77 dBm Resolution 0.01 dB | Storage | Approx 40,000 results |
| Power Meter Wavelength 850, 1300, 1310, 1490, 1850, 1625 nm Measurement Range +5 to -77 dBm Uncertainty ± 0.16 dB reference conditions ± 0.35 dB rom 0 to -86 dBm, ± 0.36 dB rom 0 to -86 dBm, ± 0.36 dB -65 to -77 dBm Resolution 0.01 dB | Size/Weight | 170 mm (6.7 in) 108 mm (4.2 in) x 51 mm (2.0 730 g (1.6 lbs) |
| Wavelength 850, 1300, 1310, 1490, 1550, 1625 nm Measurement Range 45 to -77 dBm Uncertainty ± 0.16 dB reference conditions ± 0.26 dB from 0 to -86 dBm, ± 0.36 dB -66 to -77 dBm Resolution 0.01 dB | Connector | SC included. FC, ST optional |
| Measurement Range +5 to -77 dBm ± 0.18 dB reference conditions ± 0.28 dB from 0 to -86 dBm, ± 0.38 dB from 0 to +64 dBm ± 0.38 dB +66 to -77 dBm Resolution 0.01 dB | Power Meter | |
| ± 0.18 dB reference conditions ± 0.28 dB from 0 to +86 dBm, ± 0.38 dB from 0 to +86 dBm, ± 0.38 dB +68 to -77 dBm Resolution 0.01 dB | Wavelength | 850, 1300, 1310, 1490, 1550, 1625 nm |
| Uncertainty ± 0.25 dB from 0 to -65 dBm, ± 0.35 dB from 0 to +65 dBm ± 0.35 dB -65 to -77 dBm Resolution 0.01 dB | Measurement Range | +5 to -77 dBm |
| | Uncertainty | ± 0.25 dB from 0 to -65 dBm, ± 0.35 dB from 0 to +5 dBm |
| Connectors LC/SC/FC/ST/2.5mm/1.25mm included | Resolution | 0.01 dB |
| | Connectors | LC/SC/FC/ST/2.5mm/1.25mm included |
| | | |

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6

rting Software



Sapphire

Complete protection for your FiberMASTER

The Sapphire Care Plan is designed to help minimize down time, reduce the cost of ownership and protect against unforeseen repair bills.

Pass

Free Annual Calibration

Free Repairs

Free Loan Unit During Repairs and Calibration Free Online Training and Technical Support Free Shipping

Free Replaceable Wear Parts

Every year choose two of the following accessories:

- R240-ML-SCSC Launch cable OM4 150m SC-SC
- R240-ML-SCLC Launch cable OM4 150m SC-LC
- · R240-SL-SCLC Launch cable SM G.657 A1150m SC-LC
- R240-SL-SCSC Launch cable SM G.657 AI 150m SC-SC
- R240-SL-SCSC-A -Launch cable SM G.657 A1150m SC-SC APC

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- 33-963-10 One-click fiber cleaner STC-TC 2.5mm
- 33-963-11 One-click fiber cleaner STC-FC 1.25mm

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asure Fiber Inspection Probe with Automatic Certification to bling. IEC61300-3-35 Standard

USB interface

On-board help feature

One hand operation

• 150x and 300x zoom level

Automatic image positioning

CertSoft free reporting software

· Pass/Fail to IEC61300-3-35 Standard

Stores images in FiberMASTER testers

Attach images to OTDR / Power Meter test report

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Wide range of connector adapters available

90% of all fiber optic cable and network issues arise from dirty and/or damaged fiber connectors which is why the Fiber Inspection Probe is an essential piece of equipment for any fiber cable installer or technician.







Depend On Us



- Sapphire: 1-3 years and includes,
 - Extended warranty
 - Loaner tester
 - Free two-way shipping
 - Annual calibration
 - Annual consumables (cleaning pens or launch cords)
 - Virtual training
- Extended Warranty: 2 years
 - Extended warranty only



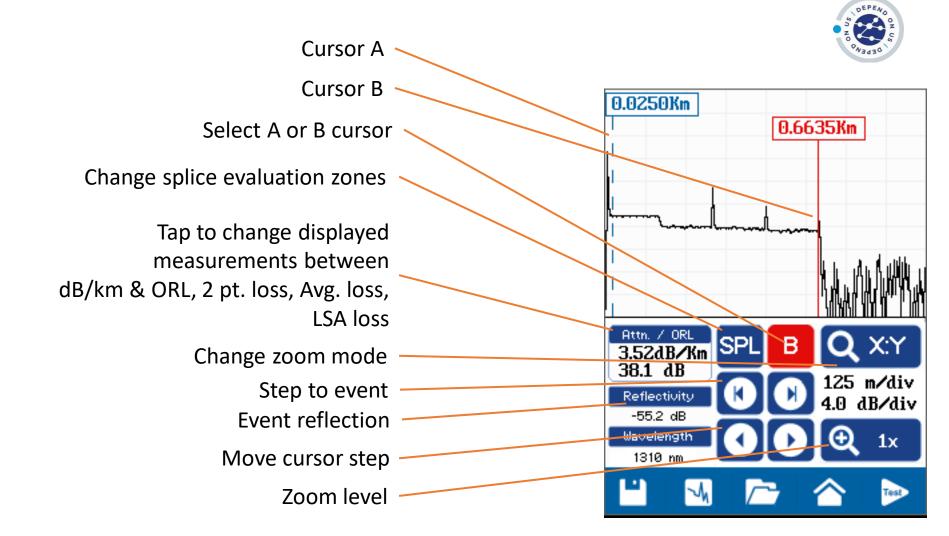
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Sapphire Care Plan/

Extended Warranty



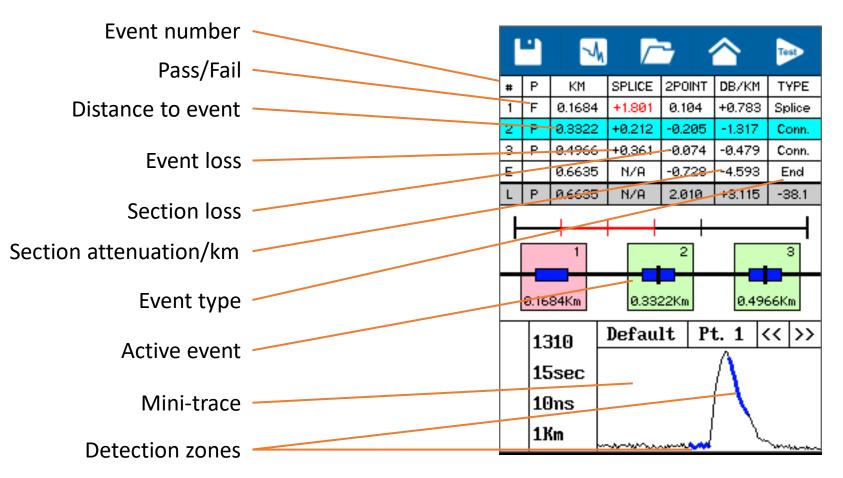
Trace screen





Event Table + Map

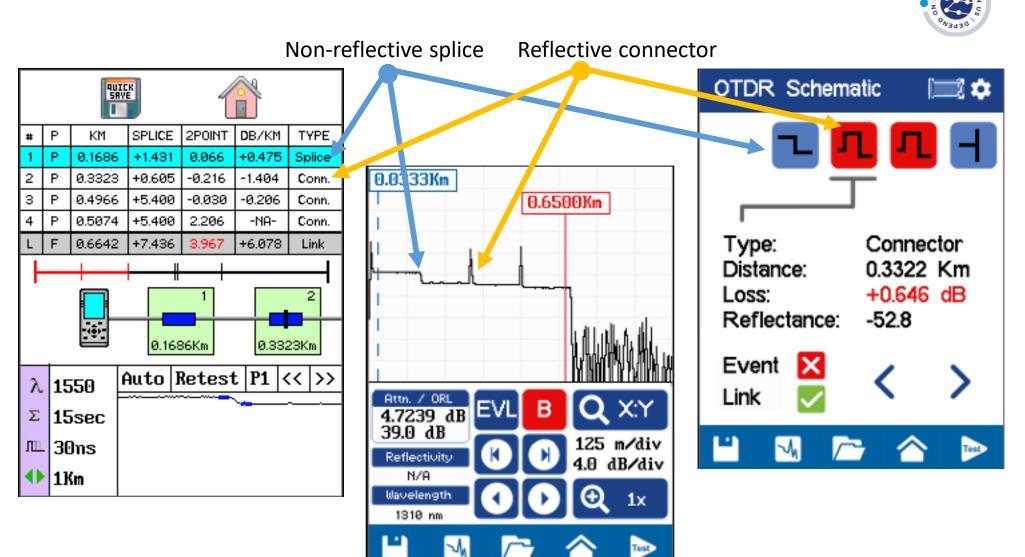




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Event types on Table, trace and link schematic



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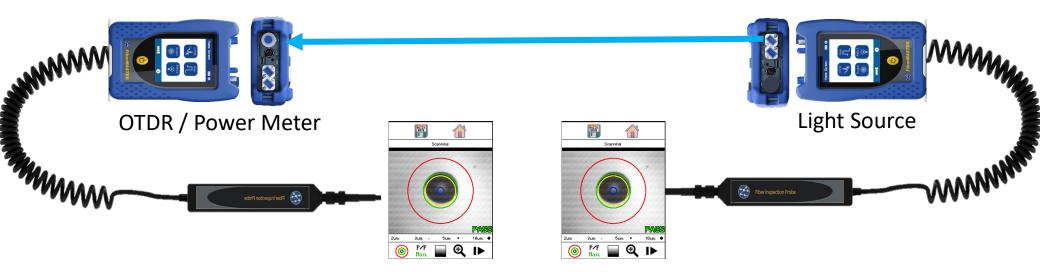
Power Meter / Light Source Testing

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10. PM/LS, Single Fibre

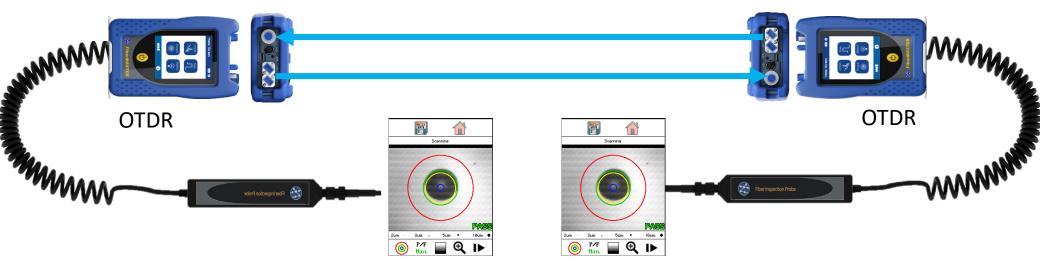
- Power Meter / Light Source
- dB loss of one Fibre in a single direction
 - Using an OTDR and a Light source
- dB loss at two wavelengths, stored as two different tests
 - Power meter auto-detects wavelength of power meter, but can only take one measurement at a time
- Length <u>cannot</u> be measured with the PM/LS
- Connector inspection at both ends
- 1-Jumper reference supported for LC/SC/FC/ST connections







- Power Meter / Light Source
- dB loss of two Fibers in a single direction
 - Using two OTDRs
- dB loss at two wavelengths, stored as two different tests
 - Power meter auto-detects wavelength of power meter, but can only take one measurement at a time
- Length <u>cannot</u> be measured with the PM/LS
- Connector inspection at both ends
- 1-Jumper reference supported for LC/SC/FC/ST connections





PM/LS Dual Fibre



PM/LS Loopback

- Power Meter / Light Source
- dB loss of one Fibre in a single direction
 - Using one OTDR
- dB loss at two wavelengths, stored as two different tests
 - Power meter auto-detects wavelength of power meter, but can only take one measurement at a time
- Length <u>cannot</u> be measured with the PM/LS
- Connector inspection at both ends
- 1-Jumper reference supported for LC/SC/FC/ST connections





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View Trace



| 🗅 🦪 🖪 🛗 🛙 | | | le ▼ dBOff nts\CertSoft v2\ | set - Units | ✓ Zoom ✓ | 0 1 1 0 | | | | | | | |
|--|---|---|--|---|---|--|--------|---------------------|---------------|------------------------|------------------|--------------|-----------------|
| Folder Name [BACK] | | | pate Pat | | | Optical Time Doma 36.00 - 32.00 - | | r A = 1.467 dB a | t 0.1678 Km | Cur | sor B = 0.787 dB | at 0.3322 Km | Zoom: X/Y |
| File Name 15s 10ns.sor Dual 2_13.sor Dual 2_15.sor dual WL.no 0_13.sor single 1310.sor single 1550.sor | Date 10/4/2021 10/4/2021 10/4/2021 10/4/2021 10/4/2021 | Range 1 km 1 km 1 km 1 km 1 km 1 km | Wavelength 1310 nm 1310 nm 1550 nm 1310 nm 1310 nm 1550 nm | Pulse Width 10 ns 10 ns 10 ns 10 ns 10 ns 10 ns | Pass/Fail Pass Fail Fail Pass Pass Pass | 28.00 24.00 16.00 12.00 8.00 4.00 0.00 | 0.10 | 0.21 0.3 | - I | | 0.62 0.7 | 2 0.82 | |
| | | | | | | | | rements Thresho | L Event Table | | | | |
| | | | | | | Event ID | Pass/F | | Event Loss | Schematic Connect | Attenuation | Reflectance | Туре |
| | | | | | | Span 0 - 1 | | 0.1678 Kn | 1 | 0.0480 dB | 0.316 dB/Km | | Span |
| | | | | | | Event 1 | Fail | 0.1678 Kn | n 1.467 dB | | | | Splice |
| | | | | | | Span 1 - 2 | | 0.1644 Kn | ı | -0.1640 dB | -1.099 dB/Km | | Span |
| | | | | | | Event 2 | Fail | | 0.756 dB | | | -55.2 dB | Connector |
| | | | | | | Span 2 - 3 | | 0.1644 Kn | | -1.0050 dB | -7.229 dB/Km | | Span |
| | | | | | | Event 3 | Pass | | 0.236 dB | | | -53.4 dB | Connector |
| | | | | | | Span 3 - 4 | | 0.1662 Kn | ' Ever | t ^{0.6200} dB | -4.121 dB/Km | | Span |
| | | | | | | Event 4 | | 0.6628 Kn | | | | -72 dB | End (Reflection |

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Sample Report - TIA Limit

والبرا والمرقان المراور أواره

0.82

0.93

0.72

0.62



TREND NETWORKS

OTDR Certification Report

| Customer: | |
|-----------------------------------|---------------------------------------|
| Test Date: 10/8/2021 6:51:00 AM | Operator: Dan B |
| Model Number: FTE-7100-QUAD-VP-PM | Fiber Type: Single Mode |
| Serial Number: Power Meter | Cable Type: ISP |
| Version: 0.0.1.8 Cal Date: 0/0/0 | Test Standard: ANSI/TIA 568.3-D: 2019 |
| Cable ID: Floor 1-Floor 10 | Location From: Main Cross Connect |
| Fiber ID: 06 | Location To: Floor 10 ISF |

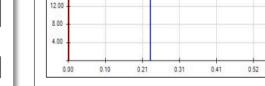
Trace Parameters

| _ | | |
|---|---------------------|---------|
| Γ | Wavelength | 1310 nm |
| [| Pulse Width | 10 ns |
| Γ | Range | 1 km |
| Γ | Averages | 344 |
| ľ | Index of Refraction | 1.4676 |

Pass/Fail Parameters

×

| Splice Loss Threshold | < 0.30 dB |
|--------------------------|-----------|
| Connector Loss Threshold | < 0.75 dB |



Schematic

Trace Graph

36.00 -32.00 -28.00 -24.00 -20.00 -16.00 -



Results Overview

| Total Length | 0.663Km |
|--------------|---------|
| Link Loss | 1.749dB |
| System ORL | 40.76dB |

Event Table

| Event# | P/F | Distance | Loss | 2 Point | dB/Km | Reflectance | Туре |
|------------|------|-----------|----------|------------|--------------|-------------|------------------|
| Span 0 - 1 | | 0.1688 Km | | 0.1830 dB | 1.159 dB/Km | | Span |
| Event 1 | Fail | 0.1688 Km | 1.867 dB | | | | Splice |
| Span 1 - 2 | | 0.1638 Km | | -0.5160 dB | -3.218 dB/Km | | Span |
| Event 2 | Pass | 0.3326 Km | 0.161 dB | | | -51.5 dB | Connector |
| Span 2 - 3 | | 0.1643 Km | | -0.4170 dB | -2.763 dB/Km | | Span |
| Event 3 | Pass | 0.4969 Km | 0.183 dB | | | -50.5 dB | Connector |
| Span 3 - 4 | | 0.1660 Km | | -0.7910 dB | -5.224 dB/Km | | Span |
| Event 4 | | 0.6628 Km | | | | -61.7 dB | End (Reflection) |

File: TIA 01.13.sor Printed on 10/8/2021 7:18:06 AM TREND NETWORKS

Page: 1

File: TIA 01.13.sor Printed on 10/8/2021 7:18:07 AM

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Page: 2



Sample Report – 10G-LX Limit

TREND NETWORKS

OTDR Certification Report

| Customer: |
|--|
| customer. |
| Test Date: 10/8/2021 7:18:00 AM Operator: |
| Model Number: FTE-7100-QUAD-VP-PM Fiber Type: Single Mode |
| Serial Number: Power Meter Cable Type: |
| Version: 0.0.1.8 Cal Date: 0/0/0 Test Standard: 10G-LX4 SMM3-D: 2019 |
| Cable ID: Location From: |
| Fiber ID: Location To: |

Trace Parameters

| Wavelength | 1310 nm |
|---------------------|---------|
| Pulse Width | 10 ns |
| Range | 1 km |
| Averages | 344 |
| Index of Refraction | 1.4676 |

Link Loss Threshold < 6.30 dB</th> Length Threshold < 10.00 Km</td>

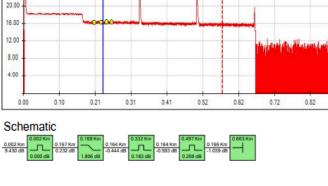
Results Overview

| Total Length | 0.663Km |
|--------------|----------|
| Link Loss | -7.540dB |
| System ORL | 40.71dB |

Event Table

| Event # | P/F | Distance | Loss | 2 Point | dB/Km | Reflectance | Туре |
|------------|------|-----------|----------|------------|----------------|-------------|------------------|
| Span 0 - 1 | | 0.0022 Km | | 9.4300 dB | 4345.038 dB/Km | | Span |
| Event 1 | Pass | 0.0022 Km | 0.000 dB | | | -15.4 dB | Connector |
| Span 1 - 2 | | 0.1666 Km | | 0.2320 dB | 1.487 dB/Km | | Span |
| Event 2 | Pass | 0.1688 Km | 1.806 dB | | | | Splice |
| Span 2 - 3 | | 0.1637 Km | | -0.4440 dB | -3.009 dB/Km | | Span |
| Event 3 | Pass | 0.3324 Km | 0.183 dB | | | -51.5 dB | Connector |
| Span 3 - 4 | | 0.1644 Km | | -0.5930 dB | -3.783 dB/Km | | Span |
| Event 4 | Pass | 0.4969 Km | 0.269 dB | | | -50.5 dB | Connector |
| Span 4 - 5 | | 0.1660 Km | | -1.0390 dB | -6.856 dB/Km | | Span |
| Event 5 | | 0.6628 Km | | | | -62.7 dB | End (Reflection) |

TREND NETWORKS



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Trace Graph

36.00 32.00 28.00 24.00

TREND NETWORKS

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Virtual demonstration



FiberMASTER OTDR

This virtual simulation of the FiberMASTER OTDR demonstrates much of the user interface function.

The yellow boxes indicate active buttons that can be pressed to simulate that function.

The Home Screen features four main functions as well as the settings, VFL and Information functions.

The OTDR button is where the OTDR is configured and tests are run.

The View button loads the previously run OTDR trace.

The Scope button activates the video inspection probe.

The PM/LS button activates the power meter and light source functions.

The VFL button activates the visual fault locator if equipped.

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