FIBERMASTER

SIZE, SIMPLICITY AND VALUE WITHOUT COMPROMISE

OTDR, PON OTDR, Power Meter, Light Source, Video Inspection Probe and Visual Fault Locator

Why do I need a FiberMASTER?

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 cable installers to get the dependable test results needed, whilst saving thousands of pounds.

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.

ACCURACY
VERIFIED
BY
GHMT AG

FiberMASTER

FiberMASTER

Measure ▷ **Trouble shooting** ▷ **Certify**

Accuracy verified by test lab, GHMT
Distance accuracy verified by German test laboratory, GHMT AG in accordance with the Telcordia GR-196 specifications.

Industry leading Dynamic Range
Test longer fibres, PON systems and maintain accuracy on high-loss fibres

Save £1,000s on testing
Save more than 50% vs other premium brands. As a global brand, our efficiencies in production, vast experience, and economies of scale enable us to keep costs low.

Built to last
It's a real inconvenience when testers must be repaired, that's why we've surrounded it with a thick rubber housing. Protecting your investment and reducing downtime.

Start testing faster
The FiberMASTER is ready to start testing as soon as you are. There is no boot up time or delay. Simply turn on and start testing.

Minimal training time
The touchscreen user interface will guide you through the setup and testing process to reduce potential mistakes as well as saving time in training field technicians.

Protective "hard" carry case
Whilst other high cost testers provide only a semi-rigid or soft carry case we understand that you depend on your tester every day so we provide a high quality rigid case to keep it as good as new.

Experts in fibre technology
We have over 30 years' experience in developing fibre optic testers and OTDRs at our R&D fibre centre of excellence in Oriskany, New York.

Made in the USA
We are proud to develop and manufacture our testers in the USA.

Test, Troubleshoot and Certify cabling faster with the FiberMASTER OTDR

Accurate ▷ **Fast** ▷ **Simple**

The FiberMASTER OTDR is available in 4 options, Quad, multimode, single-mode and PON.

The OTDRs feature both high dynamic range and small dead zones providing the precision required for installation and troubleshooting alike. The software simplifies certification of cabling to meet TIA/ISO/IEC/IEEE requirements with simple pass/fail results. Additionally custom test parameters are easily set to accommodate any application.

OTDRs can be complicated to configure and achieve accurate results. FiberMASTER automates testing and steps you through the process as shown below.
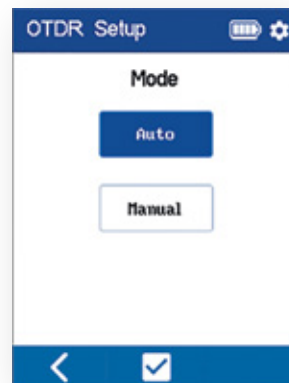
For FTTx/FTTH applications the PON OTDR identifies split ratios for easy testing and troubleshooting of inactive and active networks. The 1625nm wavelength allows in-service testing of networks without interrupting existing subscribers.
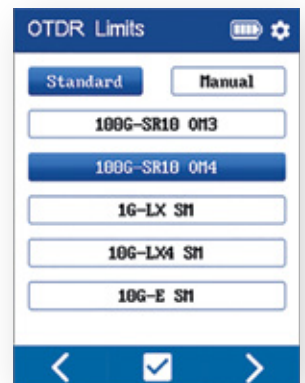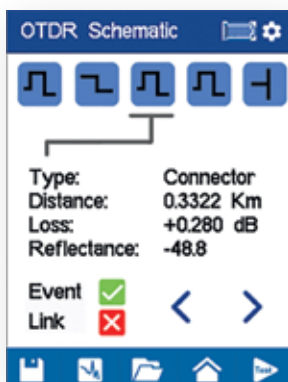
Home screen

Select the wavelength(s)

Select mode

Select the application

Events and event type shown with clear pass/fail result for each

OTDR trace shown for detailed analysis

All **FiberMASTER** OTDRs support the Fibre Inspection Probe

Instant results using the FiberMASTER 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 fibre 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.

Fibre Inspection Probe with Automatic Certification to IEC61300-3-35 Standard

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

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

- USB interface
- CertSoft free reporting software
- On-board help feature
- Pass/Fail to IEC61300-3-35 Standard
- 150x and 300x zoom level
- Automatic image positioning
- Stores images in FiberMASTER testers
- Attach images to OTDR / Power Meter test report
- Wide range of connector adapters available
- One hand operation

Managing Test Data and Documentation is easy with CertSoft Reporting Software

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

OTDR	
Wavelength	850, 1300, 1310, 1550, 1625 nm
Dynamic Range (dB)	29/30 MM, 38/37 SM, 37/37/36 PON
Dead Zones	1m Event, 5m Attenuation
Resolution	6 cm - 16 m / 2 in - 52 ft
Distance Uncertainty	±(0.75m + 0.005% x distance + sampling res.) Verified by GHMT® laboratories
Sampling Points	Up to 128,000
Storage	Approx 40,000 results
Size/Weight	170 mm (6.7 in) 108 mm (4.2 in) x 51 mm (2.0 in) 730 g (1.6 lbs)
Connector	SC included. FC, ST optional

Power Meter	
Wavelength	850, 1300, 1310, 1490, 1550, 1625 nm
Measurement Range	+5 to -77 dBm
Uncertainty	± 0.18 dB reference conditions ± 0.25 dB from 0 to -65 dBm, ± 0.35 dB from 0 to +5 dBm ± 0.35 dB -65 to -77 dBm
Resolution	0.01 dB
Connectors	LC/SC/FC/ST/2.5mm/1.25mm included

Sapphire
CARE PLAN

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.

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 A1 150m SC-LC
- R240-SL-SCSC - Launch cable SM G.657 A1 150m SC-SC
- R240-SL-SCSC-A -Launch cable SM G.657 A1 150m SC-SC APC
- 33-963-10 – One-click fibre cleaner STC-TC 2.5mm
- 33-963-11 – One-click fibre cleaner STC-FC 1.25mm

tele cron

telecroatian network

www.telecron.net

FiberMASTER

Quad / PON OTDR / Light Source

Product Size
Height = 170mm
Width = 108mm
Depth = 51mm

Quad / PON OTDR

Video Inspection Probe Connector

Power Meter

Multimode / Single-mode OTDR

MM/SM OTDR/ Light Source Port

VFL Port

Video Inspection Probe Port

Power Meter

Power Meter

VFL Port

Video Inspection Probe Port

Power Meter

Rubber ears protect optical connectors

Intuitive User Interface
Simplified user interface for easy setup and operation

Touchscreen
for ease of use

Instant boot-up

Lithium polymer battery
For 10 hours continuous usage

A handy stylus is clipped into the back of the tester

Kickstand for bench use

Extra thick rubber housing to protect your investments

FiberMASTER

Size, simplicity and value without compromise

Ordering Information / Kit Contents

Part No	Description	Hard carry case	MM 2m Cable LC-SC	MM 2m Cable SC-SC	SM 2m Cable LC-SC	SM 2m Cable SC-SC	SM 2m APC Cable SC-SC	1.25mm cleaning pen	2.5mm cleaning pen	Power Adapter	USB Cable	Stylus
R240-QIP	**FiberMASTER** Quad OTDR (850/1300/1310/1550) with SC connectors, Inspection port, Power meter	1	1	1	1	1		1	1	1	1	2
R240-MIPV	**FiberMASTER** Multimode OTDR (850/1300) with SC connector, Inspection port, Power meter	1	1	1				1	1	1	1	2
R240-SIPV	**FiberMASTER** Single-mode OTDR (1310/1550) with SC connector, Inspection port, Power meter	1			1	1		1	1	1	1	2
R240-PIP	**FiberMASTER** PON OTDR (1310/1550/1625) with SC-APC connectors, Inspection port, Power meter	1					1	1	1	1	1	2
R240-LSIV	**FiberMASTER** Quad light source with LC connectors, Inspection port, VFL		1	1	1	1		1	1	1	1	2
R240-PMIV	**FiberMASTER** Multimode/ single-mode power meter with interchangable SC/SC/FC connectors, Inspection port, VFL		1	1	1	1		1	1	1	1	2
R240-PMLS	**FiberMASTER** Multimode/ single-mode power meter and quad light source kit, with Inspection port, VFL	1	2	2	2	2		2	2	2	2	4

Sapphire Care Plan and Extended Warranty

Part No.	Description
SCP1YFM-Q	Sapphire Care Plan - FiberMASTER Quad and PON OTDR - 1 Year
SCP2YFM-Q	Sapphire Care Plan - FiberMASTER Quad and PON OTDR - 2 Year
SCP3YFM-Q	Sapphire Care Plan - FiberMASTER Quad and PON OTDR - 3 Year
SCP1YFM-P	Sapphire Care Plan - FiberMASTER SM or MM OTDR or PM/LS Kit - 1 Year
SCP2YFM-P	Sapphire Care Plan - FiberMASTER SM or MM OTDR or PM/LS Kit - 2 Year
SCP3YFM-P	Sapphire Care Plan - FiberMASTER SM or MM OTDR or PM/LS Kit - 3 Year
R240-QIP-W2	2 Year Warranty - FiberMASTER OTDR Quad
R240-MIPV-W2	2 Year Warranty - FiberMASTER OTDR Multimode
R240-SIPV-W2	2 Year Warranty - FiberMASTER OTDR Single-mode
R240-PIP-W2	2 Year Warranty - FiberMASTER OTDR PON
R240-LSIV-W2	2 Year Warranty - FiberMASTER Light Source Quad
R240-PMIV-W2	2 Year Warranty - FiberMASTER Power Meter MM/SM
R240-PMLS-W2	2 Year Warranty - FiberMASTER Power Meter and Light Source
R240-VIP-W2	2 Year Warranty - FiberMASTER Fibre Inspection Probe

Optional Accessories

Part No.	Description
R240-VIP	FiberMASTER video inspection probe, with auto-centring and zoom feature, compatible with OTDR, light source and power meter
R240-ML-SCSC	Launch cable, OM3, 150m, SC-SC
R240-ML-SCLC	Launch cable, OM3, 150m, SC-LC
R240-SL-SCLC	Launch cable, SM G.657 A1, 150m, SC-LC
R240-SL-SCSC	Launch cable, SM G.657 A1, 150m, SC-SC
R240-SL-SCSC-A	Launch cable, SM G.657 A1, 150m, SC-SC APC
R164050	FT III/IV-Encircled Flux 50/125um Cable SC - SC
R164051	FT III/IV-Encircled Flux 50/125um Cable SC – LC
R240-VIP-SC	SC bulkhead video adapter tip
R240-VIP-LC	LC bulkhead video adapter tip
R240-VIP-SCA	SC/APC bulkhead video adapter tip
R240-VIP-FCA	FC/APC bulkhead video adapter tip
R240-VIP-125U	1.25mm universal bulkhead video adapter tip
R240-VIP-250U	2.5mm universal bulkhead video adapter tip

TREND NETWORKS

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