

OptiFiber® Specifications and Ordering Information

| General Specifications | |
|--|---|
| Weight | Main with module and battery: 4.5 lbs (1.9 kg) |
| Dimensions | Main with module and battery: 11.4 x 7.5 x 2.5 in (29.0 x 19.1 x 6.4 cm) |
| Battery | Li-Ion |
| Battery life | 8 hours typical |
| Connections | USB, RS-232, FiberInspector™ camera port, PS-2 keyboard |
| Memory card | SD MMC |
| Environmental Specifications | |
| Operating temperature | 0°C to 40°C |
| Non-operating temperature | -20°C to 60°C |
| Relative humidity (%RH operating without condensation) | 95% (10 to 35°C); 75% (35 to 40°C) Uncontrolled < 10°C |
| Vibration | Random, 2 g, 5-500 Hz |
| Shock | 1 meter drop test while module is both inserted inside and outside the instrument enclosure |



OptiFiber Certifying OTDR

| Key OTDR Specs (23°C) | Multimode: OFTM-5610B, OFTM-5611B, OFTM-5612B | Singlemode: OFTM-5730, OFTM-5731, OFTM-5732 |
|------------------------|--|---|
| Output/input connector | SC/UPC removeable/cleanable | SC/UPC removable/cleanable |
| Wavelengths | 850 ± 20 nm and 1300 ± 25 nm | 1310 ± 25 nm and 1550 ± 30 nm |
| Fiber types tested | 50/125 µm or 62.5/125 µm multimode | 9/125 µm singlemode |
| Event deadzone | 850 nm: 0.5 m typical 1300 nm: 1.3 m typical | 1310/1550 nm: 1 m typical |
| Attenuation deadzone | 850 nm: 4.5 m typical 1300 nm: 10.5 m typical | 1310/1550 nm: 8 m typical |
| Pulse width | 850 nm: 4 ns, 20 ns 1300 nm: 8 ns, 40 ns, 100 ns, 200 ns, 400 ns, 650 ns | 1310 nm/1550 nm: 5 ns, 20 ns, 40 ns, 100 ns, 300 ns, 1 µs, 3 µs, 10 µs |
| Max distance range | 850 nm: 3 km, 1300 nm: 7 km | 1310/1550 nm: 60 km |
| Dynamic range | 850 nm: 15 dB typical 1300 nm: 14 dB typical | 1310 nm: 26 dB typical 1550 nm: 24 dB typical |
| Testing speed | <10s for two wavelengths at 2 km with 25 cm resolution <30s for two wavelengths at 400 m with 3 cm resolution | Auto OTDR 15 seconds typical Manual OTDR 15 seconds to 3 min |
| Output power | 850 nm: >110 mW-pk 1300 nm: >22 mW-pk | 1310 nm: >28 mW-pk 1550 nm: >24 mW-pk |
| Distance accuracy | ± 1 m ± 0.005% of distance ± 50% of resolution ± IOR error ± event location error | |
| Loss threshold | .2 dB | .01 dB to 1.5 dB inclusive |
| Linearity | ± .07 dB/dB | ± .05 dB/dB |
| Sample resolution | 3 cm to 50 cm | 3 cm to 400 cm |
| Reflectance accuracy | ± 4 dB | ± 4 dB |
| ORL accuracy | ± 4 dB | ± 4 dB |
| Laser classification | Class 1 CDRH, complies to EN 60825-2 | |

| Key Power Meter and Loss/Length Specifications (23°C) | OFTM-5612B, OFTM-5732 |
|---|---|
| Input/output connectors | Removable/interchangeable input connector; SC/PC output connector |
| Nominal output wavelengths | OFTM-5612B: LED source: 850 nm and 1300 nm OFTM-5732: Laser source: 1310 nm and 1550 nm |
| Measurement range | OFTM-5612B: 5 km of 62.5 µm or 50 µm multimode fiber; 20 km in far-end source mode OFTM-5732: 10 km of 9 µm singlemode fiber; 60 km in far-end source mode |
| Power measurement detector type | InGaAs |
| Calibrated wavelengths for power measurement | 850 nm, 1310 nm, 1550 nm |
| Power measurement range | 0 to -60 dBm (1300/1310 nm and 1550 nm); 0 to -52 dBm (850 nm) |
| Output power (nominal) | OFTM-5612B: -19.5 dBm; OFTM-5732: -7 dBm |

Note: Above specifications are subject to change without notice

OptiFiber® OTDR. Bringing Network SuperVision to premise fiber networks with the most complete fiber optic test solution.

Power Meter Specifications OFTM-5611B, OFTM-5731

| | |
|-------------------------|--|
| Input connector | Removable/interchangeable SC input connector |
| Detector type | InGaAs |
| Calibrated wavelengths | 850 nm, 1310 nm, 1550 nm |
| Power measurement range | 0 to -60 dBm (1300/1310 nm and 1550 nm), 0 to -52 dBm (850 nm) |

FiberInspector™ Pro Specifications OFTM-5352

| | |
|--------------------------|---|
| Magnification | Switchable – 200x / 400x |
| Dimensions (without tip) | 1.8 x 1.7 x 5.5 in (4.6 x 4.3 x 14.0 cm) (Length depends on adapter tip) |
| Weight | 0.4 lb (180 g) |

VFL Specifications OFTM-5730, OFTM-5731, OFTM-5732

| | |
|--------------------------------------|--|
| On/off control | Controlled by OptiFiber software (no hardware switch) |
| Output power (into singlemode fiber) | 316 μ m (-5 dBm) < or equal to peak power > or equal to 1 mw (0 dBm) |
| Operating wavelength | 650 nm nominal |
| Spectral width | \pm 3 nm |
| Output modes | Continuous and pulse mode (2Hz-3Hz blink) |
| Connector adapter | 2.5 mm universal |
| Laser safety | Class II CDRH complies to EN60825-2 |

OptiFiber Kits Ordering Information

| Model | Description | Includes |
|-----------------|--|--|
| Value | | |
| OF-500-M | OptiFiber Multimode Value Bundle | Mainframe, battery, MM OTDR module, protective case with carrying strap, USB cable, AC adapter, LinkWare CDs and manuals, user guide, calibration certificate |
| OF-500-S | OptiFiber Singlemode Value Bundle | Mainframe, battery, SM OTDR module, protective case with carrying strap, USB cable, AC adapter, LinkWare CDs and manuals, user guide, calibration certificate |
| OF-500-MS | OptiFiber Quad Value Bundle | Mainframe, battery, MM/SM OTDR modules, protective case with carrying strap, USB cable, AC adapter, LinkWare CDs and manuals, user guide, calibration certificate |
| Standard | | |
| OF-500-M10 | OptiFiber Datacenter-Ready Certifying OTDR (MM) | Mainframe, battery, MM OTDR/OPM/LL module, 62.5 μ m and 50 μ m launch fibers, CDs with LinkWare and manuals, user guide, 32 MB MMC, USB cable, AC adapter, carrying strap, soft protective carrying case, 200x/400x inspection camera, MMC reader; all accessories for testing SC and LC |
| OF-500-MS35 | OptiFiber Enterprise-Ready Certifying OTDR (MM/SM) | Mainframe, battery, MM/SM OTDR/OPM/LL module, 62.5 μ m, 50 μ m, and SM launch fibers, CDs with LinkWare and manuals, user guide, 32 MB MMC, USB cable, AC adapter, carrying strap, hard protective carrying case, 200x/400x inspection camera, MMC reader; all accessories for testing SC and LC |
| OF-500-MS45 | OptiFiber Premium Enterprise-Ready Certifying OTDR (MM/SM) | Includes contents and capabilities of OF-500-MS35, plus Smart Remote unit components (unit and MM/SM module, carry strap, user guide, Mini-B USB-cable, second AC adapter, MMC reader) |
| OF-500-MSDTX | OptiFiber Enterprise-Ready Certifying OTDR + DTX CableAnalyzer (MM/SM) | Includes contents and capabilities of OF-500-MS35, plus DTX 1800 120 mainframe, MM/SM modules, 62.5 μ m, 50 μ m, and SM premium test reference cords with patented damage-resistant end-faces |

OptiFiber Mainframe and Modules Ordering Information

| Model | Description | Use |
|------------|--|---|
| OF-500 | OptiFiber Mainframe and Battery | Mainframe, battery, CD with LinkWare and manuals, user manual, AC adapter, 32 MB MMC, USB cable, carrying strap |
| OFTM-5610B | OptiFiber Multimode OTDR Module | Pinpoint the location of problems within a multimode fiber link, even if spaced as closely as .5 m apart |
| OFTM-5611B | OptiFiber Multimode OTDR + PM Module | Measure the attenuation of multimode fiber link using a separate far-end 850/1300 nm source |
| OFTM-5612B | OptiFiber Multimode OTDR + PM + Loss/Length Module | Certify a multimode link using the proven standards-based two fiber, dual wavelength methodology |
| OFTM-5730 | OptiFiber Extended Range Singlemode OTDR Module | Pinpoint the location of problems within a singlemode fiber links, even if spaced as closely as 1 m apart |
| OFTM-5731 | OptiFiber Extended Range Singlemode OTDR + PM Module | Measure the loss of singlemode fiber links using a separate far-end 1310/1550 nm source |
| OFTM-5732 | OptiFiber Extended Range Singlemode OTDR + PM + Loss/Length Module | Certify a singlemode link using the proven standards-based two fiber, dual wavelength methodology |

OptiFiber Options and Accessories Ordering Information

| Model | Description | Use |
|---------------|--|--|
| OFTM-5352 | FiberInspector Pro Video Probe, 200x/400x | High resolution 200x/400x inspection of fiber connectors on patch panels and cable assemblies. Includes Probe Adapter Tips (ST, SC, FC, and universal 2.5 mm patch cord tip) |
| OFSR-MMREM | Smart Remote with multimode option | Use with OptiFiber mainframe for Smart Remote loss/length certification. Includes smart remote unit with a smart remote multimode module and accessories |
| OFSR-SFM | Singlemode Smart Remote module option | Use with the OptiFiber Smart Remote Option (OFSR-MMREM) to allow Smart Remote loss/length certification of singlemode fibers |
| OFSR-MFM | Multimode Smart Remote module option | Use with a DTX CableAnalyzer™ to allow its remote unit to work with an OptiFiber mainframe as an OptiFiber smart remote unit for loss/length testing of multimode fibers |
| NF360 | FiberInspector MT-RJ Probe Tip | For inspecting MT-RJ small form factor connectors |
| NF362 | FiberInspector LC Probe Tip | For inspecting LC small form factor connectors |
| NF364 | FiberInspector MU Probe Tip | For inspecting MU small form factor connectors |
| NF366 | FiberInspector E2000 Probe Tip | For inspecting E2000 connectors |
| NFK1-LAUNCH | SC-SC 62.5/125 μm launch cable, 100 m | OptiFiber launch and receive fibers |
| NFK2-LAUNCH | SC-SC 50/125 μm launch cable, 100 m | |
| NFK3-LAUNCH | SC-SC Singlemode launch cable, 130 m | |
| OFBP-LI | OptiFiber Li-Ion battery | Test a full 8 hours between charges with integrated charger |
| OFCC-SOFTCASE | OptiFiber protective carry case | Protective carrying case for mainframe, module, launch fiber and accessories |
| OFCC-HCASE | OptiFiber hard carrying case | Ultimate protection for the mainframe, modules, batteries and accessories |
| OPV-KB | External mini-keyboard | Enter information quickly with the plug and play keyboard |
| 32MB | Secure digital memory card | Record storage |
| DTX-SMC32 | 32MB secure digital memory card | |
| MMC CASE | MMC softcase | Easily keep track of your MMC cards in this handy case that stores up to 8 MMC cards |
| DSP-MCR-U | MMC Reader, USB cable | Upload saved results to the PC for results management, analysis and reporting |
| 8251-13 | SimpliFiber 850/1300 LED Source, SC | Optional sources for use with OptiFiber OTDR + power meter modules |
| 8251-11 | SimpliFiber 1310 Laser Source, SC | |
| 8251-12 | SimpliFiber 1550 Laser Source, SC | |
| NF400 | Soft Case for Patch Cords & Accessories | Easily keep track of patch cords and small accessories |
| NF430 | Cleaning kit | Properly clean fibers with optical grade cleaning pads, swabs and alcohol |
| 800695 | Adapter cable for cigarette lighter jacks | Charge the OptiFiber while route to the jobsite |
| OPV-PS | AC adapter with line cord | Keep your battery charged up with AC adapter |
| OPV-KB | External keyboard | Use optional keyboard for fast set up |
| NFA-SC | SC connector adapters for OFTM Power Meter and DTX Module inputs, set of two | Replacement SC adapters for Power Meter Ports |

OptiFiber Options and Accessories Ordering Information

| Model | Description | Use |
|-----------------|--|--|
| NFA-LC | LC connector adapters for OFTM Power Meter and DTX Module inputs, set of two | Replacement LC adapters for Power Meter Ports |
| NFA-ST | ST connector adapters for OFTM Power Meter and DTX Module inputs, set of two | Replacement ST adapters for Power Meter Ports |
| NFA-FC | FC connector adapters for OFTM Power Meter and DTX Module inputs, set of two | Replacement FC adapters for Power Meter Ports |
| NFK1-DPLX-SC | SC/SC to SC/SC Duplex 62.5 um test reference cord, 2 m, set of two | Use high quality, durable, test reference cords and mandrels for the best power and loss length measurements |
| NFK1-DPLX-LC | SC/LC to LC/LC Duplex 62.5 um test reference cord, 2 m, set of two | |
| NFK1-DPLX-ST | SC/ST to ST/ST Duplex 62.5 um test reference cord, 2 m, set of two | |
| NFK1-DPLX-FC | SC/FC to FC/FC Duplex 62.5 um Test Reference cord, 2 m, set of two | |
| NFK2-DPLX-SC | SC/SC to SC/SC Duplex 50 um test reference cord, 2 m, set of two | |
| NFK2-DPLX-LC | SC/LC to LC/LC Duplex 50 um test reference cord, 2 m, set of two | |
| NFK2-DPLX-ST | SC/ST to ST/ST Duplex 50 um test reference cord, 2 m, set of two | |
| NFK2-DPLX-FC | SC/FC to FC/FC Duplex 50 um test reference cord, 2 m, set of two | |
| NFK3-DPLX-SC | SC/SC to SC/SC Duplex Singlemode test reference cord, 2 m, set of two | |
| NFK3-DPLX-LC | SC/LC to LC/LC Duplex Singlemode test reference cord, 2 m, set of two | |
| NFK3-DPLX-ST | SC/ST to ST/ST Duplex Singlemode test reference cord, 2 m, set of two | |
| NFK3-DPLX-FC | SC/FC to FC/FC Duplex Singlemode test reference cord, 2m, set of two | |
| NF-Mandrel-Kit | Mandrel Kit 2 each for testing 50 um and 62.5 um with 3 mm jacket | Use mandrels for accurate, standard compliant multimode measurements |
| NF-Mandrel -50 | Mandrel for 50 um fiber with 3 mm jacket | Use mandrels for accurate, standard compliant multimode measurements |
| NF-Mandrel-625 | Mandrel for 62.5 um fiber with 3 mm jacket | Use mandrels for accurate, standard compliant multimode measurements |
| LinkWare | LinkWare cable test management software CD | The best results management tool to document your results |
| NFK1-LAUNCH-ST | Launch Fiber, Multimode 62.5 um SC/ST 100 m | Hybrid launch fiber for testing cabling with ST style connectors |
| NFK2-LAUNCH-ST | Launch Fiber, Multimode 50 um SC/ST 100 m | |
| NFK3-LAUNCH-ST | Launch Fiber, Singlemode SC/ST 130 m | |
| NFK1-LAUNCH-LC | Launch Fiber, Multimode 62.5 um SC/LC 100 m | Hybrid launch fiber for testing cabling with LC style connectors |
| NFK2-LAUNCH-LC | Launch Fiber, Multimode 50 um SC/LC 100 m | Hybrid launch fiber for testing cabling with LC style connectors |
| NFK3-LAUNCH-LC | Launch Fiber, Singlemode SC/LC 130 m | Hybrid launch fiber for testing cabling with LC style connectors |
| NFK2-LAUNCH-E2K | Launch Fiber, Multimode 50 um SC/E2000 100 m | Hybrid launch fiber for testing cabling with E2000 style connectors |
| NFK3-LAUNCH-E2K | Launch Fiber, Singlemode SC/E2000 130 m | |
| NF-OPRT-SC | SC OTDR Port Adapter | Replacement adapter for OptiFiber OTDR port |

NETWORK SUPERVISION

Fluke Networks
P.O. Box 777, Everett, WA USA 98206-0777

Fluke Networks operates in more than 50 countries worldwide. To find your local office contact details, go to www.flukenetworks.com/contact.

©2010 Fluke Corporation. All rights reserved.
Printed in U.S.A. 1/2010 2032360I D-ENG-N