# **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:<br>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)<br>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<br>Specs (23°C) | Multimode:<br>OFTM-5610B, OFTM-5611B, OFTM-5612B   | Singlemode:<br>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<br>1300 nm: 1.3 m typical  | 1310/1550 nm: 1 m typical   |  |
| Attenuation deadzone     | 850 nm: 4.5 m typical<br>1300 nm: 10.5 m typical   | 1310/1550 nm: 8 m typical   |  |
| Pulse width              | 850 nm: 4 ns, 20 ns<br>1300 nm: 8 ns, 40 ns, 100 ns, 200 ns,<br>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<br>1300 nm: 14 dB typical  | 1310 nm: 26 dB typical<br>1550 nm: 24 dB typical  |  |
| Testing speed            | <10s for two wavelengths at 2 km with 25 cm resolution<br><30s for two wavelengths at 400 m with 3 cm resolution | Auto OTDR 15 seconds typical<br>Manual OTDR 15 seconds to 3 min                                       |  |
| Output power             | 850 nm: >110 mW-pk 1310 nm: >2<br>1310 nm: >2<br>1550 nm: >2   |   |  |
| Distance accuracy        | ± 1 m ± 0.005% of distance ± 50% of resolution ± IOR en  | $\pm$ 1 m $\pm$ 0.005% of distance $\pm$ 50% of resolution $\pm$ IOR error $\pm$ 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 ± 4 dB   |  |
| ORL accuracy             | ± 4 dB   | ± 4 dB  |  |
| Laser classification     | Class 1 CDRH, complies to EN 60825-2   | 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<br>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 measurment detector type                        | InGaAs   |  |
| Calibrated wavelengths for power measurment           | 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



| 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 um (-5 dBm) < or equal to peak power > or equal to 1 mw (0 dBm) |  |
| Operating wavelength                               | 650 nm nominal  |  |
| Spectral width                                     | ± 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        |   |  |  |
| 0F-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  |  |
| 0F-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  |  |
| 0F-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     |   |  |  |
| 0F-500-M10   | OptiFiber Datacenter-Ready Certifying<br>OTDR (MM)                        | Mainframe, battery, MM OTDR/OPM/LL module, 62.5µm and 50µm 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         |  |
| 0F-500-MS35  | OptiFiber Enterprise-Ready Certifying<br>OTDR (MM/SM)                     | Mainframe, battery, MM/SM OTDR/OPM/LL module, 62.5μm, 50μm, 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 |  |
| 0F-500-MS45  | OptiFiber Premium Enterprise-Ready<br>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<br>OTDR + DTX CableAnalyzer (MM/SM) | Includes contents and capabilities of OF-500-MS35, plus DTX 1800 120 mainframe, MM/SM modules, 62.5µm, 50µm, and SM premium test reference cords with patented damage-resistant end-faces  |  |



### **OptiFiber Mainframe and Modules Ordering Information**

| Model      | Description   | Use   |
|------------|---|---|
| 0F-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<br>+ Loss/Length Module                 | Certify a multimode link using the proven standards-based two fiber, dual wavelength methodology                |
| OFTM-5730  | OptiFiber Extended Range Singlemode<br>OTDR Module                    | Pinpoint the location of problems within a singlemode fiber links, even if spaced as closely as 1 m apart       |
| 0FTM-5731  | OptiFiber Extended Range Singlemode<br>OTDR + PM Module               | Measure the loss of singlemode fiber links using a separate far-end 1310/1550 nm source                         |
| 0FTM-5732  | OptiFiber Extended Range Singlemode OTDR +<br>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  |
|---------------|--|--|
| 0FTM-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  |  |
| NFK2-LAUNCH   | SC-SC 50/125 μm launch cable, 100 m  | OptiFiber launch and receive fibers  |
| 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  |  |
| 8251-11       | SimpliFiber 1310 Laser Source, SC  | Optional sources for use with OptiFiber OTDR + power meter modules   |
| 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           |   |
| 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             | Use high quality, durable, test reference cords and mandrels for the best power |
| NFK2-DPLX-ST    | SC/ST to ST/ST Duplex 50 um test reference cord, 2 m, set of two             | and loss length measurements  |
| 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                                  |   |
| NFK2-LAUNCH-ST  | Launch Fiber, Multimode 50 um SC/ST 100 m                                    | Hybrid launch fiber for testing cabling with ST style connectors                |
| 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                                 |   |
| NFK3-LAUNCH-E2K | Launch Fiber, Singlemode SC/E2000 130 m                                      | Hybrid launch fiber for testing cabling with E2000 style connectors             |
| NF-OPRT-SC      | SC OTDR Port Adapter   | Replacement adapter for OptiFiber OTDR port                                     |

### N E T W O R K S U P E R V I S I O N

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