

Test and Monitoring Solutions for Fiber to the Home (FTTH)

Essential Optical Test Tools & Microscopes for Fiber Inspection



Optical Connector Cleaning



FFL-050/FFL-100
Visual fault locator (VFL) for continuity check



FI-10, FI-11, FI-60
Live fiber identification



P5000i¹ with FiberChek™ MOBILE
Connector inspection with pass/fail analysis



FiberChek Probe
Fully automated connector inspection with pass/fail analysis



FiberChek Sidewinder
Fully automated MPO connector inspection with pass/fail analysis

Handheld Test Tools for Insertion Loss (IL) and Power-Level Measurements



SmartPocket™ OMK-35 Kit
Insertion loss test kit, Termination mode, Broadband Power Meter



SmartPocket™ OLP-35
G-PON Termination mode Broadband Power Meter



SmartPocket™ OLP-37X
G-PON / XG(S)-PON, Termination mode Selective Power Meter



SmartClass Fiber OLP-87
G-PON / XG(S)-PON / NG-PON2, Through mode, selective PON Power Meter, Connector inspection with Pass/Fail analysis



SmartClass Fiber OLP-88
G-PON Through mode, selective PON Power Meter, TruePON test with PON-ID, Connector inspection with Pass/Fail analysis



Network & Service Companion
G-PON network and in-premises service tester (Ethernet & WiFi)

Solutions for Fault Location/OTDR/ORL Measurements



T-BERD®/MTS-2000 OTDR or SmartOTDR™
Handheld/Handsfree modular test set for fault localization/OTDR measurement SmartLink Mapper (SLM) applications



FiberComplete
T-BERD/MTS-2000 & 4000 V2 Automated bi-directional IL, ORL, OTDR fiber certification



T-BERD/MTS-4000 V2
Dual-slot modular test platform for automated fault localization/OTDR measurement including high density fiber cables SmartLink Mapper (SLM) applications Supports integrated MPO Switch Module

Remote Fiber Test System



ONMSi and SmartOTU
Centralized OTDR Construction Certification Remote fiber testing and monitoring for point-to-point and point-to-multi-point networks

● Build and Construction Solutions ● Network Activation Solutions ● Service Activation Solutions ● Maintenance and Troubleshooting Solutions

¹ Compatible with PC, laptop, SmartClass Fiber Series, and T-BERD/MTS-2000 and -4000 Platforms

² FTTH-SLM (Smart Link Mapper): Icon-based/schematic OTDR map view and PON network elements discovery application

Test and Monitoring Solutions for Fiber to the Home (FTTH)

	Tests to Perform	Tool Category	FEL-050 FEL-100	FI-10 FI-11	FI-60	P5000i FiberChek Probe	FiberChek - Sidewinder	OLP-35	OLP-37X	OLP-87	OLP-88	Network & Service Companion	SmartOTDR	T-BERD/MTS-2000 or -4000 V2 with OTDR	T-BERD/MTS-2000 or -4000 V2 with FiberComplete	OMK-35 Kit (OLS-35/ OLP-35)	ONMSI	SmartOTU
Essential Fiber Accessories & Inspection	Verify continuity and visually locate faults	VFL	■										■	■	■			
	Identify live traffic on fiber	Live Fiber identifier		■	■													
	Inspect and pass/fail certify connector end faces	Digital video inspection scope				■				■	■		■	■	■			
	Inspect and pass/fail certify MPO connector	Digital video inspection scope				■	■											
	Measure B / G / E-PON (1490 nm) downstream power level where no RF video overlay	Broadband power meter		■	■									■	■	■		
Network Build & Construction	Measure insertion loss	Loss test set or OTDR											■	■	■	■		
	Measure optical return loss	Optical return loss (ORL) meter											■	■	■			
	Verify link length/locate break	OTDR with trace and/or SLM view											■	■	■		■	■
	Measure loss, reflectance, and bends in fiber, splices, and connectors	OTDR with trace and/or SLM view											■	■	■		■	■
	High density fiber certification	OTDR and SLM (optional MPO Switch Module)											■	■	■			
	Centralized PON build Certification	RFTS or fiber link monitoring system															■	■
Network Activation	Measure B / G / E-PON (1490 nm) downstream power level where no RF video overlay	Terminate mode broadband power meter						■										
	Measure B / G / E-PON (1490 nm) downstream power level with video overlay present	Selective power meter							■	■	■							
	Measure power levels of individual upstream and downstream wavelengths	Through mode selective 'PON' power meter								■	■							
	Verify G-PON ONT activation process	G-PON ID analyzer									■							
Service Activation	Identify OLT/ONT and detect rogue/alien-ONUs	G-PON ID analyzer									■							
	Emulate ONT - Verify G-PON ONT activation process	PON network & in-premises service tester										■						
	Verify power levels of G-PON downstream OLT Tx and ONT Rx	PON network & in-premises service tester										■						
	Throughput performance test via G-PON ONT test interface	PON network & in-premises service tester										■						
	Throughput performance test via Ethernet test interface	PON network & in-premises service tester										■						
Maintenance & Troubleshooting	Throughput performance test via WiFi test interface	PON network & in-premises service tester										■						
	Verify link length/locate break	OTDR with trace and/or SLM view											■	■	■		■	■
	Measure loss, reflectance, and bends in fiber, splices, and connectors	OTDR with trace and/or SLM view											■	■	■		■	■
	High density fiber cable certification	OTDR and SLM (optional MPO Switch Module)											■	■				
	Measure B / G / E-PON (1490 nm) downstream power level with video overlay present	Terminate mode selective power meter							■	■	■							
	Measure power levels of individual upstream and downstream wavelengths	Through mode selective 'PON' power meter								■	■							
	Verify G-PON ONT activation process	G-PON ID analyzer									■	■						
	Identify OLT/ONT and detect rogue/alien-ONUs	G-PON ID analyzer									■							
	Verify power levels of G-PON downstream OLT Tx and ONT Rx	PON network & in-premises service tester											■					
	Throughput performance test via G-PON ONT test interface	PON network & in-premises service tester											■					
	Throughput performance test via Ethernet test interface	PON network & in-premises service tester											■					
	Throughput performance test via WiFi test interface	PON network & in-premises service tester											■					
	Monitor and test fiber networks remotely	RFTS or fiber link monitoring system																■
Monitor and test fiber networks remotely — Standalone Probe	RFTS or fiber link monitoring system																	■