

Test and Monitoring Solutions for Fiber to the Antenna (FTTA)

Fiber Inspection and Basic Optical Test



Fiber cleaning



VFL
Continuity and trace
Economy and basic



Fiber ID



Optical Power Meters (MP-60, PowerChek™, SmartPocket™)
Cell tower optical loss measurement



**Inspect, pass/fail, and
FiberChekPRO™**
Base station kit



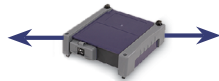
**Inspect, clean, test,
and certify**
Pro tools cell tower kit

Fault Locator/OTDR/IL/ORL Testing

SLM and FTFA - SLM - Software Feature*



**T-BERD®/MTS-2000 and
SmartOTDR™ Kits**
Handheld/hands-free
modular test set for basic
cell tower OTDR



FiberComplete™
Auto-bidirectional
LTS/ORL+OTDR module for
distributed cells and backhaul



T-BERD/MTS-4000 V2
Multiple service test platform
large-screen cell tower OTDR
or OTDR/C-OSA combo



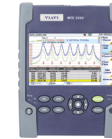
T-BERD/MTS-6000v2
Backhaul OTDR EVO, FiberComplete
EVO (auto-bidirectional
LTS+ORL+OTDR),
and CWDM OTDR

*SLM + FTFA-SLM (Smart Link Mapper): Icon-based OTDR map view automatically detects elements

CWDM/DWDM Testing



OCC-5x
Optical channel checkers
for CWDM/DWDM



T-BERD/MTS-2000
Handheld/hands-free
CWDM OSA



T-BERD/MTS-4000 V2
CWDM OSA



T-BERD/MTS-6000v2
Full-band OSA

Active Network Field Test



SmartClass™
Ethernet only (to GE)



HST-3000
Metro Ethernet and
cell backhaul (to GE)



T-BERD/MTS-5800v2
Metro Ethernet, cell backhaul
(to 10 GE), and CPRI/OBSAI



T-BERD/MTS-6000Av2
Metro Ethernet, backhaul
(dual 10 GE), CPRI/OBSAI

Remote Test and Monitoring



QT-600
1 G/10 G Ethernet



ONMSI
Fiber backhaul remote
test and monitoring

Test and Monitoring Solutions for Fiber to the Antenna (FTTA)

Fiber Backhaul Tests Performed	Tool Category	FI-60	FLL-100 and FFL-050	P50001	OLP-82	OLP-35, MP-60, and PowerChek	OLS-35	OCC-5x	T-BERD/MTS-2000	T-BERD/MTS-4000 V2	SmartClass Ethernet	HST-3000	T-BERD/MTS-5800V2	T-BERD/MTS-6000A
Identify live fiber	Fiber identifier	■												
Inspect optical-connector end face	Video inspection scope			■	■				■	■		■	■	■
Inspect and pass/fail certify connector end face	Digital video inspection scope			■	■				■	■		■	■	■
Check continuity	VFL		■						■	■				■
Verify link length/locate break	OTDR/SLM								■	■				■
Loss/attenuation test	Loss test set				■	■	■		■	■		■		■
Identify splice and connector loss, macrobend, and reflectance	OTDR/SLM								■	■				■
Power-level measurements	Broadband power meter	■			■	■			■	■		■		■
CWDM/DWDM test	OSA/channel check							■	■	■				■
CPRI/OBSAI test	Layer 1/2												■	■
Ethernet test	Layers 1, 2, 3, 4										■	■	■	■

Macro Cell Tower and Distributed Cell Tests Performed	Tool Category	FI-60	FLL-100 and FFL-050	P50001	OLP-82	OLP-35, MP-60, and PowerChek	OLS-35	OCC-5x	T-BERD/MTS-2000	T-BERD/MTS-4000 V2	HST-3000	T-BERD/MTS-5800V2	T-BERD/MTS-6000A
Identify live fiber	Fiber identifier	■											
Inspect optical-connector end face	Video inspection scope			■	■				■	■	■	■	■
Inspect and pass/fail certify connector end face	Video inspection scope			■	■				■	■	■	■	■
Check continuity	VFL		■						■	■			■
Verify link length/locate break	OTDR FTTA-SLM								■	■			■
Loss/attenuation test	Loss test set				■	■	■		■	■	■		■
Identify splice and connector loss, macrobend, and reflectance	OTDR FTTA-SLM								■	■			■
Power-level measurements	Broadband power meter	■			■	■			■	■	■		■
CWDM/DWDM test	OSA/channel check							■	■	■			■
CPRI/OBSAI test	Layer 1/2											■	■

FTTA and Mobile Backhaul Service Assurance and Monitoring	Tool Category	QT-600 Family	ONMSi
Metro-E (10 Mbps to 10 GE)	Remote Test and Monitor	■	
Mobile Backhaul (Ethernet)	Remote Test and Monitor	■	
Backhaul Monitoring (Fiber)	Remote Test and Monitor		■
Fronthaul Monitoring (Fiber)	Remote Test and Monitor		■