

## Test- and Measurement Solutions for FTTH PON Networks



Visual fault location (VFI / VFL) with visible red laser light. Introduced into the fiber, it can detect sharp bends, breaks, bad connectors and splices, and faults hidden in an OTDR's dead zone.





FTTH PON OTDRs and Troubleshooters are all-in-one solutions designed to make it easy for both novice and experienced technicians to troubleshoot, identify, locate and solve problems in FTTH PON or point-to-point networks. Using industry standard or user-specified pass/fail criteria, events are displayed as color-coded LinkMap icons to document the health of the network. FlexScan automates the test flow, shortens test times and simplifies result interpretation with error correction hints for the technician.



The FOCIS Flex camera makes connector inspection easy, fast and convenient. With a single button press, FOCIS Flex automatically focuses, captures and centers the end face image, applies pass/fail rules, and displays the evaluated connector image. Storage and data transfer are part of the function.

ation of GPON/EPON, video and XG/XGS PON as

well as 10GEPON.

Dirty ports cause a majority of network outages. Prevention by cleaning is so easy!

The One-Click® Cleaner is a user-friendly cleaning pen for cleaning LC and SC plugs and sockets in patch panels.





OTDR & Troubleshooter

Power Meter & Loss Testing

Fiber- & Fault-Finder

Inspection Camera & Cleaning



- PON optimized OTDR with additional insertion loss and power measurement function as well as VFL
- PON or point-to-point network verification and troubleshooting
- Color-coded icon display of fiber link events and faults
- Verification of PON splitters up to a split ratio of 1:64
- Verification of optical levels in GPON, video and XG/XGS-PON or 10GEPON networks
- Measures insertion loss, ORL, output and input levels





- Automatic and instant detection of up to 5 wavelengths - NO setup required!
- Measure PON upstream and downstream signals
- For enabling, testing and troubleshooting BPON, EPON, GPON, 10G-EPON, XG-PON, XGS-PON and video networks
- Pass/fail analysis of PON levels through adjustable limits
- Wave ID loss tests with up to three wavelengths simultaneously



- Live fiber detection avoids failures before live fibers are disconnected
- CW and tones for fiber identification and tracking during activation and installation
- Detection of traffic directions
- Identify fibers with high signal level (OFI-400HP)
- VFL: Eye-safe red light in visible range of 650 nm
- Identification of bad connections, e.g. UPC to APC
- Finding broken splices
- Detect errors in OTDR dead zones



- Inspect and clean APC and UPC, SC and LC connectors and bulkheads as well as E2000 and more
- Cordless and compact handheld inspection video microscope
- One button operation starts auto focus, centering, capture, analyze, save and send
- IEC-61300-3-35 pass/fail analysis
- Complete cleaning kits for Patch Cord Connectors & Patch Panel Adapters
- For effective wet and dry cleaning
- Other inspection adapter test tips and one-click pens on request

			SM	OTDR		Trou			
OTDR & Troubleshooter			FS200-303	FS200-300	FS200-60	TS100-75	TS100-70	TS100-60	Point-to-
Point-to- Point	Core	✓	✓	✓	✓				:
oint-to Point	Metro	✓	✓	✓	✓				
g <sub>r</sub>	Access	✓	✓	✓	✓	✓	✓	✓	
z	Dark	✓	✓	✓	✓	1	✓	✓	į
FTTx Pon	Live	✓	✓		✓	1	✓	✓	
Ě	Test to Splitter	✓	✓	✓	1	1	✓	✓	
iL.	Through Splitter	✓	✓	✓	✓	1	✓		
	Smart OTDR	✓	✓	✓	✓	✓	✓	✓	
	Expert OTDR	✓	✓	✓	✓				
	LinkMap	✓	✓	✓	✓	✓	✓	✓	
	Power Meter	ВВ	ВВ	ВВ	ВВ	2λ	2λ	2λ	ı
es	Light Source	✓	✓	✓		✓	✓	✓	
Features	VFL	✓	✓	✓	✓	✓	✓	✓	
Fe	Wavelength (nm)	1310/1550/1650	1310/1550/1625	1310/1550	1650	1625	1650	1650	-

	Power Meter & Loss Testing	FlowScout		< OPM4	OPM5-3D	OPMS-4D	✓ OLS2-DUAL		N OLS7-FTTH	
-t -t			I	✓	✓	✓	✓	✓	✓	ı
Point-to- Point	Metro		ı	✓	✓	✓	✓	✓	✓	ı
9 H	Access		ı	✓	✓	✓	✓	✓	✓	
z	Dark		ı	✓	✓	✓	✓	✓	✓	
FTTx PON	Up 1270/1310	✓	ı	(BB)	(BB)	(BB)				ľ
Ě	Dn 1490/1577	✓	ı	ВВ	ВВ	ВВ				
ш	Video 1550	✓	ı	ВВ	ВВ	ВВ				
	Power Meter	5λ	ı	ВВ	ВВ	ВВ				ı
	Light Source		ı				✓	✓	✓	ı
	WAVE ID		ı	✓	✓	✓	✓	✓	✓	ı
Features		1270/1310/1490/1550/1577		850/1300/1310/1490/1550/1625	850/1300/1310/1490/1550/1625	850/1300/1310/1490/1550/1625	1310/1550	1310/1550/1625	1310/1490/1550	
	SLP5-6	1270/3		850/1300	850/1300	850/1300	<b>✓</b>	-	1	
Kits	SLP5-FTTH		ı			1			1	
	additional		١	on	requ	est	on	requ	est	

				OFI					
	Fiber & Fault Identification	OFI-BIPMe	OFI-400	OFI-400 C	OFI-400 HP	VFI4 HP	VFI4 LP		
	MM & SM	✓	✓	✓	✓	1	✓		
Fiber Type	G.657	✓				✓	✓		
- - -	Ribbon	✓	✓						
ê.	1.1 - 1,7 mm Mantel	✓	✓			✓	✓		
	2.0 & 3.0 mm Mantel	✓	✓	✓	✓	✓	✓		
	CW	✓	✓	✓	✓	1	1		
S	2Hz					1	1		
Tones	330Hz	✓	✓	✓	✓				
F	270Hz/1kHz/2kH	✓	✓	✓	✓				
	Traffic Direction	✓	✓	✓	✓				
	Output Power (mW)					5	1		
S	2.5 / 1.25 mm Socket					✓	✓		
Features	Plunger	✓	✓	✓	✓				
eat	Fiber Identification	✓	✓	1	1				
ш.	Power Measurment	✓	✓	✓	НР				
	Identify bend, breaks					1	✓		

۱					0	ne Cli	ck		Cleaning tools			
l		Connector Inspection & Cleaning	✓ Focis Flex		Pen	Mini	Ultra	ı	Cletop	Stricks	Fluid	
I		PC/UPC & APC	✓		✓	✓	✓		✓	✓	✓	
П	Connector	SC	11		✓	✓	✓	ı	✓	✓	✓	
П	Jul P	LC	Ħ		✓	✓		ı	✓	✓	✓	
П	Ö	E2000	11		✓	✓	✓	ı		✓	✓	
L		weitere	Ħ		✓			ı	✓	✓	✓	
Н		PC/UPC & APC	✓		✓	✓	✓	ı		✓	✓	
Н	ad	SC	11		✓	✓	✓			✓	✓	
Н	Bulkhead	LC	Ħ		✓	✓		ſ		✓	✓	
Н	Bul	E2000	Ħ		✓	✓	✓	I		✓	✓	
Н		weitere	Ħ		✓			I		✓	✓	
I			✓					ı				
П		Display	✓					ı				
ı	Features	Auto-focus	✓					ı				
ı		IEC 61300-3-35	✓					ı				
		Save & Send	✓					ı				
	II: With appropriate adapter tip											