

OTP6123 Handheld OTDR

OTP6123 handheld OTDR series test set is designed for indoor laboratory and field application with light weighted, flexible and durable features. It is the best test tool for service providers validating on optical network installing phase or troubleshooting at running phase.



Highlights:

- ✧ Light weight , rugged, flexible for FTTx/MDU PON—network test
- ✧ Fast start up, high resolution color touch screen
- ✧ Friendly button design for flexible scrolling and selecting
- ✧ Covering all OTDR functions, dual-wavelength for different test demand
- ✧ Up to 250km distance range satisfy metro and access optical network test application

Key Features:

- ✧ High resolution color display, great visibility for easy reading and operating even under direct sunlight.
- ✧ Shockproof designed for field application
- ✧ Easy detecting and characterizing fiber with simple and friendly keys
- ✧ Covering all OTDR functions for whole optical link testing and maintaining
- ✧ PON OTDR supports maximum 4 wavelengths(1310/1490/1550/1625nm) for fiber testing, and automatically switching multi-wavelength OTDR testing
- ✧ Regular OTDR provides more flexible dynamic range: 40dB, 35dB and 30dB
- ✧ Event dead zone of 0.8m and attenuation dead zone of 7m for pinpoint event location
- ✧ Support VFL function and optional support optical power meter function

Model Selection

Product	Wavelength	Dynamic Range
OTP6123E	1310/1550nm	45/43dB
OTP6123H	1310/1550nm	40/39dB
OTP6123N	1310/1550nm	35/34dB
OTP6123L	1310/1550nm	30/28dB
OTP6123P	1310/1550/1625nm	39/37/38dB
OTP6123-a	1310/1490/1550nm	39/37/37dB
OTP6123-b	1310/1550/1650nm	39/37/38dB
OTP6123-c	1310/1490/1550/1625nm	39/37/37/38dB
OTP6123-d	1310/1490/1550/1650nm	39/37/37/38dB
OTP6123-e	1625nm	38dB
OTP6123-f	1650nm	38dB

SPECIFICATIONS

Regular OTDR Specifications					
		OTP6123E	OTP6123H	OTP6123N	OTP6123L
Wavelength(nm)		1310/1550	1310/1550	1310/1550	1310/1550
Dynamic Range (dB)		45/43	40/39	35/34	30/28
Pulse Width(ns)		3~20000	3~20000	3~20000	3~20000
Event Dead Zone (m)		≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8
Attenuation Dead Zone(m)		≤ 7/7	≤ 7/7	≤ 7/7	≤ 7/7
Linearity(dB/dB)		± 0.03	± 0.03	± 0.03	± 0.03
Loss Threshold(dB)		0.01	0.01	0.01	0.01
Loss Resolution (dB)		0.001	0.001	0.001	0.001
Sampling Resolution (m)		0.125 ~ 1	0.125 ~ 1	0.125 ~ 1	0.125 ~ 1
Sampling Points		256K	256K	256K	256K
Distance Uncertainty (m)		± (0.75+0.0010% xdistance+ sampling resolution)			
Distance Range(km)		≤ 250	≤ 200	≤ 180	≤ 150
Typical Real-time Refresh(Hz)		0.03	0.03	0.03	0.03
Memory Capacity		500 traces	500 traces	500 traces	500 traces
Measurement Time		10s~180m ,user-defined			
VFL	Output	+3	+3	+3	+3
Optical Power Meter	Measurement Range (dBm)	+ 10 to - 60	+ 10 to - 60	+ 10 to - 60	+ 10 to - 60
Optical	Wavelength Range(nm)	780 to 1800	780 to 1800	780 to 1800	780 to 1800
PHYSICAL SPECIFICATIONS					
Temperature		Operating: -10°C to 50°C; storage: -40°C to 70°C			
Relative Humidity		0% to 95% (non-condensing)			
Size (HxWxD)		80 mm x 135 mm x 250 mm			
Weight		1.1 kg			
Power Supply		Li-Ion batteries 8 hours of continuous operation as per Bellcore TR-NWT-001138			

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PON OTDR Specifications								
		OTP6123P	OTP6123-a	OTP6123-b	OTP6123-c	OTP6123-d	OTP6123-e	OTP6123-f
Wavelength(nm)		1310/1550/1625	1310/1490/ 1550	1310/1550 /1650	1310/1490/ 1550/1625	1310/1490/ 1550/1650	1625	1650
Dynamic Range (dB)		39/37/38	39/37/37	39/37/38	39/37/37/38	39/37/37/38	38	38
Pulse Width(ns)		3~20000	3~20000	3~20000	3~20000	3~20000	3~20000	3~20000
Event Dead Zone (m)		≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8
Attenuation Dead Zone(m)		≤ 7/7/7	≤ 7/7/7	≤ 7/7/7	≤ 7/7/7/7	≤ 7/7/7/7	≤ 7	≤ 7
Linearity(dB/dB)		± 0.03	± 0.03	± 0.03	± 0.03	± 0.03	± 0.03	± 0.03
Loss Threshold(dB)		0.01	0.01	0.01	0.01	0.01	0.01	0.01
Loss Resolution (dB)		0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sampling Resolution (m)		0.125~ 1	0.125 ~ 1	0.125 ~1	0.125 ~1	0.125 ~ 1	0.125~ 1	0.125 ~1
Sampling Points		256K	256K	256K	256K	256K	256K	256K
Distance Uncertainty		± (0.75+0.0010% ×distance+ sampling resolution)						
Distance Range(km)		≤ 180	≤ 180	≤ 180	≤ 180	≤ 180	≤ 180	≤ 180
Typical Real-time Refresh(Hz)		0.03	0.03	0.03	0.03	0.03	0.03	0.03
Memory Capacity		500 traces	500 traces	500 traces	500 traces	500 traces	500 traces	500 traces
Measurement Time		10s~180m, user defined						
VFL	Output Power	+3	+3	+3	+3	+3	+3	+3
Optical	Measurement	+10 to -60	+10 to -60	+10 to -60	+10 to -60	+10 to -60	+10 to -60	+10 to -60
Optical	Wavelength	780 to1800	780 to1800	780 to1800	780 to1800	780 to1800	780 to1800	780 to1800
PHYSICAL SPECIFICATIONS								
Temperature		Operating: -10°C to 50°C; storage: -40°C to 70°C						
Relative Humidity		0% to 95% (non-condensing)						
Size (H×W×D)		80 mm x 135 mm x 250 mm						
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Power Supply		Li-Ion batteries 8 hours of continuous operation as per Bellcore TR-NWT-001138						