

APOLLO 7 SERIES

HANDHELD OTDR TEST SET

The Apollo 7 series are handheld OTDR test sets. The Apollo 7 OTDR's provides comprehensive optical test for metro, access/FTTx, and LAN network. The Apollo 7 OTDR's are designed for indoor and outdoor testing with lightweight, flexible and rugged features. It is optimal test set for service providers validating at installing phase or troubleshooting at running phase.



- Lightweight, rugged, flexible for field testing
- Fast start-up, high resolution color touch display
- Friendly keystroke designed for easy, flexible input and select
- Covering all OTDR functions, dual-wavelength for different test demand
- More comprehensive test features with higher performance-to-price ratio
- 200km distance range satisfy metro and access optical network test application
- FTTx/MDU PON—network test

Lightweight and Flexible Designed, Simple and Efficient Test



Apollo 7 handheld OTDR test set accommodates multi-configuration for different user demand which is more flexible.

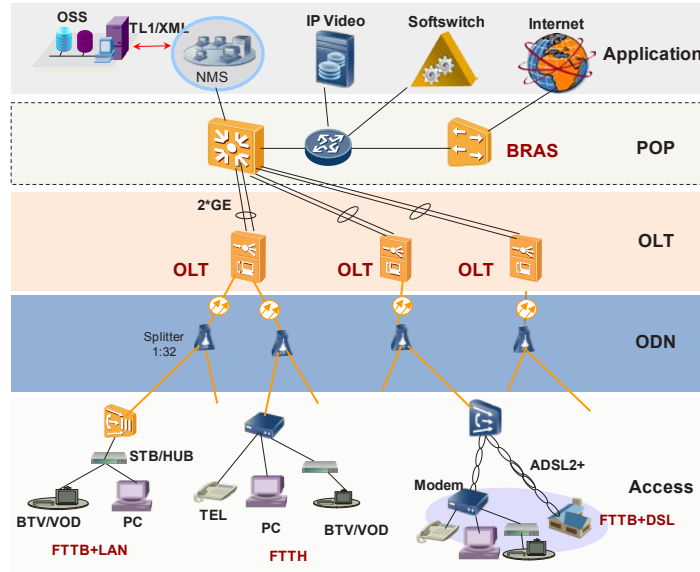
Product	Wavelength	Dynamic Range
APOLLO7A	1310/1550nm	40/39dB
APOLLO7B	1310/1550nm	35/34dB
APOLLO7C	1310/1550nm	30/28dB
APOLLO7D	1310/1550/1625nm	39/37/38dB
APOLLO7E	1310/1490/1550nm	39/37/37dB
APOLLO7F	1310/1550/1650nm	39/37/38dB
APOLLO7G	1310/1490/1550/1625nm	39/37/37/38dB
APOLLO7H	1310/1490/1550/1650nm	39/37/37/38dB

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 Fibre 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 fibre testing, and automatic switching multi-wavelength OTDR testing.
- Regular OTDR provides a more flexible dynamic range: 40dB, 35dB and 30dB.
- Event dead zone of 0.8m and attenuation dead zone of 7m for pinpoint event location.
- Supports VFL function and optional support optical power meter function.

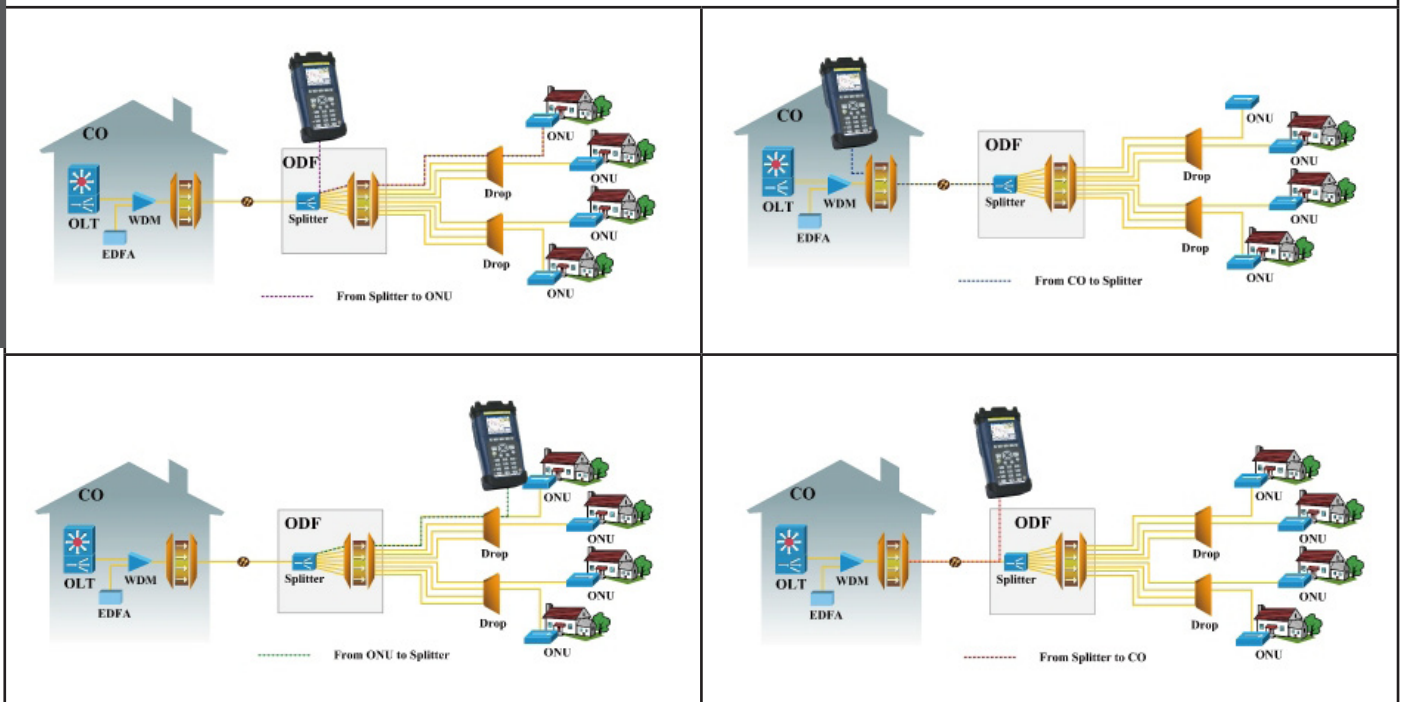
FIBRE OPTICAL NETWORK TESTING

An OTDR has become a must test equipment for installing, monitoring and troubleshooting of optical network. As increasingly demand of high bandwidth service, fibre optical network is rapidly expanding. The APOLLO 7 handheld OTDR test set provides more comprehensive fibre test functions and more accurate test results, which will assist network with easy installation, operation and maintenance of fibre optic networks.



OTDR Tests

During installation, OTDR testing should be performed after the installation of every single cabled fibre section. The Apollo 7 handheld OTDR test set supports OTDR test of each section in a fibre optical network with accurate test results.



Testing of fibre optical networks with the Apollo 7 OTDR simultaneously will ensure optimum performance of the network. The Apollo 7 handheld test set performs 6 functions of fibre link, such as loss, optical power, ORL and fault location.

APOLLO 7 SERIES OTDR SPECIFICATIONS

SPECIFICATIONS

Regular OTDR Specifications

		APOLLO7A	APOLLO7B	APOLLO7C
Wavelength (nm)		1310/1550	1310/1550	1310/1550
Dynamic Range (dB)		40/39	35/34	30/28
Pulse Width (ns)		3~20000	3~20000	3~20000
Event Dead Zone (m)		≤0.8	≤0.8	≤0.8
Attenuation Dead Zone (m)		≤ 7/7	≤ 7/7	≤ 7/7
Linearity (dB/dB)		±0.03	±0.03	±0.03
Loss Threshold (dB)		0.01	0.01	0.01
Loss Resolution (dB)		0.001	0.001	0.001
Sampling Resolution (m)		0.125~1	0.125~1	0.125~1
Sampling Points		256K	256K	256K
Distance Uncertainty(m)		±(0.75+0.0010%×distance + sampling resolution)		
Distance Range (km)		≤ 200	≤ 180	≤ 150
Typical Real-time Refresh(Hz)		0.03	0.03	0.03
Memory Capacity		500 traces	500 traces	500 traces
Measurement Time		10s~180m, user defined	10s~180m, user defined	10s~180m, user defined
VFL	Output Power(dBm)	+3	+3	+3
Optical Power Meter	Output Power(dBm)	+10 to -60	+10 to -60	+10 to -60
	Wavelength Range (nm)	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 (H×W×D)	80mm x 135 mm x250 mm
Weight	1.1kg
Power	Li-Ion batteries 8 hours of continuous operation as per Bellcore TR-NWT-001138

APOLLO 7 SERIES OTDR SPECIFICATIONS

SPECIFICATIONS					
PON OTDR Specifications					
	APOLLO7D	APOLLO7E	APOLLO7F	APOLLO7G	APOLLO7H
Wavelength (nm)	1310/1550/ 1625	1310/1490/ 1550	1310/1550/ 1650	1310/1490/ 1550/1625	1310/1490/ 1550/1650
Dynamic Range (dB)	39/37/38	39/37/37	39/37/38	39/37/37/38	39/37/37/38
Pulse Width (ns)	3~20000	3~20000	3~20000	3~20000	3~20000
Event Dead Zone (m)	≤ 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
Linearity (dB/dB)	±0.03	±0.03	±0.03	±0.03	±0.03
Loss Threshold (dB)	0.01	0.01	0.01	0.01	0.01
Loss Resolution (dB)	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
Sampling Points	256K	256K	256K	256K	256K
Distance Uncertainty(m)	$\pm(0.75+0.0010\% \times \text{distance} + \text{sampling resolution})$				
Distance Range (km)	≤ 180	≤ 180	≤ 180	≤ 180	≤ 180
Typical Real-time Refresh(Hz)	0.03	0.03	0.03	0.03	0.03
Memory Capacity	500 traces	500 traces	500 traces	500 traces	500曲线
Measurement Time	10s~180m, user defined	10s~180m, user defined	10s~180m, user defined	10s~180m, user defined	10s~180m, 用户自定义
VFL Output Power(dBm)	+3	+3	+3	+3	+3
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)	80mm x 135 mm x250 mm				
Weight	1.1kg				
Power	Li-Ion batteries 8 hours of continuous operation as per Bellcore TR-NWT-001138				

APOLLO 7 SERIES OTDR SPECIFICATIONS

ORDERING INFORMATION		
Category	Model	Description
Standard Configuration		
Main Frame	APOLLO7A	Dual-wavelength 1310/1550nm OTDR tester, dynamic range 40/39dB.
	APOLLO7B	Dual-wavelength 1310/1550nm OTDR tester, dynamic range 35/34dB.
	APOLLO7C	Dual-wavelength 1310/1550nm OTDR tester, dynamic range 30/28dB.
	APOLLO7D	Tri-wavelength 1310/1550/1625nm PON OTDR tester, dynamic range 39/37/38dB.
	APOLLO7E	Tri-wavelength 1310/1490/1550nm PON OTDR tester, dynamic range 39/37/37dB.
	APOLLO7F	Tri-wavelength 1310/1550/1650nm PON OTDR tester, dynamic range 39/37/38dB.
	APOLLO7G	Qua-wavelength 1310/1490/1550/1625nm PON OTDR tester, dynamic range 39/37/37/38dB.
	APOLLO7H	Qua-wavelength 1310/1490/1550/1650nm PON OTDR tester, dynamic range 39/37/37/38dB.
Battery	LB03V10S0103	One 1 parrallel 3 series Lithium polymer rechargeable battery for OTP6100, 10.8V.
Power Adapter	SA148A-24V	One 24V AC/DC, power adapter for OTP6100.
Power Cable	OA1611PWR_2M	One 2-mete-long power cable.
Disc	OA1808_6123_CD	One KXT8000 disc.
Package	OBG6100	One KXT6100 package.
Fibre Jumper	FCFC-0103	One FC/FC port, single-mode, simplex, 9/125, 3-meter-long.
VFL Function	OPAP-VFLatOTDR	OTDR red light VFL testing option.
Optional Configuration		
Functional Option	OPAP-PMatOTDR	OTDR optical power PM testing option.
	OPAP-LSatOTDR	OTDR single-mode optical source testing option.
	OPAP-iOTA	Intelligent fibre link topology analyzer option.
	OPAP-iNET	Intelligent network performance tool option.