Palm OTDR

Application

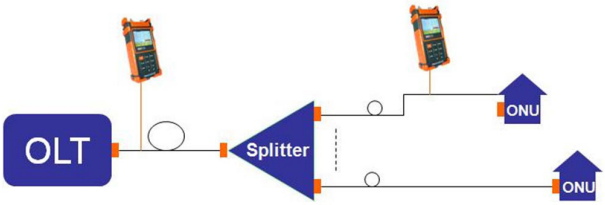
The Palm OTDR is full featured palm sized hand held OTDR. Its small size and light weight makes this the ideal choice for a truly portable instrument.
An excellent list of features and specifications makes the Palm OTDR suitable for both the occasional user and full time use applications.

Key Features

- Ideal for LAN/WAN/FTTx certification & trouble-shooting
- FTTx in-service testing/ Testing through ≥1×64 splitter
- Splitter & fiber-end identifiable
- Handheld & lightweight (only 1kg)
- Quick start: <5 seconds
- Hotkeys: Easiest operation in the world, push -and-test
- High precision measurement, 1000 test records storage
- USB/RS-232 data interface
- Bellcore file format (.sor)
- PC software for traces, batch editing & flexible printing
- 8 hrs continuous operation/20 hrs standby
- Dust-shock proof (2m drop test)

In-Service Optical Signal Check

When testing with 1310/1490/1550nm wavelengths the in-service signals being transmitted in the fibre being tested may cause damage to the OTDR or to the end equipment. The Palm OTDR detects these signals and alerts the operator with a warning message allowing the operator to abort if necessary.



In-service testing (1625nm with filter)

Testing through ≥1×64 splitter, splitter and fiber end identifiable

Optimal Cable Services Pty. Ltd.

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Specifications

Model[1]	Wavelength	Dynamic Range[2]	Event Deadzone[5]	Attenuation Deadzone[5]
palmOTDR- M20A/N	850/1300	18/22dB	7[6]	20[6]
palmOTDR- S20A/N	1310/1550	24/24dB	10	25
palmOTDR- S20B/N	1310/1550	32/32dB	2.5	14
palmOTDR- S20C/N	1310/1550	38/37dB	2.5	14
palmOTDR- S20C/N+	1310/1550	45/43dB	2.5	14
palmOTDR- S16C/N	1625	37dB	1.5	10
palmOTDR- S20C/P	1310/1490/1550	38/37/37dB	2.5	14
palmOTDR- S20C/X	1310/1550/1625	38/37/37dB	1.5	10
Selectable Range (Km) [3]	850nm - 0.1,0.3,0.5,1.3,2.5,5,10 1300nm - 0.1,0.3,0.5,1.3,2.5,5,10,20,40,80 1310,1490, 1550, 1625nm - 0.3,1.3,2.5,5,10,20,40,80,120,160,240			
Pulse Width [4]	850nm - 12ns,30ns,100ns,275ns,1μs 1300nm - 12ns,30ns,100ns,275ns,1μs,2.5μs 1310,1490, 1550, 1625nm - 5ns,10ns,12ns,30ns,100ns,275ns,300ns,1μs,2.5μs,10μs,20μs			
Averaging Time	15s,30s,1min,2min,3min			
Distance Measure Accuracy	±(1m + $5\times10^{-5}\times$distance + sampling space)			
Attenuation Detect Accuracy	±0.05 dB/ dB			
Reflection Detect Accuracy	±4 dB			
Data Storage	1000 records			
Connectivity	USB/RS-232			
Connector	FC/PC (Interchangeable SC, ST)			
Power Supply	NiMH Battery / AC Adapter			
Operating Temperature	0°C ~ 50°C			
Storage Temperature	-20°C ~ 70°C			
Relative Humidity	0~95% (non-condensing)			
Dimensions (H×W×D)	220×110×70mm			

(1) Specifications describe the instrument's warranted performance, measured with typical PC-type connectors. Uncertainties due to the refractive index of fiber are not considered;
(2) The dynamic range is measured at maximum pulse width within averaging time of 3 minutes;
(3) Among the selectable ranges 160km and 240km are only for type B, C; 120Km is only for type A;
(4) Among the pulse widths 5ns, 10ns, 300ns, 10us and 20us are only available for type B, C; 12ns and 275ns are only for type A;
(5) Conditions for dead zone measurement: For type A, reflection events are within a range of 2.1Km, reflection intensity is less than -35dB, measured at pulse width of 30ns; For type B, C, reflection events are within a range of 0.6Km, reflection intensity is less than -45dB, measured at pulse width of 10ns (event dead zone) and 30ns (attenuation dead zone);
(6) Conditions for dead zone measurement: When reflection events are within a range of 1km, reflection intensity is less than -32dB; and the dead zone is measured at pulse width of 12ns.

Ordering Details

OPT-palm- M20A/N	850/1300nm	18/22dB
OPT-palm- S20A/N	1310/1550nm	24/24dB
OPT-palm- S20B/N	1310/1550nm	32/32dB
OPT-palm- S20C/N	1310/1550nm	38/37dB
OPT-palm- S20C/N+	1310/1550nm	45/43dB
OPT-palm- S16C/N	1625nm	37dB
OPT-palm- S20C/P	1310/1490/1550nm	38/37/37dB
OPT-palm- S20C/X	1310/1550/1625nm	38/37/37dB

Standard Package Includes:
Palm OTDR
FC/PC connector
NiMH battery
TraceManager software CD
Data cable(USB/RS-232)
AC adaptor
Soft carrying case
Warranty card
Certificate of calibration
Quick reference guide.

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