kbling

UK PALM OTDR

Most Compact High-Performance OTDR

- Comprehensive fiber applications, ideal for LAN/WAN/FTTx certification & trouble-shooting: SM: 1310/1490/1550, 1625/1650nm (with filter), up to 45dB MM: 850/1300nm, 21/24dB

- Fault locating, fiber length/loss measurement, connector/ splice/ splitter/ macro bend/fiber-end detection.

- Built-in PON Power Meter for Triple-play live measurement.

- Optional Stabilized Laser Source, SM/MM Power Meter and VFL.

- FTTx in-service testing/ Testing through splitter: (1625/1650nm with filter)

- Splitter & fiber-end identifiable.

- Auto/Manual(2-point/5-point)/Averaging/Real-time test.

- Pass/Fail assessment and ORL test function.

- Quick start: <5 seconds.

- Perfect user interface, handheld & lightweight (1kg)

- Hotkeys: Easiest operation in the world, push-and-test.

- 1000 test records storage.

- Bellcore file format (.sor)

- PC software for batch data processing.

- USB/RS-232 data interface, driver-free.

- Multiple languages: EN/DE/IT/FR/ES/PT/RU/KR/VN/CN etc.

- 8 hrs continuous operation/20 hrs standby.

- Dust-shock proof (2m drop test)

- CE, FCC, FDA certificates

The compact palmOTDR now offers even more testing capacities, flexibility and value with combination of 850/1300/1310/1490/1550/1625/1650nm (Mono/double/triple wavelength) OTDR, 1310/1490/1550nm PON Power Meter, Stabilized Laser Source and VFL. The OTDR wavelengths cover the applications of regular end-to-end fiber characterization (1310/1550nm), premise/enterprise LAN testing (850/1300nm), FTTx fiber link construction verification (1490nm) and PON live fiber troubleshooting (1625/1650nm with filter). The integrated PON Power Meter can perform in-service testing of all PON signals (1310/1490/1550nm) on any spot of the network featuring pass-through design and burst mode support. palmOTDR is your ultimate solution to meet various testing requirements of entire fiber network.

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General Specifications

Model [1]	Wavelenght (± 20nm)	Dinamic Range [2]	Event DeadZone (m) [3]	Attenuation DeadZone (m) [3]
Palm OTDR - UK 20 C/P	1310/1490/1550	38/37/37 dB	2,5	14
Palm OTDR - UK 20 C/X	1310/1550/1625	38/37/37 dB	1,5	10
Palm OTDR - UK 20 C/E	1310/1550/1650	38/37/37 dB	1,5	10
Palm OTDR - UK P11 C	1625	37 dB	1,5	10
Palm OTDR - UK P13 C	1650	37 dB	1,5	10
Palm OTDR - UK P31 C	1310/1550/1625	38/37/37 dB	1,5	10
Palm OTDR - UK P33C	1310/1490/1550/1625	38/37/37 dB	1,5	10
Selectable Range (Km) [4]	0.1, 0.3, 0.5, 1.3, 2.5, 5, 10 @ 850 nm; 0.1, 0.3, 0.5, 1.3, 2.5, 5, 10, 20, 40, 80 @ 1300 nm; 0.3, 1.3, 2.5, 5, 10, 20, 40, 80, 120, 160, 240 @ others			
Pulse Width [5]	12ns, 30ns, 100ns, 275ns, 1us @ 850 nm; 12ns, 30ns, 100ns, 275ns, 1us, 2,5 us @ 1300 nm; 5ns, 10ns, 12ns, 30ns, 100ns, 275ns, 300ns, 1us, 2,5 us, 10us, 20us @ others			
Averaging Time	Quick, 15s, 30s, 1min, 2min, 3min			
Distance Measure Accuracy	$\pm(1m + 5 \times 10^5 \times \text{distance} + \text{sampling space})$			
Attenuation Detect Accuracy	±0.05 dB/dB			
Reflection Detect Accuracy	±4 dB			
Data Storage	1000 records			
Connectivity	USB/RS-232			
Connector	FC (Interchangeable SC, ST)			
Power Supply	NiMH Battery / AC Adapter			
Battery Life	8 hrs continuous operation, 20 hrs standby (on one charge); recharging time < 4 hrs			
Operating Temperature	0°C~ 50°C			
Storage Temperature	-20°C~ 70°C			
Relative Humidity	0~95% (non-condensing)			
Weight	1kg (2.2 lbs)			
Dimensions (HxWxT)	220x110x70mm (8.7x4.3x2.7 inch)			

Functional Module Specifications

Visible Fault Locator Module [6]			
Wavelength (±20nm)	650 nm		
Output Power (dBm)	≥-3		
Max Measurement Range	5 Km		
Stabilized Laser Source Module [7]			
Wavelength (±20nm)	Same as OTDR working wavelength [8]		
Output Power (dBm)	≥-7		
Optical Powwer Meter Module [9]			
Calibrated Wavelength (nm)	850, 1300, 1310, 1490, 1550, 1625		
Power Range (dBm)	-70~+6 (-60~+6 @ 850nm)		
Detector Type	InGaAs		
Display Resolution	0.01dB		
Accuracy	± 5% ± 0.01 nW(±0.5dB @ 850nm)		
MOD Identification	1K, 2KHz		
PON Powwer Meter Module [10]			
Calibrated Wavelength	1310 nm	1490 nm	1550 nm
Measurement Range (dBm)	-40~+8 (Burst mode -30~+8)	-40~+8	-40~+20
Spectral Passband (nm)	1310 ± 40	1490 ± 10	1550 ± 50
Power Uncertainty (dB)	≤ 0.5		
Display Resolution	0.01dB		
Accuracy	± 5%±0.01nW (±0.5dB@850nm)		
Insertion Loss (dB)	≤ 1.5		
Threshold	60 user definable threshold sets		
Data Storage	1200 Records		

Specifications subject to change without notice

Notes:

(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) Conditions for dead zone measurement: Reflection event is at 0.6Km, reflection intensity is less than -45dB, event dead zone is measured with pulse width of 10ns (type A with 12ns); attenuation dead zone is measured with pulse width of 30ns.

(4) Among the selectable ranges 160 and 240km are only for type B, C & D; 120Km is only for type A.

(5) Among the pulse widths 5ns, 10ns, 300ns, 10us and 20us are only available for type B, C & D; 12ns and 275ns are only for type A.

(6) Visible fault locator module is standard on 20BE, 20C/N and 20D/N; optional on 20AE, 20AE, 20C/P, 20C/X, 20C/E 11 C and 13C.

(7) Stabilized laser source module is optional on all models.

(8) Stabilized laser source shares palm OTDR optical port and work on the same working wavelength of palm OTDR

(9) Optical power meter module is optional on 20AE, 20AE, 20BE, 20C/N, 20D/N, 20C/P, 20C/X and 20C/E.

(10) PON power meter module is standard on 11C, 13C, 31C and 33C.

Standard Package Includes:

Instrument, FC/PC connector, NiMH battery, TraceManager software CD, Data cable (USB/RS-232), AC adaptar, Soft carrying case, Warranty card, CE certificate, Certificate of calibration , Quick reference guide.