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Test & Measurement

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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

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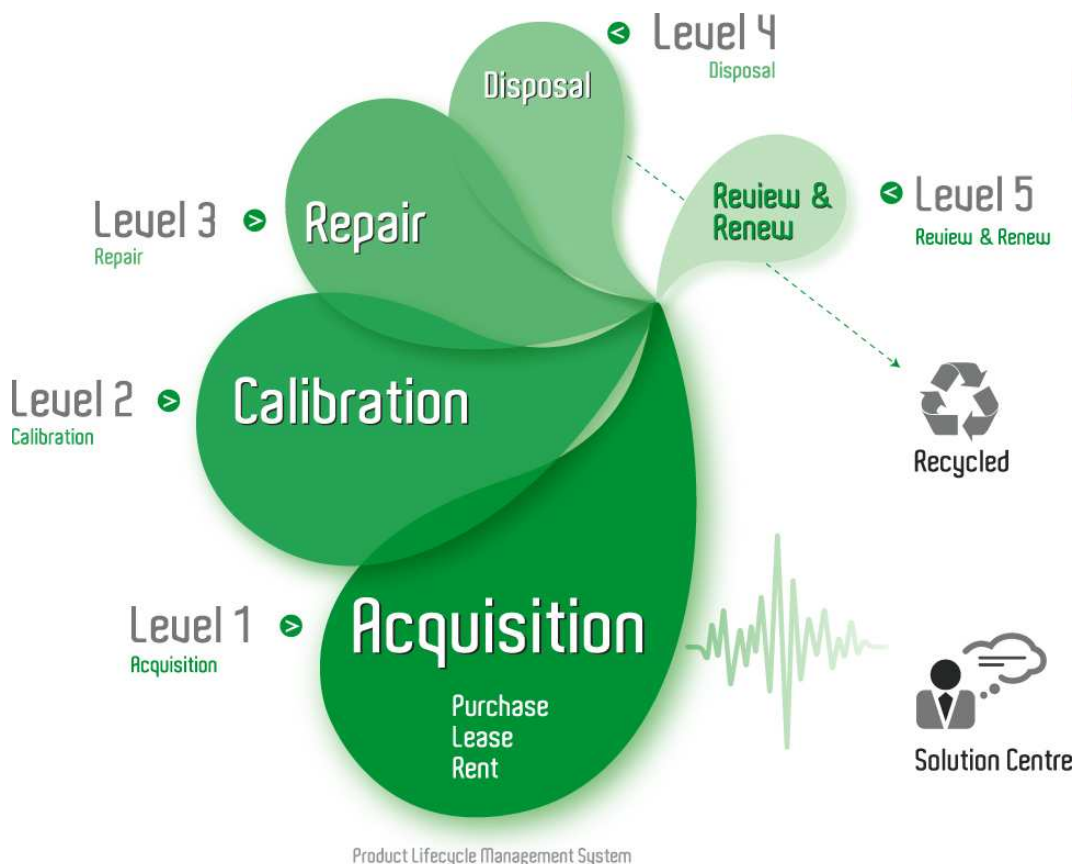
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Product Lifecycle Management System

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DTX Compact OTDR Specifications

Key Specifications	
Dimensions (Mainframe with Compact OTDR installed)	21.6 cm x 11.2 cm x 9.1 cm (8.5 in x 4.4 in x 3.6 in) nominal
Weight (Mainframe with DTX Compact OTDR installed)	1.36 kg (3 lbs)
Display size	9.4 cm (3.7 in) diagonal, 240 dots wide by 320 dots high, passive color, transmissive LCD with backlight.
Case	High-impact plastic with shock absorbing over mold (mainframe)
Languages supported	English, French, German, Spanish, Portuguese, Italian, Japanese, and Simplified Chinese
Operating temperature	0° C to 45° C (32° F to 113° F)
Non-operating temperature (storage)	-20° C to 60° C (-4° F to 140° F)
Relative humidity (% RH operating without condensation)	0° C to 35° C (32° F to 95° F): 0% to 90% 35° C to 45° C (95° F to 113° F): 0% to 70%
Trace file format	LinkWare or Bellcore GR-196 V1.1
Typical trace storage capability	>200 internal, thousands on removable MMC/SD card
Altitude (OTDR module)	Operating 3000 m; storage 12000 m
EMC	EN 61326-1
OTDR laser safety	Class I CDRH, complies to EN 60825-2
Battery pack	Removable/rechargeable 7.4 V, 4000 mAh Li Lithium-ion
Battery pack life	>8 hours
Charge time* (with tester off)	4 hours (below 40° C)
Vibration	Random, 2 g, 5-500 Hz
Shock	1 meter drop test with and without module attached to mainframe
Safety class	Class I C , Class 1 CDRH complies to EN60825-2
Safety	CSA C22.2 No. 1010.1: 1992, EN 61010-1 1st. edition + amendments 1, 2
Calibration	Service center calibration period is one year



DTX Compact OTDR

VFL specifications (23° C)	
Output power (into SM fiber)	316 μw (-5 dBm) ≤ peak power ≤ 1.0 mw (0 dbm)
Operating wavelength	650 nm nominal
Spectral width (RMS)	±3 nm
Output modes	Continuous wave and pulse mode (2-3 Hz blink frequency)
Connector adapter	2.5 mm universal
VFL laser safety	Class II CDRH

Make every technician a fiber expert

Extended specifications	Multimode	Singlemode
OTDR port connector	Cleanable ferrule, UPC polish, with removable SC adapter	Cleanable ferrule, UPC polish, with removable SC adapter
Fiber under test	50/125 μ m or 62.5/125 μ m multimode	9/125 μ m singlemode
Emitter type	Laser	Laser
Wavelengths	850 \pm 20 nm and 1300 \pm 30 nm	1310 \pm 30 nm and 1550 \pm 30 nm
Dynamic range*^{1,9}	850 nm: 24 dB with 200ns, 1300 nm: 26 dB with 1 us	1310 nm: 26 dB with 10 us, 1550 nm: 24 dB w/ 10 us
Event deadzone*²	850 nm: 3.7m typical, 1300 nm: 3.5 m typical	1310 nm: 3.5 m typical, 1550 nm: 3.5 m typical
Attenuation deadzone*³	850 nm: 10 meters, 1300 nm: 13 meters	1310 nm: 10 meters, 1550 nm: 12 meters
Pulse widths (nominal)	850 nm: 20ns, 40 ns, 100 ns, 300 ns. 1300 nm: 20ns, 40 ns, 100 ns, 300 ns, 1us	1310/1550: 40 ns, 100 ns, 300 ns, 1 us, 3 us, 10 us
Max distance range*^{4,5,6}	850 nm: 6 km, 1300 nm: 20 km	1310 nm: 20 km, 1550 nm: 20 km
Linearity*⁷	\pm 0.05 dB/dB	\pm 0.05 dB/dB
Loss threshold	0.01 dB to 1.5d B (settable in .01 dB increments)	0.01 dB to 1.5 dB (settable in .01 dB increments)
Sample resolution	3 cm to 4 m	3 cm to 4 m
Distance accuracy	\pm 1 m \pm 0.005% of distance \pm 50% of resolution \pm IOR error \pm event location error	\pm 1 m \pm 0.005% of distance \pm 50% of resolution \pm IOR error \pm event location error
Testing speed per wavelength	Auto OTDR: <15 seconds typical Manual OTDR: 15 sec – 3 minutes	Auto OTDR: <15 seconds typical Manual OTDR: 15 sec – 3 minutes
Reflectance accuracy*⁸	\pm 4 dB	\pm 4 dB

*All specifications are valid at 23° C and subject to change without notice.

1. Displayed dynamic range; SNR=1, 3 minutes averaging.
2. Measured at 1.5 dB below non saturating peak for typical UPC connector (reflectance < -40dB multimode and < 50 dB singlemode); using 20ns width (not including dispersion).
3. Measured at +/- 0.5 dB beyond backscatter for typical UPC connector (reflectance < -40dB multimode and < 50 dB singlemode); using 20ns width (not including dispersion).
4. 3 dB above the noise floor.
5. Typical fiber attenuation with no significant event losses.
6. Typical backscatter coefficients.
7. Applies to the expected backscatter region (over the range of 0.1dB to 20db below saturation).
8. Does not include error due to backscatter coefficient not applicable for hidden events or saturating reflection peaks.



DIX with OTDR module attached and launch fiber

NETWORK SUPERVISION

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