















<b>Sampling Resolution</b>	Minimum 5cm
<b>Sampling Point</b>	Maximum 128,000 points
<b>Linearity</b>	$\leq 0.05\text{dB/dB}$
<b>scale Indication</b>	X axis: 4m~70m/div, Y axis: Minimum 0.09dB/div
<b>Distance Resolution</b>	0.01m
<b>Distance Accuracy</b>	$\pm(1\text{m}+\text{measuring distance}\times 3\times 10^{-5}+\text{sampling resolution})$ (excluding IOR uncertainty)
<b>Reflectance Accuracy</b>	Single mode: $\pm 2\text{dB}$ , multi-mode: $\pm 4\text{dB}$
<b>IOR Setting</b>	1.4000~1.7000, 0.0001 step
<b>Units</b>	Km, miles, feet
<b>OTDR Trace Format</b>	Telcordia universal, SOR, issue 2 (SR-4731) OTDR: User selectable automatic or manual set-up
<b>Testing Modes</b>	Visual fault locator: Visible red light for fiber identification and troubleshooting Light source: Stabilized Light Source (CW, 270Hz, 1kHz, 2kHz output) Field microscope probe
<b>Fiber Event Analysis</b>	-Reflective and non-reflective events: 0.01 to 1.99dB (0.01dB steps) -Reflective: 0.01 to 32dB (0.01dB steps) -Fiber end/break: 3 to 20dB (1dB steps)
<b>Other Functions</b>	Real time sweep: 1Hz Averaging modes: Timed (1 to 3600 sec.) Live Fiber detect: Verifies presence communication light in optical fiber Trace overlay and comparison

### VFL Module (Visual Fault Locator, as standard function)

<b>Wavelength (<math>\pm 20\text{nm}</math>)</b>	650nm
<b>Power</b>	10mw, CLASS III B
<b>Range</b>	12km
<b>Connector</b>	FC/UPC



Launching Mode	CW/2Hz
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### PM Module (Power Meter, as standard function)

Wavelength Range ( $\pm 20\text{nm}$ )	800~1700nm
Calibrated Wavelength	850/1300/1310/1490/1550/1625/1650nm
Test Range	Type A: -65~+5dBm (standard); Type B: -40~+23dBm (optional)
Resolution	0.01dB
Accuracy	$\pm 0.35\text{dB} \pm 1\text{nW}$
Modulation Identification	270/1k/2kHz, $P_{\text{input}} \geq -40\text{dBm}$
Connector	FC/UPC

### LS Module (Laser Source, as optional function)

Working Wavelength ( $\pm 20\text{nm}$ )	1310/1550/1625nm <sup>⑤</sup>
Output Power	Adjustable -25~0dBm
Accuracy	$\pm 0.5\text{dB}$
Connector	FC/UPC

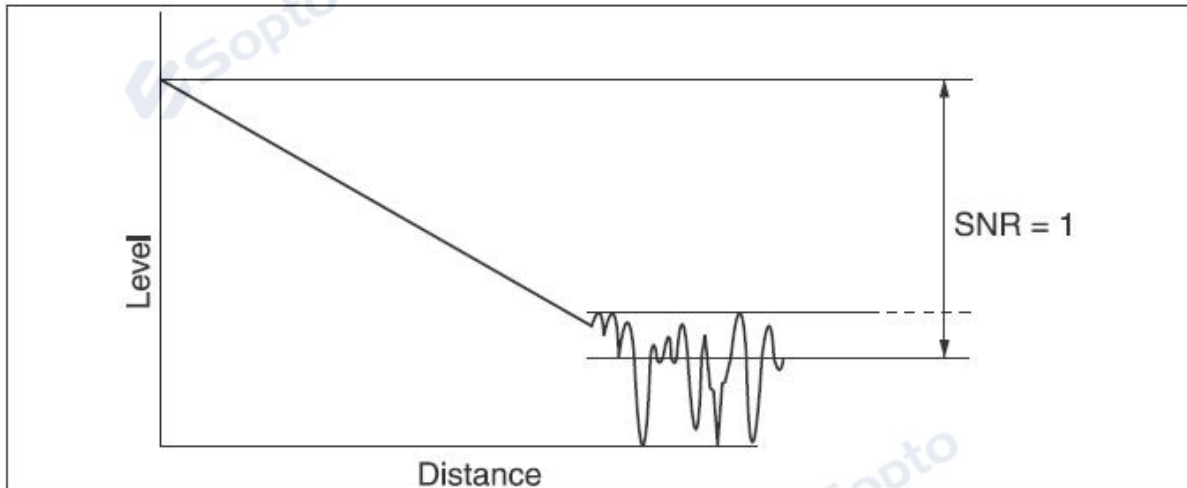
### FM Module (Fiber Microscope, as optional function)

Magnification	400X
Resolution	1.0 $\mu\text{m}$
View of Field	0.40 $\times$ 0.31mm
Storage/working Condition	-18 $^{\circ}\text{C}$ ~35 $^{\circ}\text{C}$
Dimension	235 $\times$ 95 $\times$ 30mm
Sensor	1/3 inch 2 million of pixel
Weight	150g
USB	1.1/2.0
Adapter <sup>⑥</sup>	SC-PC-F (For SC/PC adapter) FC-PC-F (For FC/PC adapter) LC-PC-F (For LC/PC adapter)

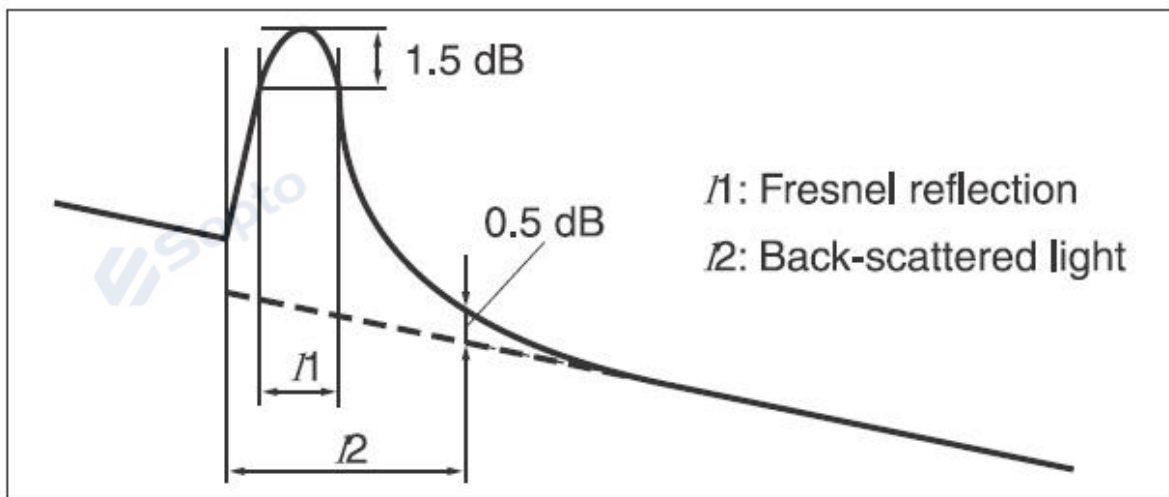
2.5PC-M (For 2.5mm connector, SC/PC, FC/PC, ST/PC)

**Notes:**

- ① Typical, backlight off, sweeping halted at 25°C, 12 hours typical continuous testing.
- ② Customized Models are integrated with optical filter, which allow them to test PON network online (by using 1625nm wavelength) and will not interrupt the fiber signal.
- ③ Dynamic range is measured with maximum pulse width, averaging time is 3 minutes, SNR=1; The level difference between the RMS noise level and the level where near end back-scattering occurs.



- ④ Event dead zone is measured with pulse width of 3ns; attenuation dead zone is measured with pulse width of 5ns.

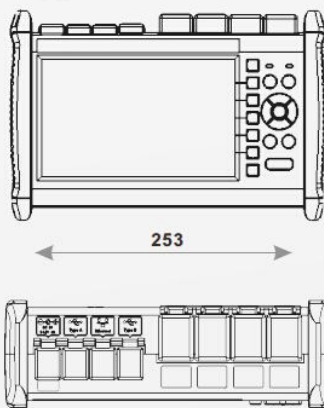


- ⑤ 1310/1550nm laser source uses OTDR1 port, and 1625nm or 850/1300nm uses OTDR2 port.
- ⑥ For more adapters, please contact us.

**CAUTION:**



VIEWING THE LASER OUTPUT WITH CERTAIN OPTICAL INSTRUMENTS (FOR EXAMPLE: EYE LOUPES, MAGNIFIERS AND MICROSCOPES) WITHIN A DISTANCE OF 100 MM MAY POSE AN EYE HAZARD.



Unit:mm  
 Except where noted, tolerance default as:  $\pm 3\%$   
 (if size < 10mm, tolerance:  $\pm 0.3\text{mm}$ )

**Ordering information**

Part Number	Product Description
SPTK-3302F-MMSM	Handheld OTDR Four Wavelength MM 850/1300nm SM 1310/1550nm
SPTK-3302F-MM	Handheld OTDR Two Wavelength MM 850/1300nm

Note: If you need more customized services, please contact us.

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