

Optical Frequency Domain Reflectometer

OFDR-APx Series



High Performance OFDR

Ultra-high resolution and superior sensitivity to ensure unparalleled analysis flexibility across diverse networks, making it the ultimate tool for advanced optical diagnostics

Applications

- Photonic Integrated Circuits (PIC) development
- Optical cables installation and maintenance
- Fiber connectors verification and optimization
- +++

Market Segments

- Optical Communications
- Optical Sensing
- Quantum
- +++

Industries

- Telecom / Datacom
- Energy
- Aerospace & Defense
- Automotive
- Academic Research
- +++



販売元:
光貿易株式会社

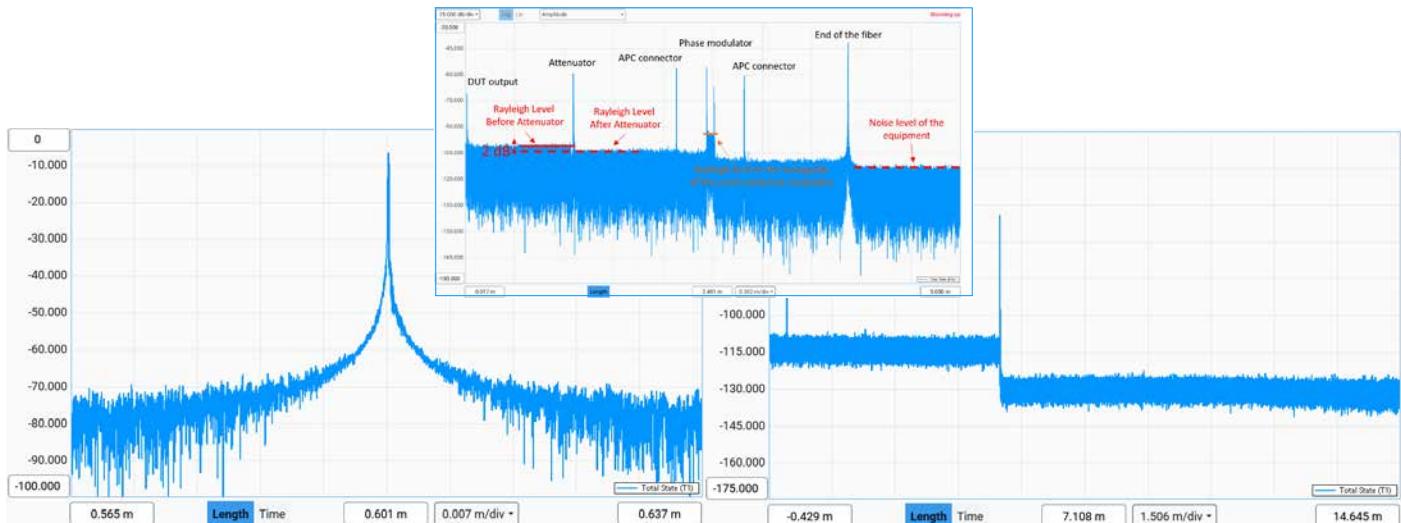
〒113-0034 東京都文京区湯島3-13-8

TEL:03-3832-3117 Email:contact@hikari-trading.com

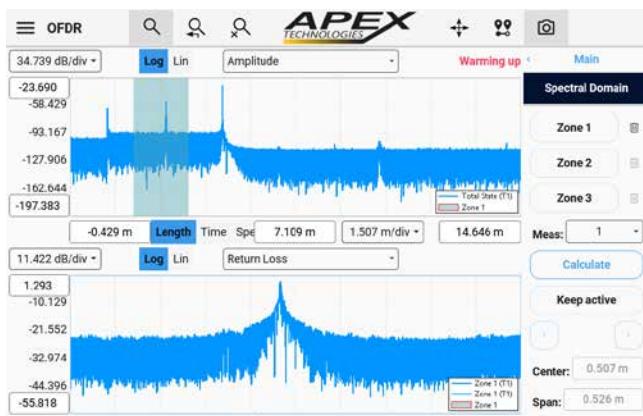
OSA/OCFA Advantages

Advantages	Benefits	Features
High Resolution	Locate small and adjacent defects and discontinuities, even in PICs	Narrow linewidth laser + Proprietary interferometric design
Large Measurement Range	Measure both very short waveguides and long fiber assemblies	Configured with 3 selectable length modes
High Dynamic Range	Detect weak reflections despite strong reflectors in the optical path	Largest dynamic range on the market + Highest sensitivity
Versatility	Measure components in both reflection and <i>transmission</i>	Proprietary interferometric design
Ease of use	Time-saving efficiency	User-friendly interface & Remote control capabilities

High Sensitivity & High Dynamic Range, for the Analysis of Complex Assemblies

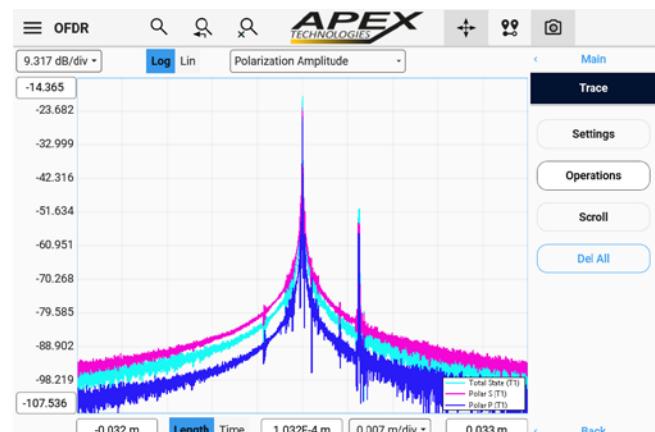


Spectral Response



Analyze the insertion losses and return losses in time domain and spectral domain

Polarization Diversity



Two (2) orthogonal polarization states are measured independantly and displayed, individually or combined

Performance Specifications

Parameters	Values	Units
Wavelength range		
OFDR-AP6-O	1260 to 1355	nm
OFDR-AP6-CL	1520 to 1630	nm
Length mode		
Two-point sampling resolution	8 16 32 42	µm
Length modes - Reflection	2 11 45 90 181 244	m
Length modes - Transmission ¹	4 22 90 180 362 488	m
Wavelength absolute accuracy	+/- 1.5	pm
Wavelength relative accuracy	< 0.5	pm
Maximum optical power	6	dBm
Measurement table	See next table	
Reflection mode		
Return loss dynamic range	122	dB
Insertion Loss dynamic range	18	dB
Sensitivity	-135	dB
Total range	-10 to -132	dB
Resolution	+/- 0.2	dB
Accuracy	+/- 0.4	dB
Length repeatability	+/- 12 ²	µm
Transmission mode		
Insertion loss dynamic range	115	dB
Sensitivity	-118	dB
Total range	0 to -115	dB
Resolution	+/- 0.2	dB
Accuracy	+/- 0.4	dB
Length repeatability	+/- 24 ²	µm

(1) Optional
(2) StDev @ 3σ

Measurement Times (s) vs Length & Resolution

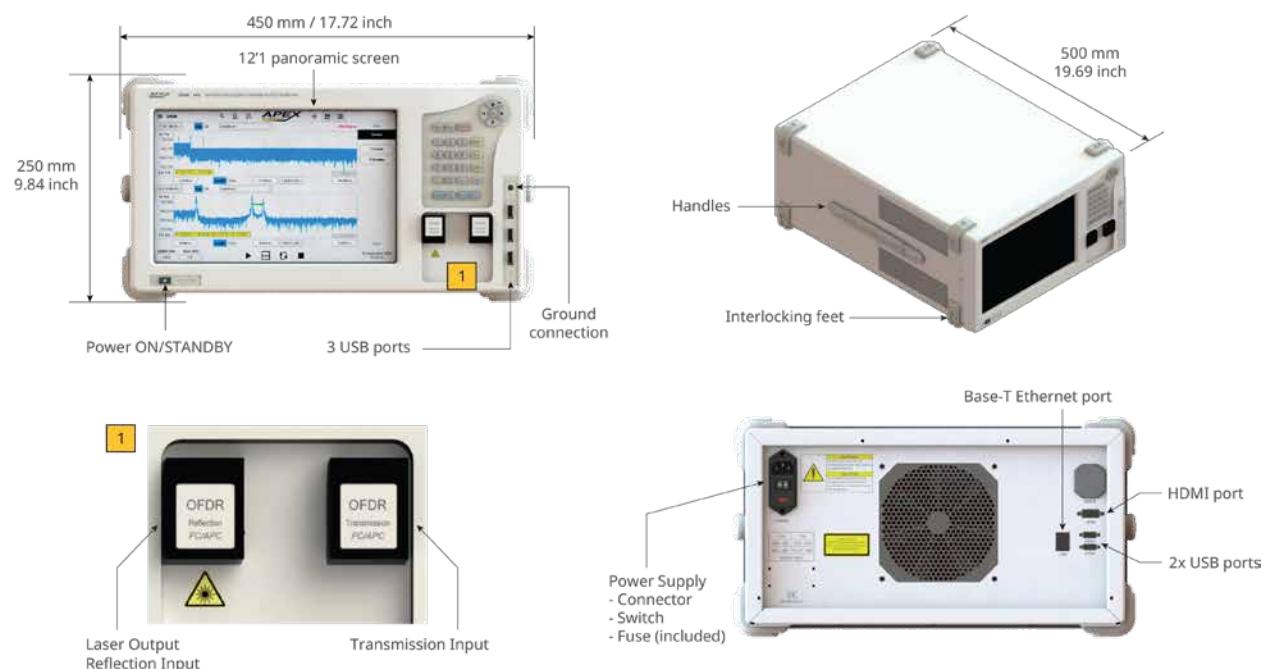
Length Mode	8 µm	16 µm	32 µm	42 µm
2 m	3	2	1.4	-
11 m	6.5	5	3	-
45 m	21	12	7	-
90 m	-	21	12.5	-
181 m	-	-	22	-
244 m	-	-	-	22

General Specifications

Parameters	Values
Remote Control	Ethernet
Connectors	FC/APC
Weight	27 kg (59 lbs)
Power	115/230 VAC, 50/60 Hz, 350 W
Operating T°	+5 to 35 °C
Storage T°	-10 – +50 °C
Humidity	20 – 80% RH non-condensing

Bring your Lab to the Top

APEX Technologies – Experts in Next Generation Test Equipment



APEX Technologies

9bis, rue ANGIBOUST
91460 MARCOUSSIS
FRANCE
+33 (0)1 69 63 26 30

www.apex-t.com



© 2025 APEX Technologies, All rights reserved.