

APL 2 PLUS Optical Time Domain Reflectometer



Main Frame OTDR Platform For Long Distance Fiber Testing



APL 2 Plus OTDR is a **multi touch screen** platform **OTDR**, feature rich with built in **optical light source**, **optical power meter & visual fault locator**, for testing of terrestrial, long distance or datacom optical fiber networks. APL 2 Plus is available in **Single mode**, **Multimode** and **PON** model variant with the option to customize the OTDR for availability of **up to 5 wavelengths** (by configuring up to 2 distinct OTDR modules in the same OTDR unit). APL 2 Plus offers **40 dB, 43 dB & 45 dB dynamic range** options for long distance terrestrial fiber network testing. APL2Plus user friendly interface guides directly on the screen with visual instruction on steps for testing.

Features:

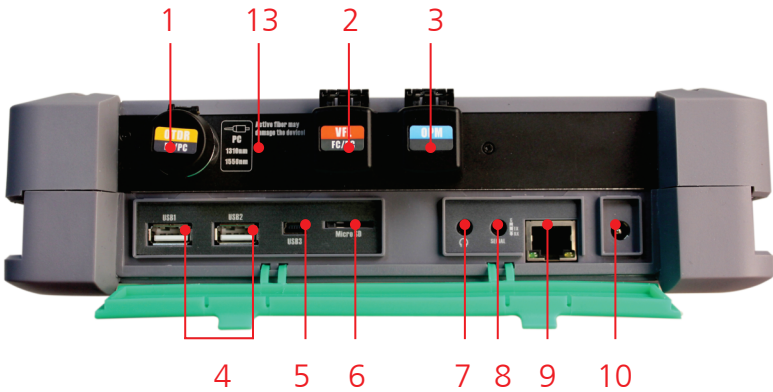
- Multi touch screen LCD - **7inch display size**
- Built-in **Optical light source** and real-time monitoring **Optical power meter**, Built-in **Visual fault locator**
- Built-in **temperature test, humidity test, gradienter, ping test**
- Map link with **pass/fail setting**
- OTDR **self- test function**
- Multi-wavelength testing and display
- Injection/receiving fiber settings
- Optional : GPS, Splitter

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APL-2 plus Optical Time Domain Reflectometer Functions



- 1

OTDR & OLS function
- 2

VFL
- 3

OPM
- 4

USB HOST Port
- 5

USB OTG Port
- 6

Micro SD Slot
- 7

Headset Socket
- 8

Serial Port
- 9

Ethernet Port
- 10

AC/DC Socket
- 11

Speaker
- 12

Back Stand
- 13

Configure for 2nd OTDR module

Configure as

Dual wavelength (nm) 1310/ 1550 or 850/1300	Triple wavelength (nm) 1310/ 1550/ 1625 or 1310/1490/1550	Four wavelength (nm) 850/ 1300/ 1310/ 1550	Five wavelength (nm) 850/ 1300/ 1310/ 1550/ 1625
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2 OTDR Modules can be combined in same OTDR for availability of upto 5 wavelengths.
Example: APL 2 Plus Mainframe OTDR with
Module 1 : Single Mode PON AOR502-P4 (1310/1550/1625nm)
Module 2 : Multimode AOR502-M1 (850/1300nm)

Accessories

OTDR	AC Cable	Calibration Certificate	Software	AC/DC Adapter	Carrying Bag

Adaptor Type

To be specified at time of ordering

Connector Options



FCU=FC/UPC
FCA=FC/APC

← Default option →



SCU=SC/UPC
SCA=SC/APC



LCU=LC/UPC



STU=ST/UPC

*** FC or SC are default connector adaptor options, attracting no additional cost
*** In case LC adaptor and/or APC type is required, will need to be ordered as a separate line item. Similarly for ST adaptor

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Specifications:

Module Options APL2-Plus	AOR502 A	AOR502 B	AOR502 C	AOR502 PB	AOR502 P1	AOR502 P3	AOR502 P4	AOR502 T1	AOR502A M1	AOR502M 1
Type of Fiber	Singlemode			PON OTDR (live fiber)				PON OTDR	SM+MM OTDR**	Multimode
Dynamic Range (dB)	40/38	43/41	45/43	42/40/37	40/38/36	43/41/40	45/43/43	38/36/36	40/38/26/26	26/26
Wavelength (nm)	1310/1550			1310/1550/1625 with filter for PON				1310/1490/ 1550	1310/1550/ 850/1300	850/1300
Dual/ Triple Wavelength Options	Dual			Triple				Triple	Quad	Dual
Display				7 inch color LCD, Multi touch screen						
Event Dead Zone (EDZ)	1.0 m	0.5 m	0.5 m	0.9 m	1.0 m	0.5 m	0.5 m	1.0 m	SM: 1.0 m MM: 1.5 m	1.5 m
Attenuation Dead Zone (ADZ)	5.0 m	2.5 m	2.5 m	5.0 m	5.0 m	2.5 m	2.5 m	5.0 m	SM: 5.0 m MM: 7.0 m	7.0 m
Distance Range	User settable 0.1 to 330km (for single mode)								User settable 0.1 to 330km (for single mode); 0.1 to 40km (for multi mode)	User settable 0.1 to 40km
Pulse Width	5ns - 20µs	3ns - 20µs		5ns- 20µs	5ns- 20µs	3ns - 20µs		5ns- 20µs	SM: 5ns~20µs MM: 5ns~1s/ 5ns~5s	5ns~1s / 5ns~5s
Distance Accuracy	±(0.80+0.005% * Testing Distance + Resolution)									
Loss Resolution	0.001									
Loss Threshold (dB)	0.01									
Min. Distance Resolution	0.1m									
Sampling Points	256000									
Measurement Time	Yes									
Refractive Index	Refractive index settable from 1.00000 to 2.00000 (Adjustable in steps of 0.00001)									
Averaging Time Update	≤180s									
Event Capture	M Type event analysis									
Software Output	.sor, pdf									
Visual Fault Locator (VFL)	10mW									
Optical Light Source Wavelength (nm)	Operating wavelengths will be same as OTDR module chosen, ex: standard OTDR will provide OLS wavelengths of 1310 &1550nm									
OLS, Power	≥ -6dBm									
Optical Power Meter (OPM)	Measurement Range : +26~ -50dBm									
OPM Wavelength (nm)	850/1300/1310/1490/1550/1625									
OPM Display Resolution	0.01dB									
Loss Test	Yes									
Other Standard Tests	Built in Temperature, Humidity, Gradienter, Ping Test									
Data Storage	6.3 GB Internal Flash Memory , >10000 results (SOR or PDF)									
Output Ports/ Interface	2 x USB, 1 x Audiophone jack, RJ 45 10/100M, 1 x Serial Port, 1 x Micro USB									
Size (H*W*D) (mm)	246.5mm*173.5mm*70mm									
Weight (kg)	Approx. 1.55									
Operating Temp/ RH	-20 to +60°C, < 90%									
Power Supply	7.4V/4.6AH Rechargeable lithium-ion batteries									
Certification	CE									
Electrical Safety Standards	EN 55032:2015 EN 55024:2010+A1:2015,EN 61000-4-2:2009, EN61000-4-3:2006+A2:2010									
Standard Accessories	Carrying Bag, AC/DC Adapter, AC Cable, Instruction CD, Calibration Certificate									
Optional Accessories	Default: FC ; Optional Connector: ST/SC/LC ; Optional type : APC									
Optional Add-on 1	Built in GPS with real time display on device and data storage on file									
Optional Add-on 2	Splitter setting in iOLA : two splitters, 1x2 to 1x64									

* To be specified at time of ordering ** SM+ MM = Single + Multi mode

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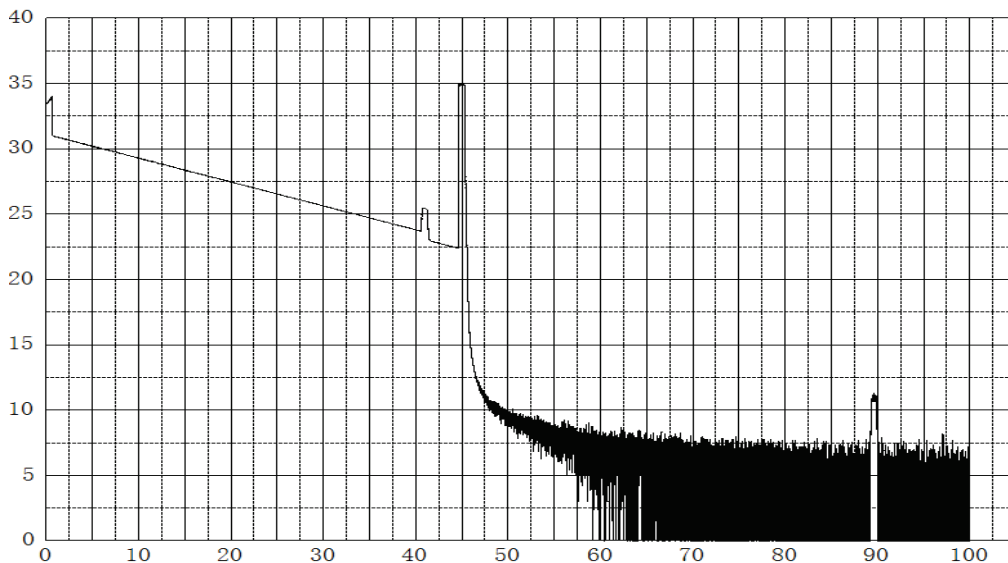
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Ordering Code : APL2-Plus + Configure as follows

W1-OTDR Module 1 Example: AOR502C	—	X1-OTDR Module 2 Example: M1	—	OTDR W2-Connector Adaptor Example: FCU***	—	OTDR X2-Connector Adaptor Example: FCU***
← Default →		← Optional →		← Default →		← Optional →
Example1: Singlemode OTDR (1310/1550nm, 40/38dB)				: APL-2 plus+ AOR502A-FCU		
Example2: Customized OTDR Singlemode(1310/1550nm)+Multimode (850/1300nm)				: APL-2 plus+ AOR502A-M1-FCU-FCU		

*** Refer Page 2 for connector / adaptor options

Software Report Example		
Project Name	Date	
Location	Operator	
Cable Type	Cable Id	Fiber Type
File Name:5[1550nm 5us].SOR		
Fiber Id	Measure Time:2019/2/13 16:58:48	



Measurement Condition						
Wavelength	1550 nm	Average	15 s			
Pulse Width	5000 ns	Backscatter	-52			
Dist.Range	100000 m	Reflectance	-65 dB			
Group Index	1.46832	Fiber End	3 dB			
Attenuation	0.05 dB					
Event List						
Event No.	Event Type	Distance(Km)	Loss(dB)	Return Loss(dB)	Slope(dB/Km)	Cumulative(dB)
1	Start	0.000	0.000	-38.050	-.--	0.000
2	Reflect	40.631	0.717	-40.438	0.182	8.112
3	End	44.617	---	-18.766	0.181	8.833



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