



TM290 Smart OTDR



Ordering Details

TM290D	1310/1550nm, 24/22dB	Touching screen
TM290D	1310/1550nm, 26/24dB	Touching screen,
TM290SF-15(with filter)	1550nm, 20dB	Touching screen, support active test
TM290SF-16(with filter)	1610nm, 20dB	Touching screen, support active test



Functions

1. OTDR: 0-60km
2. Optical Power Meter : -70~+10dbm or -50~+26dbm
3. Visual Fault Locator : $\geq 10\text{mw}$
4. Optical Light Source : 1310/1550nm , $\geq -5\text{dBm}$

Description

TM290 Smart handy OTDR is portable fiber fault locator, it is quickly to detect fault location and type of optical fiber using OTDR element and stronger software analysis tool.

Main Features

- Lightweight, portable, cost-effective
- One Key Operation, Legible Test Data
- Integrated with Visual Fault Locator system, it is easily to detect fault location of dead Zone
- Use the rubber Key, good dustproof, waterproof, quakeproof ability, suitable for field maintenance work
- Use big capacity battery, long working time, suitable for long time field working
- Suitable for engineer construction and maintenance fault location of FTTx and access network

Specifications

1. OTDR

Type	TM290D	TM290D	TM290SF-15	TM290SF-16
Wavelength	1310/1550nm	1310/1550nm	1550nm	1610nm
Dynamic Range	24/22dB	26/24dB	20dB	20dB
Active Test	no	no	yes	yes
Measure distances	0-60km			
Fiber type	SM			
Type of Fiber	9/125um Single-mode optical fiber			
Type of Connectors	FC/PC/; SC/PC			
Peak Value of laser	$\geq 30\text{mW}$			
UOM of Measurement	Meter,Feet,Mile			



Dead Zone of Reflection Event	2m
Dead Zone of attenuation Event	12m
Accuracy Distance (Reflection Event)	About +_ (1m+2 *10(-4)* distance)
Number of test records saved	100
Power Supply	8.4V Li-ion Battery 4400mAH
Battery working time	>=5,000 times of measurements
Temperature	Operate :-5~50 ,Store:-10~60
Humidity	0~85%(Non-condensing)
Weight(g)	300

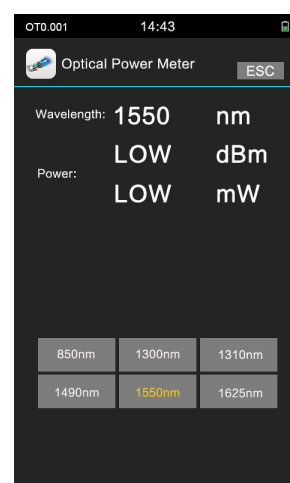
2. Visual Fault Locator

Wavelength	650nm
VFL Output Power	>=10mW
Mode	0Hz, 1Hz, 2Hz
Fiber type	SM/MM



3. Optical Power Meter

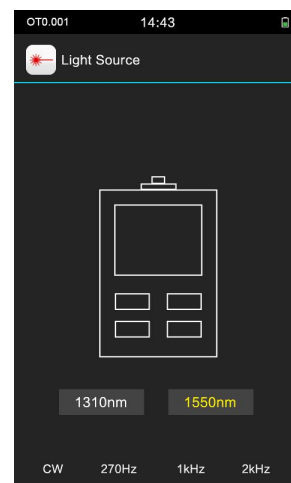
Measurement range dBm	-70~+10 dBm	-50~+26 dBm
Wavelength range (nm)	800~1650	
Calibrated wavelength	850nm、1300nm、1310nm、1490nm、1550nm、1625nm (other wavelength will be on request)	
Detector	InGaAs	
Accuracy	<±3% (-10dBm、22℃)	
Resolution	Linearity: 0.1%, Non-linearity: 0.01dBm	
connector	Movable FC/PC SC/PC, (ST as Optional)	





4.Optical Light Source

Emitter	FP-LD
wavelength (nm)	1310/1550nm
Connector	FC/PC (SC/ST as optional)
Output power	≥-5dBm
Output stability(dBm)	±0.04@20℃@15min
Modulation	CW/270Hz/1KHz/2KHz
Fiber type	SM



Detailed Pictures





Product List



NO	Name	Qty
Standard accessories		
1	OTDR with FC/UPC connector	1
2	AC/DC Charger	1
3	CD (software and user manual)	1
4	User manual	1
5	Test Report	1
6	Softcase	1
7	SC Connector for OTDR Port	1
8	SC Connector for OPM port	1
9	Operation tips card	2
Optional Accessories		
1	ST connector for OTDR Port	1
2	ST Connector for OPM port	1



Model	TM290D	TM290D	TM290SF-15	TM290SF-16
Wavelength	1310/1550nm	1310/1550nm	1550nm	1610nm
Dynamic	24/22dB	26/24dB	20dB	20dB
Test Length	60km	60km	60km	60km
Active Test	×	×	✓	✓
OLS	✓	✓	✓	✓
OPM	✓	✓	✓	✓
VFL	✓	✓	✓	✓
Touch Screen	✓	✓	✓	✓