

# GW600

## Optical Time-Domain Reflectometer

ALL-IN-ONE OTDR Integrated with OPM, LS, VFL and Event Map functions

*Supporting long-distance line and LAN / WAN access network test*

### General Descriptions

GW600 series Optical Time Domain Reflectometer (OTDR) is ALL-IN-ONE test equipment used to evaluate the loss of signal inside an optical fiber by transmitting laser pulses inside the fiber and measures the scattered light signal. GW600 OTDR basically determines the characteristics of an optical fiber cable through which optical signal propagates. It is also used to evaluate parameters such as splice losses, reflectance angle of a light signal, fiber attenuation etc. When a signal is transmitted through an optical fiber cable then during transmission some part of the signal gets reflected. This reflection results in signal attenuation that mainly occurs due to defects in the fiber cable. It is used as testing equipment in optical fiber communication system in order to determine the signal loss level inside a fiber cable.

GW600 OTDR is integrated with OPM, LS, VFL and Event map functions ready, and Fiber Inspection as optional.

### Main Characteristics

- ❖ Compact, lightweight, powerful
- ❖ Dynamic range :up to 45dB in single mode and 26dB in multimode
- ❖ Testing distance up to 190 km@1550nm
- ❖ 5.6 inch Touchscreen,TFT
- ❖ Dual battery, longer standby time and fast charging
- ❖ Graphics data reports can be saved in SD card, transferred to a computer and ready for printing.
- ❖ Minimum event dead zone 0.8m
- ❖ Minimum attenuation dead zone 4m
- ❖ Maximum sampling resolution: 5cm
- ❖ one button test 1310 1550nm dual wavelength
- ❖ Various OTDR modules available for SM, MM, PON network,access network test
- ❖ **PASS/FAIL FUNCTIONS**
- ❖ **OTDR integrated with OPM, LS, VFL and Event map functions ready, Fiber Inspection as optional**
- ❖ Support multiple result analysis functions: support segment loss back calculation, event point loss back calculation, multi curve comparison, 4-point loss calculation, 2-point loss calculation, segment function calculation, interface screenshot (any interface can be screenshot), etc.





**OTDR**



**Optic Power Meter**



**Laser Source**



**Event Map**



**VFL**

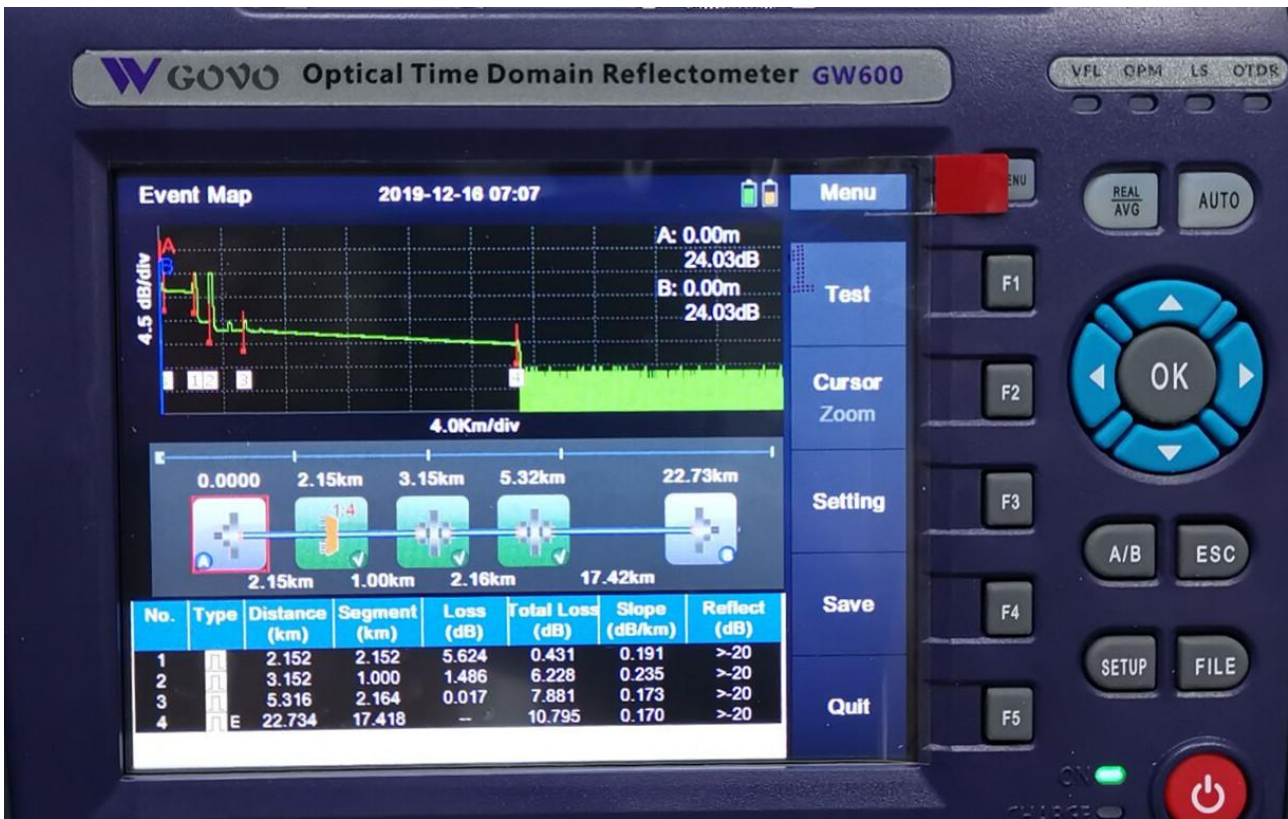
## Specifications

Technical Specifications:		
Display	5.6 inch Touchscreen,TFT	
Interfaces	USB (Type A)MINI USB,SD card	
Batteries	Single battery capacity: 7.4V/2500mAh; x2 PCS	
Power supply	AC/DC adapter; 100~240v, 50/60Hz	
Wavelengths (max. 4 wavelengths)	Single mode	Multimode
	1310nm 1490nm 1550nm 1625nm 1650nm	850nm 1300nm
Dynamic Range(dB)	26~45dB	20/26dB
Event Dead Zone	0.8m	1.25m
Attenuation Dead Zone	4m	5m
Minimum sampling resolution	0.05m	
Maximum sampling point	256,000	
linearity	≤0.05dB/dB	
Loss resolution	0.001dB	
Distance resolution	0.01m	
Distance accuracy	±(1m+Range×3×10 <sup>-5</sup> +Sampling resolution) (Regardless of the refractive index)	
Memory	>100000	
Operating temperature	-10℃~+50℃	
Storage temperature	-20℃~+70℃	
Relative Humidity	≤95% (No condensation)	
Size (Hx Wx D)	215mm×155mm×68mm (8.46 in x 6.10 in x 2.68 in)	
Weight	1.1kg (including battery)	
<b>VFL module</b>	Laser: 650nm±10nm ; default :10mW Laser safety: Class III B	
<b>OPM module</b>	Optic power meter -70~+10dBm (default); Optic power meter -50~+26dBm (optional)	
<b>Laser Source module</b>	Output:-5dBm±2dB, Frequency: CW/270Hz/1KHz/2KHz	
<b>Event Map module</b>	Ready built-in the OTDR	
<b>Fiber End Face Detector module</b>	Optional	
<b>WIFI/Bluetooth</b>	Optional	

By using **Event Map module**, the OTDR results will be displayed by diagram instead of line graph analysis, helping technicians to find all the events( including the distance and loss of the connector, splicing point, macrobend, splitter, the incident fiber cable and the fiber being tested) in the optical fiber link. It intelligentizes the testing and makes it easier, quicker, more efficient and thus can improve the work efficiency.

### Features

- ✧ With link awareness technology, the complex OTDR information is interpreted into simple and accurate analysis results
- ✧ Support one-button operation, automatic analysis and clear link map display
- ✧ Multiple wavelengths can be acquired multiple times
- ✧ Automatically identify each event on the fiber, including fusing points, macro bends, connectors, optical splitters, etc.
- ✧ Apply to OTDR GW600



EVENT MAP VIEW+ OTDR TRACE VIEW



PASS/FAIL FUNCTIONS (PASS)



(FAIL)



## Standard Package

### GW600 OTDR basic kit includes:

main body with built-in battery, AC/DC adapter, Power cord, Mini USB cable, Touch pen, SC Adapter, Soft Carrying bag, Shoulder belt, Wrist strap, User manual, Calibration Certificate

## Ordering Information

Wavelength	Model	Dynamic range	Optical port	Options
1310/1550nm	GW600-S2-28-FU	28/26dB;	FU: FC/UPC FA: FC/APC SU: SC/UPC SA: SC/APC	WIFI Fiber Inspection Loss testing
	GW600-S2-32-FU	32/30dB		
	GW600-S2-35-FU	35/33dB		
	GW600-S2-37-FU	37/35dB		
	GW600-S2-40-FU	40/38dB		
	GW600-S2-42-FU	42/40dB		
	GW600-S2-45-FC	45/42dB		
1625nm	GW600-S1625-26-FU	26dB		
	GW600-S1625-32-FU	32dB		
1650nm	GW600-S1650-26-FU	26dB		
	GW600-S1650-32-FU	32dB		
1310/1550nm,1490nm	GW600-S3A-35-SA	35/33/32dB		
1310/1550nm,1625nm	GW600-S3B-35-SA	35/33/32dB		
1310/1550nm,1650nm	GW600-S3C-35-SA	35/33/32dB		
1310/1490/1550/1625nm	GW600-S3D-35-SA	35/33/32/32dB		
850/1300nm	GW600-M2-20	20/26dB		
850/1300/1310/1550nm	GW600-SM4-28	20/26/28/26/dB		
	GW600-SM4-35	20/26/35/32/dB		

## Detailed View





