

SKYSHL

OTDR--SS313T Series

Optical Time Domain Reflectometer



Shenzhen SKYSHL Technology Co.,LTD.

www.skyshl.net

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SS313T
 850/1300/1310/1550/1625/1650/1490nm
 26/30/32/35/38/40/42dB OTDR
 Optical Time Domain Reflectometer



An Optical Time Domain Reflectometer (OTDR) is an important instrument used by organizations to certify the performance of new fiber optics links and detect problems with existing fiber links.

With the rapid advancements in fiber optic technology, OTDR testing methods have become indispensable to building, certifying, maintaining and troubleshooting fiber optic systems.

SKYSHL provides a new Optical Time Domain Reflectometer(OTDR)--SS313T series. They are used to measure the fiber length and overall optical attenuation in a circuit. The analyzed data provides insight into the integrity of the fiber and any passive optical components (such as connectors, splices, splitters, and multiplexers) transmitted along the cable path.

Features

- ✧ 1625nm online detection module with filter is available as a option for a online FTTx/PON detection.
- ✧ Multi-measuring mode, simple to use, finish measurement by just one button.
- ✧ Realtime measuring function, convenient to monitor the splicing process.
- ✧ Internal large power visual laser source for accurate positioning the closer fault point.
- ✧ Internal -5dBm stable laser source.
- ✧ Integrated design, smart and rugged; Small and light, easy to carry; Long working hours for outdoor operation
- ✧ Warning function could prevent module of OTDR damaged by optical signal.
- ✧ Integrated with 2 main USB and one sub USB port, for controlling by PC or connect external instrument.
- ✧ Support Chinese+English+German+Spanish+French+Portuguese input, friendly interface.
- ✧ Integrated with 8G internal memory. Storage more than 80000 groups curve.
- ✧ Provide data simulation software to process, generate and print report.

- ✧ IOLM Function/Event Map Function
- ✧ Visual Fault Locator+Optical Power meter+ Optical Light Source+ X400 Fiber Microscope(Optional) function
- ✧ Mutiwavelengths:1310/1550nm;850/1300nm;1310/1550/850/1300nm;1310/1550/1625nm;1310/1490/1550nm;1310/1490/1625nm,1650nm etc.

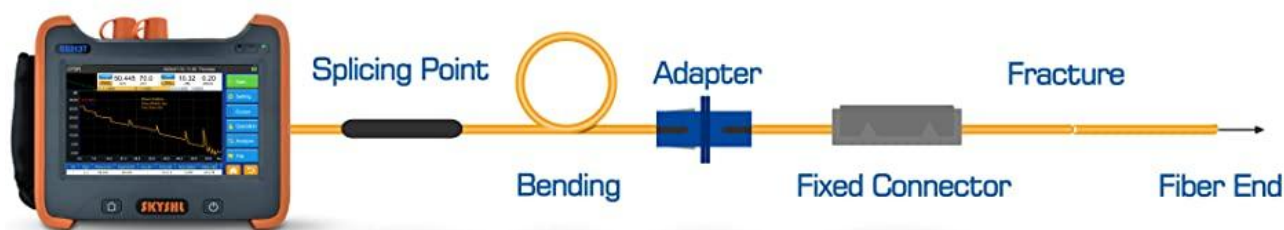
OTDR OPM OLS and VFL

SS313T integrates all basic optical fiber test tools and it more convenient to carry and test



OTDR Test Event Type

Perfectly show various events through the test curve



SS313T OTDR



Intelligence OTDR

SS313T has a variety of test modes and can become a test expert with almost no learning



Event Map

Maximization makes testing simple and perfectly locates and identifies network components and faults



Rechargeable Lithium Battery

SS313T provides 8.4V 6600MAH rechargeable lithium battery, which can meet the requirement of outdoor work.

Continuous Work

15hours

6600mah



Technical Specifications

Item	Description
Pulse Width	3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 20μs
Testing Distance	500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km
Measurement Time	Use-defined (smart link) ; with real-time measurement function
Linearity	≤0.05dB/dB
Loss Threshold	0.01dB
Loss Resolution	0.001dB
Distance Resolution	0.01m
Sampling Resolution	minimum 0.25m
Sampling Point	Maximum 128,000 points
Distance Accuracy	±(1m+measuring distance×3×10 ⁻⁵ +sampling resolution)
Internal visual source	10mw, CW/2Hz
Stable laser source	>-5dBm
DataStorage	80000 groups of curve

Interface	3 USB port
Display	7 inch capacitive touching screen
Battery	7.4V/6.6Ah lithium battery, continuous 8-10 hours
Optical Power Meter	850/1300/1310/1490/1550/1625nm; -70~+10db or -50~+26db
Optical Light Source	850/1300/1310/1490/1550/1625nm; CW, 270Hz, 1kHz and 2kHz
VFL	650nm±10nm;10Mw; CW, 1Hz and 2Hz
Working Temp	-10℃~+50℃
Storage Temp	-20℃~+75℃
Relative Humidity	≤90%, non-den
Dimension	230×185×70mm/1.5kg
Accessories	Main unit, 8.4V power adapter, Lithium battery, SC+ST+FC adapter, USB cord, User guide, CD
Option	Bare fiber adapter

Applications

- ✧ Measure the loss of splicing points, optical connectors and adapters.
- ✧ Measure the loss of single fiber or cable.
- ✧ Measure the length of cable ,set different refractive index for various fibers.
- ✧ Locate the position of broken point, Optical connector and adapter.
- ✧ Measure the discrete reflection ratio between SR points.
- ✧ Measure return loss for whole fiber circuit including connecting points and s points.

Technical specifications for each standard model of SS313T OTDR

Model	Operating wavelength	Laser wave length	Dynamic range (dB)	Event dead zone(m)	ATT dead zone (m)
SS313T-1A	1625	Single-wavelength	33	1m	5m
SS313T-1B	1625		35	1m	5m
SS313T-1C	1650		26	1m	5m
SS313T-1D	1650		32	1m	5m
SS313T-1E	1490		35	1m	5m
SS313T-2A	1310/1550	Dual-wavelength	32/30	0.8m	4m
SS313T-2B	1310/1550		35/33	0.8m	4m
SS313T-2C	1310/1550		37/35	1m	4m

SS313T-2D	1310/1550		40/38	1m	4m
SS313T-2E	1310/1550		42/40	1m	4m
SS313T-2MM	850/1300		20/26	1m	5m
SS313T-3A	1310/1550/1625	Three-wavelength	35/33/33	1m	5m
SS313T-3B	1310/1550/1625		38/35/36	1m	5m
SS313T-3C	1310/1550/1625		43/41/41	1m	5m
SS313T-3D	1310/1550/1650		35/33/32	1m	5m
SS313T-3E	1310/1490/1550		38/35/36	1m	4m
SS313T-4A	1310/1550/850/1300	Four-wavelength	32/30/20/26	1m	5m
SS313T-4B	1310/1550/850/1300		35/33/20/26	1m	5m
SS313T-4C	1310/1550/850/1300		42/40/20/26	1m	5m

Package Include







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