

Being used widely Customization/custom-make

Meet demands of easy operation with multi-fuction for the users; effectively assisting line maintenance workers (You) in preventing, diagnosing, and repairing the problems of fiber optic transmission, and enhance security and connectivity of the network.



- ◎ Splicing loss detection
- ◎ Fiber attenuation measurement
- ◎ Fiber acceptance test
- ◎ Fiber break point locating
- ◎ Fiber length measurement
- ◎ On-Line monitoring
- ◎ Fiber identification

It is ider which No experience required for optical network testing

SAT-18B OTDR are compact, cost-effective, portable and high dynamic range Mini Optical Time Domain Reflectometer. By providing all the measurement functions and performance required for optical fiber construction and maintenance. supply two-wavelength 1310 and 1550nm in one module .Used to testing all fiber applications from Telenet and WDM to MAN, FTTH and LAN network

High precision event

- ◎ 1.6M event dead zone
- ◎ Dynamic range is reach to 35dB
- ◎ Attenuation dead zone is start from 4m
- ◎ $\pm 0.03\text{dB/dB}$ is industry-leading precision

Two operating modes

- 1) Auto Mode:
Lets you select acquisition parameters automatically. Perfect for basic, repetitive OTDR applications or for occasional users.
- 2) Manual Mode:
It can be chaged the parameters of optical index of refraction and fiber excess coefficient setting to measure the maximum distance.

Speciality Report

Make use of configurable report and batch printing, fast and effectively create full speciality report.

- 1) Create optical fiber cable report and get particular report:
 - a. Fiber event- report Display full event-data in compact foramt
 - b. Fiber zone-report Scrutiny all fiber-in-the-zone
 - c. Fault report Base on fault feedback of user-threshold
- 2) Print the OTDR cruve of display and choose stat.

SAT-18B

OTDR

AITELONG™
Keeping your system safe and running!



- ⊙ RImage zoom, complete curve display.
- ⊙ Start time is 1 second.
- ⊙ High level antireflection TFT screen
- ⊙ Extreme durability keys and knob.
- ⊙ Exceed 8 hours battery working time.
- ⊙ Sampling, analysis and report generating rapidly.

Specifications^a

Model	SAT-18B
Wavelength	1310±20/1550±20nm
Maximum dynamic range	35/34dB
Event dead zone ^b	1.6/1.6m
Attenuation dead zone ^b	4.5/5m
Distance	0.8km,1.6km,3.2km,6.4km,12.8km,25.6km,51.2km,102.4km,204.8km,409.6km
Pulse width	8ns,16ns,40ns,80ns,160ns,320 ns,640 ns,1280ns,2560ns,5120ns,10240ns,20480ns
linearity	±0.03 dB/dB
Loss threshold	0.01 dB
Loss resolution	0.001 dB
Sampling resolution	0.025 to 0.03m
Sampling points	Up to 128000
Distance uncertainty ^d	±(0.75+0.0025%×distance)m
Measure time	User -defined(180min maximum)
Typical real-time refresh	Guaranteed:≤0.4s Typical:≤0.3s
Display	Touchscreen, color,640×480TFT203mm(8in)
Storage	Compact Flash cards
Batteries ^e	Rechargeable Li-Ion 6600mAh 8h of operation
Power supply	AC/DCadapter, input: 100-240VAC、50-60Hz、>1A; output:19VDC, >3A
Operating temperature	-5℃ to 50℃ (23° F to 122° F)
Storage temperature ^f	-40℃ to 70℃ (-40° F to 158° F)
Relative humidity	0% to 95% (non-condensing)
Size (H×W×D)	300mm×205mm×95mm
Weight	3kg

Notes

A.All specification valid at 23℃±2℃(73.4° F±3.6° F)with an FC/PC connector unless otherwise specified.

b.Typical dead zone of singlemode for reflectance below -45dB, using a 8ns pulse.

c.Typical dynamic range with a three-minute averaging at SNR=1.

d.Does not include uncertainty due to fiber index.

e.Typical output power value at 1550nm.

f.Standard recharge time is 3h. Recharge temperature:0℃ to 35℃(32° F to 95° F)

g.Not including internal batteries. Battery maximum storage temperature 60℃(140° F).

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