ST3300 OTDR
OPTICAL TIME DOMAIN REFLECTOMETER

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PRECISION INSTRUMENTS

BRIEF INTRODUCTION

As fiber optics plays more and more important role in modern telecommunication and CATV networks, the requirements to the construction, test and maintenance of fiber optics links also become more prominent.

ST3300 is a unique product mainly designed for construction and maintenance of telecommunication and CATV networks. ST3300 can be widely used in engineering construction, maintenance test and emergency repair of all fiber optics related systems.

Comparing with a regular OTDR, ST3300 is more compact in size and easier for field use.

ST3300 has handheld design, compact and lightweight, easy to carry. Event information through TFT color display and data storage capabilities. Through the USB interface, the test data can be uploaded to the PC, to facilitate the post-processing, archiving and printing.

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MAIN FUNCTIONS

- Hand-held design, compact and lightweight
- Anti-seismic, shockproof and appropriate for field operation
- Unique hotkey design
- Starting in 3 seconds measuring immediately
- Narrow event blind zone, simple test of fiber patchcord
- Automatic and manual test function
- High Capacity SD card
- Low-power design, optical lithium battery or AA-size alkaline batteries
- VFL (Visual Fault Location) function
- Multiple light outputs, FC as standard ST/SC optional and exchangeable
- OTDR Viewer software for data analysis
- Light alarm function, preventing the device from being damaged by the signal light

SPECIFICATIONS

Sub-Model	**CuteOTDR-3300B**	**CuteOTDR-3300C**
Wavelength	1310/1550	
Sensing Fiber	Single mode fibers	
Dynamic Range (dB)①	28/26	32/30
Pulse Duration(ns)	10/20/50/100/200/500/1us/2.5us	10/20/50/100/200/500 /1us/2us/5us/10us/20us
Even Dead Zone(m)②	< 1.8m	
Attenuation Dead Zone②	<10m	
Attenuation Detect Accuracy(dB/dB)	±0.05	
Loss Resolution(dB)	0.01	
Sampling Resolution(m)	0.16-5 (0.16 0.32 0.64 1.28 2.56 5.08)	
Distance Measure Accuracy(m)③	±(1m+5×0.005%×distance+sampling space)	
Max Measuring Distance (km)	1-120Km	1-160Km
Data Storage	> 10000 records	
Storage Format	.sor bellcore file	
Averaging Time	5s,15s,30s,1min,2min,3min	

CONTACT US

1 Warner Drive
Springwood Industrial Estate
Braintree, Essex
CM7 2YW

Tel: 01376 335271
E-mail: sales@tinsley.co.uk

www.tinsley.co.uk

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General Specification	
Dimensions(H×W×T)	210*112*67mm
Weight	1kg
Temperature	Operating Temperature 0°C -50°C Storage Temperature -20°C -60°C
Relative Humidity	0%-95%(non-condensing)
Battery life	> 10 hours
Interface Type	
Connector	FC(ST/SC Interchangeable)/PC
Connectivity	USB/SD card
Matching Function Modules	
Visible Fault Locator	Wavelength: 650nm; Farthest distance test:5Km
Stable light Source Module④	Wavelength(±20):The work of OTDR with wavelength

Notes:

① The dynamic range is SNR =1 the maximum pulse width within averaging time of 3 minutes
② Conditions for dead zone measurement: reflection strength beleow-45dB, Event Dead Zone with 10ns pulses width measurement, Attention Dead Zone 50ns pulse width measurement.
③ Do not include due to refraction caused by the uncertainty.
④ Stable source and CuteOTDR sharing the same light port and Cute OTDR work wavelength consistent.

APPLICATIONS

Telecommunication construction and maintenance

CATV construction and maintenance

Cabling system

Optical components production and research

Other fiber-optics projects

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