

TEKCN TC-350 OTDR



Overview:

TEKCN TC-350 OTDR (Optical Time Domain Reflectometer) adopts a 4.3-inch color capacitive touch screen, which is easy to operate. It has simple parameter settings and intelligent measurement make the operation simpler and more efficient.

The model is compact, lightweight, and easy to carry. The large capacity battery ensures 12-hour ultra long measurement time, providing guarantee for field testing operations.

TEKCN TC-350 OTDR is mainly used to measure the length, splicing loss, optical connector loss, optical line breakpoint, average loss, return loss, connection quality, etc. of optical fiber cables. It has automatic optical protection function to prevent damage to optical modules.

It can be widely used in the fields of engineering construction, fault repair, fiber optic line maintenance, engineering acceptance, research and production of fiber optic cables in fiber optic communication systems.

Functions:

- OTDR
- Power Meter
- VFL
- Light Source
- Event Map
- Network cable sequence testing
- Cable finding
- LED light

- SD card for storage
- USB port for data transfer and software upgrading
- Support SOR test report

Configuration:

- OTDR
- Connector cleaning pen*1
- Adapter to convert to FC, LC, SC *1
- Carry bag*1
- Charger*1

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Specification

Model	MINI OTDR
Wavelength	1310/1550±20nm
Dynamic range	27 dB
Testing method	Automatic, real-time, and expert
Event dead zone	2.5m
Atten. dead zone	8m
Testing Range	Allow to set the testing range from 100m/ 500m/ 1km/ 2km/ 5km/ 10km/ 20km/ 40km/ 60km/ 100km
Pulse width	5ns/10ns/20ns/50ns/100ns/200ns/500ns/1us/2us/5us/10us
Measurement accuracy	± (1m + sampling resolution +0.005% x test distance)
Sampling Points	Max.128 000
Sampling resolution	≤5cm
Loss resolution	0.001dB
Display resolution	≤1cm
Distance resolution	0.001m
Refractive index	1.0000 ~ 2.0000 in steps of 0.0001
Reflection accuracy	± 3dB
OTDR measurements:	
Test method	Auto or Manual,
Distance measurements method	Automatic or by cursor
Sampling resolution	≤5cm
Display resolution	≤1cm
Distance error (m):	±(1 + 3 x measurement distance ×10^-5 + cursor resolution), (excluding IOR error)
Attenuation measurem	ent:
Test method	Auto or Manual
Display Range	1.25dB to 40dB
Display resolution	± 0.1dB
Sampling resolution	± 0.1dB
Linearity	± 0.05dB/dB
Reflection and reflectio	n loss measurements:
Test method	Auto or Manual
Display resolution	± 0.1dB
Threshold level	-11dB to -99dB in 1dB steps
File layout	SOR, stored in Bellcore or .trc format
Laser safety level	Class 2(CFR Standard)

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Test method	Distance measurement method: Automatic or by cursor							
Display	4.3-inch color capacitive touch screen, resolution 480x272 dpi							
Distance display unit	km, m							
Even Map	Display the optical path characteristics with separate symbols and text annotations to represent welds, connectors, with information about location, attenuation, reflection, distance between events							
Environmental	Working temperature: -10°C~+50°C							
temperature/humidity	Storage temperature: -40°C~+70°C; Humidity: 0~95% non condensing							
Protection	Shockproof, IP5X, IPX2							
Size/Weight	175*105*45 (L*H*W) / 480g (including battery)							
Storage	\geq 1000 test result, Hard drive capacity (inside the machine) \geq 1Gb							
Power supply	100-240VAC, 50/60Hz, Rechargeable Battery.							
Battery	5200 mAh/3.7V, Minimum working hours 12h							
Battery display	The battery level is displayed on the instrument panel							
Measurement result information	Cable route name, start point, end point, fiber order.							
Threshold	The device capable of providing pass/fail assessments and serious error warnings for measurement results based on comparison with user-defined parameter threshold levels or according to ITU-G.671 standard.							
Language	English and Vietnamese							
Other function for testi	-							
	-	the connector	r connected to th	e meter is cle	an or dirty.			
a, The device is capable of detecting whether the connector connected to the meter is clean or dirty.b, The device is capable of detecting a signal on the optical line (helping the technician recognize that the								
optical line has a signal).								
c, The device can allow full screen display of measurement results.								
d, Startup time ≤10s, r	eady to test							
e, The meter has a built-	-	to detect the fi	rst event of the ca	able route, sa	ving the meterer			
from having to carry a c								
f, Provides parameter	, .	e and pulse	width when se	lecting meas	surement mode			
corresponding to event								
g, Automatic measurer	•	• •	•					
simulate events on the					•			
h, Expert measurement cable length, pulse widt			itial offset coll le	ength, final o	ffset coll length,			
I, Measurement results	· · ·		ftware for reading	a and printir	a mossuromont			
results on a computer is	•	a computer. So	itware for reading	ig and printi	ig measurement			
Power meter		Light source		Others				
Calibration		Light		C				
wavelength	1310/1550nm	Wavelength	1310/1550nm	VFL	≥10mW			
Testing Range	A:-70~+10dBm B:-50~+26dBm	Laser type	FP-LD	Cable test	Cable sequence testing and Cable finding			
Frequency recognition	270Hz/1kHz/2kHz	output power	-5dBm±2dB (Adjustable)	battery	5200nAh/3.7V			

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Uncertainty	±5%	Uncertainty	±5%	Charge	USB
Connector	FC/SC/ST	Connector	FC/SC/ST	Storage	≥1000

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