S2107 Optical Cable Identifier

120km Optical Cable Survey Scope

Key Features

- All kinds of break-point, APC or UPC optical cable end can be easily identified
- Integrating full-function OTDR
- One-key intelligent test and without tedious parameter settings
- Locate the target optical cable through audio or visual signals in complex environments
- Single-fiber test, no looping at the distal end
- Intelligent optical fiber link detection, graphical results show, clear and easy to understand
- Integrated light source, optical power meter and optical loss test functions
- Multi-functional test platform to meet diversified test requirements
- 5.6-inch color LCD touch screen, button/ touch dual operation

Introduction

Saluki S2107 Series Optical Cable Identifier is an intelligent instrument designed for the construction and maintenance of optical cable lines in optical communication system. According to optical elastic effect, the bending or sloshing signals of optical fibers are converted into visual and audio signals by coherent demodulation of optical fibers. It is a new non-destructive identification technology for optical fibers to accurately locate and identify the target optical cables laid in the environment of wells, tunnels, pipelines and overhead poles.

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In view of the complex wiring environment and the difficulty of locating faults during the construction and long-term use of optical cables, S2107 series optical cable identifier can provide fast, effective and accurate fault solutions. When the target optical cable is bent or shaken, the optical cable census instrument can quickly capture the vibration signal and display it through waveform and sound, so as to locate the target optical cable quickly. It provides the simplest method for Telecommunication engineers and technicians to track and identify the target optical fiber or cable clearly. Optical cable census instrument has the advantages of friendly interface, simple and practical, non-toxic and harmless, and does not damage optical cable. It is suitable for accurate identification of optical cable in the environment of manhole, tunnel, overhead, pipeline and so on. It is a new instrument tailored for optical cable construction, acceptance and operation and maintenance technicians.

Applications

- Single-core optical fibers are used to accurately identify distal optical cables in pipelines, tunnels, manholes and overhead environments.
- Construction of computer rooms, line transformation, cable splicing, standardized management, resource survey and on-duty maintenance of telecommunication operators.

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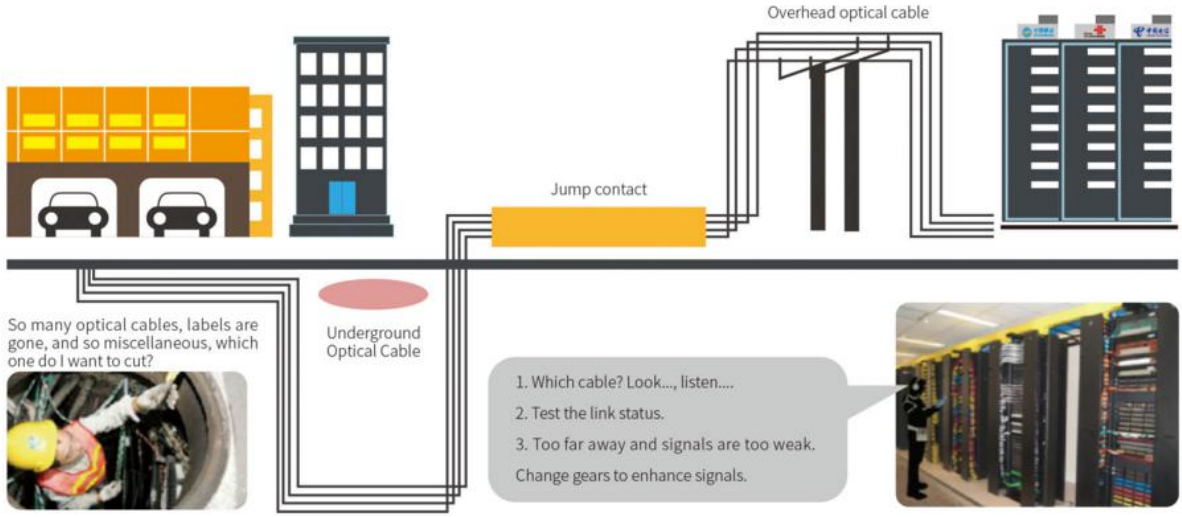
Operation Instructions

With this test instrument, the line maintenance personnel only need to connect the cable to the test end of the optical cable census instrument, and then bend or shake the optical cable at the far end. Then the test instrument can quickly and accurately find the target optical cable through audio and video signals. Its powerful application function can greatly reduce the emergency repair of optical cable maintenance time, reduce the cost of construction and management, greatly improve the work efficiency.



Technical Specifications

OCID						
Model	S2107-AS1	S2107-AS2	S2107-AS3	S2107-BS1	S2107-BS2	S2107-BS3
Measurement Method	Single fiber testing (No Loop)					
Wavelength	1550nm±20nm					
Test Distance	60km			120km		

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Unidirectional Optical Cable Loss		14dB			24dB		
Mode	Real-time waveform display	Process			Process		
	Real-time audio prompt	Process			Process		
Initial Blind Zone		No blind zone					
SNR		> 10dB					
Fiber Type		G.652					
Connector		APC (Interchangeable FC/SC/ST)					
OTDR							
Fiber Type		G.652					
Wavelength		1550nm±20nm					
Max. Dynamic Range ①		30dB	32dB	36dB	30dB	32dB	36dB
Event Blind Zone ②		1m					
Attenuation Blind Zone		6m					
Measuring Accuracy		±(0.75m + Sampling interval + 0.005% x test distance)					
Measurement Range		0.5/1/2/4/8/16/32/64/128/256km					
Pulse Widths		3/5/10/50/80/160/320/500/800/1000/3000/5000/8000/10000/20000ns					
Sampling Points		16k - 128k					
Sample Resolution		0.05m - 16m					
Loss Accuracy		±0.05dB/dB					
Reflection Accuracy		±3dB					
Connector		FC/UPC (Interchangeable SC/ST)					

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File Format	SOR (standard format), PDF (analysis software)
Loss Analysis	4-point method / 5-point method
Laser Safety Level	Class Π
Data Storage	Internal: 100M (≤3000 curves), External: 4GB
Refresh Rate	3Hz (typ.)
Data Interface	USB, Mini USB, 10M/100M Ethernet
OPM	
Wavelength Range	800nm - 1700nm
Connector	Universal FC/SC/ST
Measurement Range	-50dBm to +26dBm
Uncertainty	±5%
Display Unit	dB, dBm
Calibration Wavelength	850/980/1300/1310/1490/1550/1625/1650nm
LS	
Laser Source	FP-LD
Wavelength	Consistent with OTDR output wavelength
Output Power	≥ -5dBm
Stability	CW, ±0.5dB/15min (Test after 15 minutes of boot-up preheating)
Connector	FC/UPC (Interchangeable SC/ST)
VFL	
Wavelength	650nm ± 20nm
Output Power	≥ 2mW
Mode	CW/1Hz/2Hz
Connector	FC/UPC (Interchangeable SC/ST)
The Optical Loss Test index refers to the above LS and OPM index.	

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General Information

Display	5.6 inch color LCD touch screen, English Interface
Battery	7.4V / 5000mAh Lithium battery
Power Supply	AC /DC Adapter: input: 100V-240V, 50/60Hz, 0.6A output: 12V-19V, 1.5A
Environment	Operating Temperature: -10 to +50ºC / Storage: -40 to +70ºC, Relative humidity: 0 - 95% non condensation
Dimension / Weight	227mmx160mmx70mm / ≤1.5kg

NOTE:

① Test temperature is 25±2°C, the maximum pulse width, average time is more than 30s.

② Test conditions of Event Dead Zone are minimum range, minimum pulse width, reflection loss of optical fiber end surface (>45dB), typical value.

Standard Package

Num	Item	Qty
1	S2107 OCID Host	1 Set
2	AC/DC power adaptor	1 PC
3	U Disk (containing analysis software)	1 PC
4	Data line	1 PC
5	Touch pen	1 PC
6	APC-UPC jumper	1 PC
7	OCID/OTDR SC adapter	1 PC
8	OPM SC adapter	1 PC
9	User manual	1 PC
10	Calibration certificate	1 PC

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11	Clean cotton piece	10 PC
12	Leather knob	1 PC
13	Special backpack for instrument	1 PC

Attention: The interface type is standard FC/UPC, FC/APC optional if needed. Due to the need for improvement, the above contents are subject to change without notice.