

CRC-04 Optical Cable Routing Calibrator

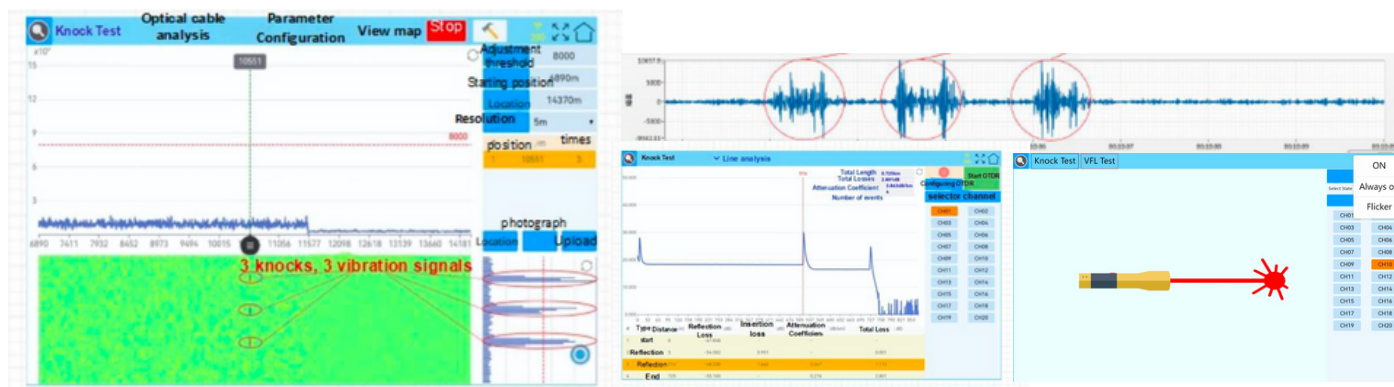
Product Overview

The CRC-04 is a high-precision Optical Cable Routing Calibrator designed for comprehensive cable management. It performs tasks such as routing statistics, fault troubleshooting, and cable division identification, while integrating functions like route positioning, detailed cable inspection, OTDR, and visual fault analysis. Ideal for communication maintenance, the CRC-04 ensures accurate cable distribution, precise fault detection, and rapid repairs, meeting the demanding requirements of modern network support.



Features

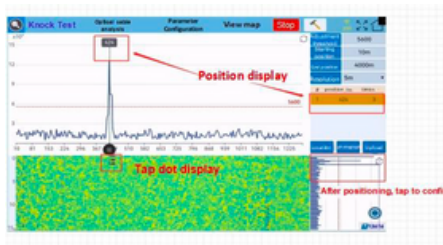
► Route mapping function, OTDR and visual fault location



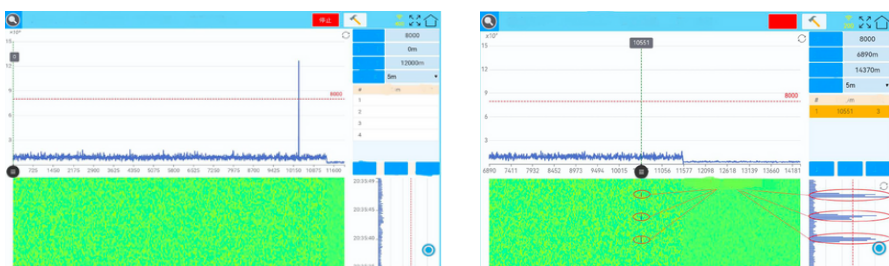
► 4 Routes of cable access at the same time, free switching, improve work efficiency



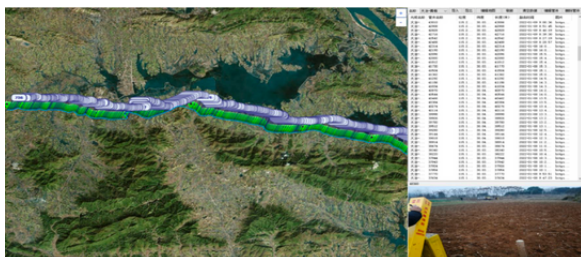
► **Locate the target cable & demarcate the location of tapping point**



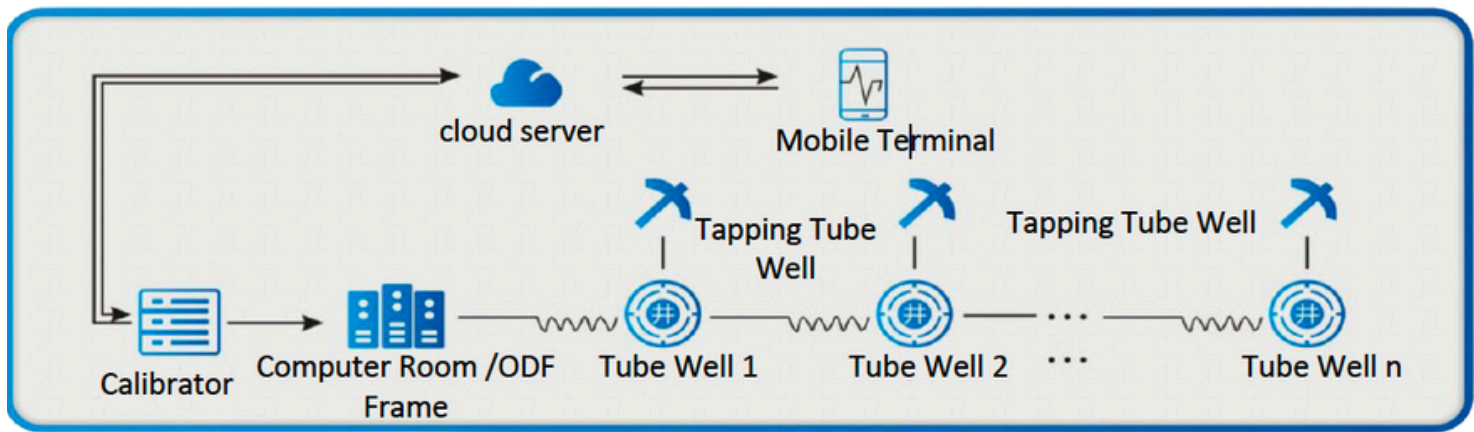
► **Accurate analysis of multiple optical cables on the same route**



► **Obtain longitude & latitude of the tap point in real-time & correlate to GIS map info**



Optical Routing Calibrator Working Principle



In this device, the optical fibre functions as a vibration sensor to detect vibrations at the far end, while simultaneously serving as a signal transmission medium, transmitting the reflected signals generated by the vibrations to the system host. After the host system analyses the signals, the results are processed through algorithmic calculations and then relayed back to the remote end via the Internet. Remote investigators can perform a simple tap and instantly view the results in real time, allowing for immediate determination of the cable route.

The optical cable routing intelligent calibrator series can locate buried and pipeline optical cables, and identify specific locations such as optical cable connector boxes, broken fibre points, and light attenuation points. Additionally, it provides crucial support for pipeline construction protection.

Specifications

Model	Parameter	Vibration Detection	Smart OTDR	Visual Fault Location
CRC-04	Channel (Automatic switching)	4 routes	4 routes	1 route
Performance Index	Wavelength	1550nm	1310nm/1550nm	650nm
	Detection Range	40km	1550nm≥100Km	5km
	Detection Mode	Vibrate and knock the cable across the ground	Loss, gain, reflection and other events	-
	Data Management	Route Calibration: Obtain Line measuring point length and corresponding GPS coordinates (mobile terminal)	Event Editing: Route Calibration: Obtain Line measuring point length and corresponding GPS	-

