

# CRC-04 Optical Cable Route Checker

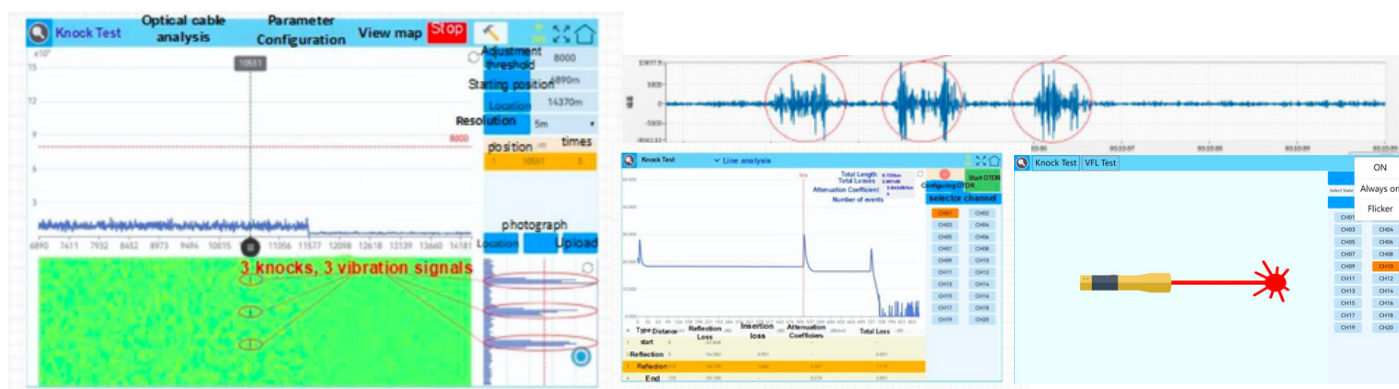
## Product Overview

The CRC-04 is a high-precision Optical Cable Route Checker 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 cable maintenance, the CRC-04 ensures accurate cable mapping, precise fault detection, and rapid repairs, meeting the demanding requirements of modern network support. With correct knowledge of your cable network, all planning for network extensions and customer onboarding (lead to cash) will progress with a right-first-time approach.



## Features

### ► Route mapping function, OTDR and visual fault location



### ► Test up to four cable routes at the same time. Switching between each will improve operational efficiency



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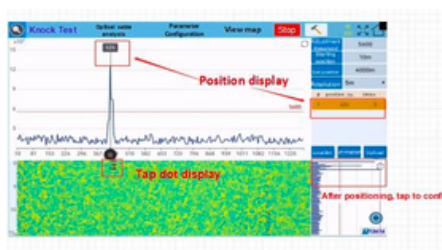


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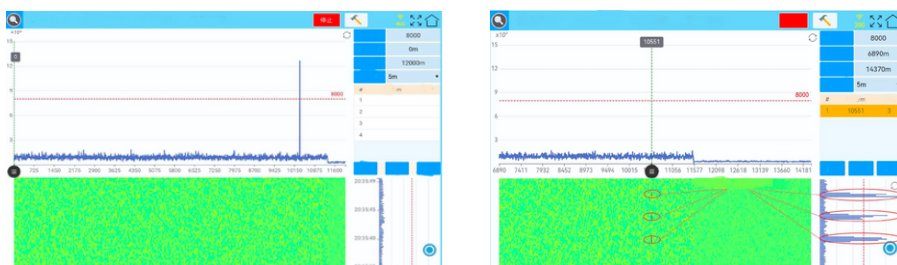


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- **Locate the target cable & demarcate the location of tapping point.**



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

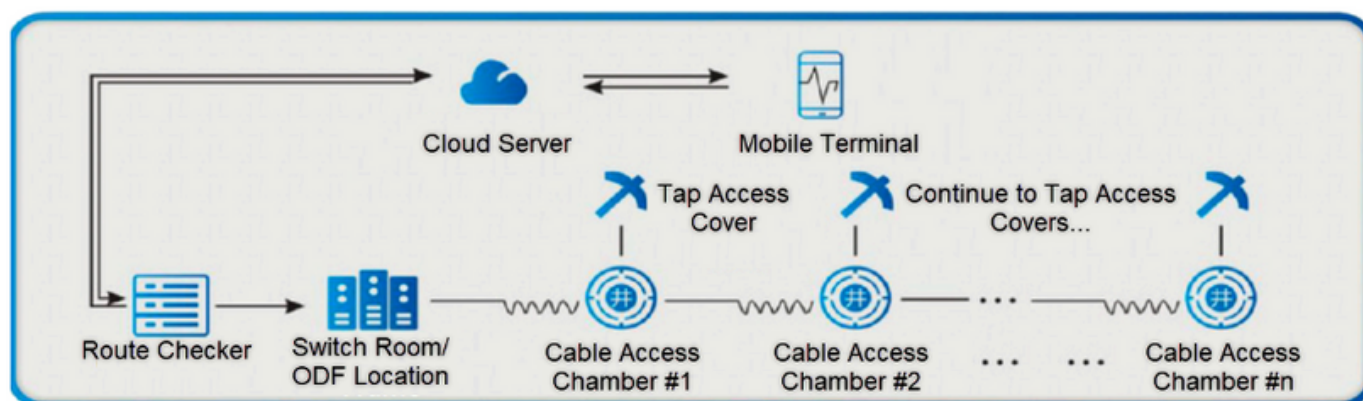


- **Obtain GPS coordinates of cable access points in real-time and correlate to GIS map info.**



- **Add additional data such as a photograph of the actual cable access cover in relation to surrounding geographic landmarks**

## Optical Routing Calibrator Working Principle



In this device, the optical fibre functions as a vibration sensor to detect vibrations along the connected cables, 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 operator, holding a tablet or smartphone in the field via the Internet. The operator can perform a simple tap and instantly view the results in real-time on his tablet or smartphone, giving them an immediate understanding of the cable route.

The optical cable route checker 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 | -                     |

