Optical Cable Identifier K-200

Finds the one cable you want inside a manhole or duct full of identical ones: tap the cable, and the K-200 turns the knock into a tone and a bar reading — nothing is cut, bent or frozen.

Ducts and manholes fill up with cables that all look the same, and records are not always right. The K-200 identifies the one target cable without cutting, bending or freezing the fiber: a 1550 nm signal goes in at one end, a tap on the cable answers back as sound and a screen reading, over 40 km or 100 km of route.



K-200 optical cable identifier front view with the bar reading on the 5.6-inch touch screen

Key Features

- Non-invasive identification: the photo-elastic effect turns a gentle tap on the target cable into audio and visual signals — the fiber is never cut, bent or frozen, and live traffic on it is untouched
- Two reaches: 40 km and 100 km versions, working over a single fiber at 1550 nm, with no initial blind zone
- Reads by ear and by eye: the sound tracks how hard the cable is knocked, while the screen shows a bar chart or ECG trace — usable in a noisy street cabinet or a quiet plant room
- Works with PC, APC or cut fiber ends, and in manholes, tunnels, conduits and aerial spans alike
- 5.6-inch touch screen plus buttons, ten hours or more on the built-in lithium battery, 1.5 kg complete

Configurations

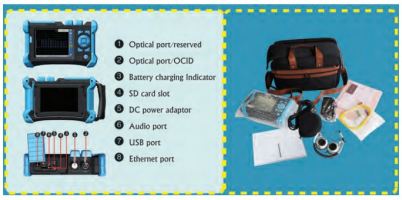
40 km version; 100 km version.

Specifications

Test method	Single fiber
Wavelength	1550 nm
Fiber type	Single-mode
Maximum test distance	40 km or 100 km (by version)
Unidirectional fiber loss	10 dB (40 km version); 30 dB (100 km version)
Initial blind zone	None
Fiber-end return loss requirement	≤40 dB (40 km version); ≤20 dB (100 km version)
SNR	≥25 dB
Optic connector	FC/APC
Display	5.6 in LCD touch screen
Input	Touch screen + buttons
Output	Visual: bar chart or ECG display; Audio: sound tracking the knock intensity
Battery	Lithium 7.4 V, 10.4 Ah — ≥10 h continuous work
Power consumption	<6 W
Power supply	DC 12 V / 3 A

Dimensions	65 × 150 × 235 mm
Weight	1.5 kg (including battery)
Working temperature	0 °C to +45 °C
Storage temperature	-20 °C to +55 °C

More Views



Ports at a glance — and what's in the bag

In Use

Connect the identifier at the accessible end (FC/APC). The second technician walks the route and taps each candidate cable: the wrong ones stay silent, the target answers with a tone that tracks the knock and a bar or ECG trace on the screen. Live traffic on the fiber is not disturbed, and the method works in manholes, tunnels, conduits and aerial spans.

Private Label & OEM

Supplied in neutral, unbranded stock as standard. Private labeling is made to your requirements — labels with your logo, part numbers and barcodes on the inner boxes and outer cartons, so the goods arrive ready for your warehouse. Custom barcode & contract labeling is applied to every inner box and outer carton to your receiving specification.

In the Box

One K-200 optical cable identifier (version as ordered); Soft carry bag; Earphones; DC power adapter.