Fiber Comprehensive Tester K-310

The FTTH door-step box: OTDR, power meter, light source, VFL, event map, network cable test and a work lamp in one 5-inch tester.

One 5-inch box for the FTTH door step: OTDR, optical power meter, light source, visual fault locator, an event map that draws the line's faults for you, a network cable test for the in-home Ethernet run, and a work lamp. Four OTDR builds — single or dual wavelength, with a filtered 1625 nm option for live fiber — at an honest 22/20 dB for last-mile spans.



K-310 fiber comprehensive tester front view with the eight-function touch home screen

Key Features

- Seven functions in one box: OTDR, optical power meter, light source, visual fault locator, event map, network cable test and LED lighting — the whole FTTH checklist without swapping instruments
- An event map (optical eye) that draws the drop line's faults in plain view — the answer a new installer can read, with the full OTDR trace behind it when you want the detail
- Four OTDR builds at an honest 22/20 dB: single or dual wavelength, and filtered builds — including 1625 nm — that can test live fiber
- The cable test covers the other half of the install: wire sequence and length on the Ethernet run, with open circuits, short circuits and crossed pairs called out
- Built for the doorstep and the dark cabinet: 5-inch touch screen with gesture operation, a work lamp, live-signal protection on the OTDR, and a lithium battery past 10 hours

Specifications

Functions	OTDR, optical power meter, light source, visual fault locator, event map, network cable test (sequence and length), LED lighting
OTDR wavelengths	By build: 1310/1550 nm dual-wavelength (K-310-D); 1310/1550 nm live-fiber build with automatic wavelength selection (K-310-N); 1625 nm filtered live-fiber build (K-310-F); 850/1300 nm multimode build (K-310-M)
OTDR dynamic range	22/20 dB; 20 dB on the 1625 nm build
Distance range	0.5 to 160 km
Event dead zone	2 m
Attenuation dead zone	10 m
Pulse widths	5 ns to 20 µs
Distance accuracy	±(1 m + sampling resolution + distance × 0.005%)
Linearity	±0.05 dB/dB
Fiber type	Single-mode
Display	5-inch 800 × 480 capacitive touch screen
Optical connector	FC / SC / ST / LC universal
Storage	4 GB or 8 GB

Optical power meter	Built-in: InGaAs, -50 to +16 dBm (grade A) or -50 to +26 dBm (grade B), 800–1700 nm, calibrated at 850/980/1300/1310/1490/1550/1625 nm
Light source	Built-in: 1310/1550 nm, output ≥ -7 dBm
Visual fault locator	Built-in, 650 nm, FC/UPC interface
Network cable test	Wire sequence and length; detects open circuit, short circuit and disordered (crossed) pairs
Battery	Lithium battery, >10 h continuous working

Model Guide — Choose Your Configuration

Model	Wavelengths	Fiber	Dynamic range	VFL
Singlemode builds				
K-310-D	1310/1550 nm	SM	22/20 dB	Built-in
K-310-N	1310/1550 nm (live fiber, auto wavelength selection)	SM	22/20 dB	Built-in
K-310-F	1625 nm (filtered, live fiber)	SM	20 dB	Built-in
Multimode build				
K-310-M	850/1300 nm	MM	22/20 dB	Built-in

Quote the model code with your inquiry — we confirm the build and lead time with your quote.

More Views



The OTDR trace view

In Use

At the customer's door the K-310 works the whole checklist: event map first for a plain-language picture of the drop, OTDR trace when you need the detail, power reading at the ONT, VFL for the visible break, then the cable test for the router run — sequence, length, opens and shorts. The lamp covers the dark cabinet; the battery covers the day.

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

K-310 fiber comprehensive tester main unit; AC/DC adapter; 4 GB USB flash disk; Calibration certificate; Quick user manual; FC optical connectors ×2.