K-535 Multi-Function Optical Power Meter

Four instruments in one hand: power meter, red-light fault locator, RJ45 cable sequencer and work light.

One FTTH visit asks four questions: how much light arrives, is the fiber whole, is the LAN run wired straight, and can anyone see inside this cabinet? The K-535 answers all four from one rechargeable unit — a wide-range power meter and a 650 nm fault locator for the glass, a sequence tester for the copper, and an LED for the dark.



K-535 in yellow — VFL key and the 1-8 RJ45 indicators

Key Features

- Four jobs, one instrument: power meter, red-light fault locator, RJ45 sequence tester and work light — the technician carries one unit, not a bag of single-purpose testers
- Two range versions: -70 to +6 dBm for loss-heavy FTTH drops after big splitters, and -50 to +26 dBm for transmitter-side and CATV levels that would saturate a sensitive meter
- The VFL is a real locator: 650 nm at 2, 10 or 30 mW as ordered, steady or blinking, so a break glows through the jacket and a macro-bend shows itself along the drop
- Seven standard wavelengths (850-1625 nm) with wavelength memory; the screen shows wavelength, nW and dBm together — no mode-hopping while a reading settles
- ±0.15 dB uncertainty with user calibration and user zeroing, so readings stay true against your own reference source and stand up at acceptance
- Rechargeable lithium battery, over 120 hours of working time, USB charging from a laptop or power bank; flip-out stand props the display at reading angle
- Private labeling made to your requirements — labels with your logo, part numbers and barcodes on the inner boxes and outer cartons, ready for your warehouse

Specifications

Measurement range	-70 to +6 dBm or -50 to +26 dBm (two versions)
Standard wavelengths	850 / 980 / 1300 / 1310 / 1490 / 1550 / 1625 nm
Wavelength range	800–1700 nm
Detector	InGaAs
Uncertainty	±0.15 dB
Display resolution	0.01 dBm
Display	Wavelength, linear power (nW) and dBm shown together; wavelength memory; backlight with auto-off
VFL (red light source)	650 nm; output 10 / 20 / 30 mW as ordered; steady-on and blink modes
RJ45 test	Cable sequence check with 1–8 indicator LEDs
Lighting	Built-in LED work light for dark cabinets and closures
Functions	User calibration and user zeroing; auto power-off after 10 min

Connector	SC / FC / ST interfaces
Power supply	Rechargeable lithium battery (USB charging); working time over 120 h
Operating temperature	-10 °C to +60 °C
Storage temperature	-25 °C to +70 °C
Dimensions	118 × 72 × 32 mm
Weight	150 g
Housing colours	Yellow or blue

Two Views

In blue the same three-reading display shows 1625 nm — wavelength, nW and dBm together. From the side, the flip-out stand is open: it props the meter on a shelf in the cabinet while both hands work the patch field.



In blue — the three-reading display



Side view — the flip-out desk stand

In Use

Work the visit in order: power first, then the red light, then the copper. Set the wavelength to the service under test, read the level, and zero on your reference source before loss work. Launch the VFL to prove the run — steady to identify the far end, blink to pick one fiber out of a tray. Finish with the RJ45 sequence test on the LAN run; the 1-8 indicators walk the cores in order. Clean the connector before every reading and keep the port cap closed between tests — four tools share this housing, and all of them depend on that one port.

OEM & Private Label

The K-535 is supplied in neutral, unbranded stock as standard. Private labeling is made to your requirements — labels with your logo, part numbers and barcodes on the tools, the inner boxes and the 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.