K-V30 Visual Fault Locator

A 50 g aluminum pen that makes the fault glow: five output powers from 5 mW to 50 mW at 650 nm, one button for CW and blink, and a 2.5 mm universal end that takes SC, FC and ST straight in.

The pen injects bright visible red light — 650 nm — into the fiber. Where the fiber is intact, the light stays inside the core and travels on. Where the glass is broken, sharply bent or badly joined, part of that light escapes through the side of the fiber, and because patch-cord jackets and buffer tubes are translucent, the escape shows as a glowing red spot at exactly the place that needs attention.



K-V30 pens in silver, black and blue

Key Features

- Five powers, one pen: 5 mW for short patch cords and pigtails inside the cabinet, the mid powers as all-round field versions, and 30 to 50 mW for longer runs where the beam has further to travel before it can leak out at the fault — same body, same universal connector, the power is set when you order
- One button does everything: a short press turns the pen on in CW for a steady glow while you trace a cord, the next press switches to blink — a flashing fault is far easier to pick out of a crowded frame than a steady light — and the next press turns it off; no menus, no setup
- Universal 2.5 mm connector takes FC, SC and ST ferrules directly, so the pen walks from the ODF to the floor box to the customer's ONT without swapping adapters; LC work goes through an FC-to-LC adapter, available separately
- The wear parts come off by hand: the 2.5 mm metal head and the 7 mm ceramic ferrule inside it are user-replaceable, so a worn or chipped ferrule is swapped in the field instead of retiring the whole pen — the ferrule is a wear part and sits outside the warranty, and we say so up front
- Aluminum alloy body in silver, black or blue — non-slip in the hand, corrosion-resistant, and at 50 g light enough to live in a shirt pocket or the test slot of a tool kit; the dust caps come in a range of colors and can be made in your brand color
- Checked before it ships: the switch is tested for 100,000 presses, and every finished pen passes a fiber break test after assembly before it is packed — the unit that arrives has already found a fault on the bench
- Runs on two AA batteries — cells you can buy anywhere in the world and swap in seconds, with no charger to carry and no built-in pack to age out

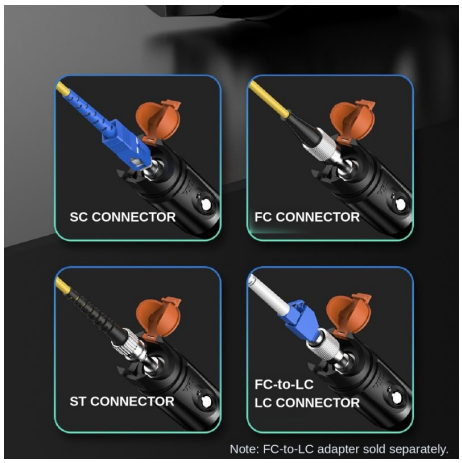
Specifications

Output power	Five versions — 5 / 10 / 20 / 30 / 50 mW, set when you order
Wavelength	650 nm (visible red)
Modes	CW continuous and blink (pulse) from one button — short press steps on / blink / off
Connector	Universal 2.5 mm — FC, SC and ST plug straight in; LC via FC-to-LC adapter (sold separately)
Head and ferrule	2.5 mm metal head and 7 mm ceramic ferrule, both user-replaceable; the ferrule is a wear part and is not covered by warranty
Body	Aluminum alloy, non-slip and corrosion-resistant — silver, black or blue
Dust caps	Multiple colors; custom colors made to order
Button life	Tested for 100,000 presses

Power supply	2 × AA batteries
Operating temperature	-10 °C to +60 °C
Storage temperature	-20 °C to +70 °C
Weight	50 g
Dimensions	165 × 26 mm

The Pen in Detail

One 2.5 mm end covers the connectors of the FTTH job — SC, FC and ST plug straight in, LC through the adapter. The dust caps come in a range of colors and are made in yours on request. In the box: the pen in the power you ordered, a cloth pouch, a wrist strap and two AA batteries.



One end for SC, FC, ST — and LC via adapter



Five powers — 5 to 50 mW, set when you order



Dust caps in your colors



In the box — pen, pouch, wrist strap, batteries

In Use

Seat the connector on the universal port, press once for CW and walk the cord with your eyes: a flare marks the break, the crush or the bend that is strangling the link. Press again for blink to pick your fiber out of a bundle. Never look directly into the beam, into the end of a live fiber or into the pen's port while it is on. Keep the dust cap on in the kit — the 2.5 mm port's ceramic ferrule is the accuracy of the instrument, and when it finally wears or chips it lifts out and a new one drops in.

OEM & Private Label

The K-V30 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.