# K-V10 Visual Fault Locator

One pen body in six output powers, 1 mW to 30 mW — breaks, bad bends and faulty connectors glow through the jacket.

The pen injects bright visible red light into the fiber. Where the glass is intact the light stays in the core; where it is broken, sharply bent or badly joined, light escapes and shows through the jacket as a glowing red spot, exactly at the fault. Thirty seconds with the pen answers the questions an OTDR cannot: is this jumper continuous, which pigtail in the tray is broken, did the drop cable survive?



K-V10 pens — the switch colours of the range

## Key Features

- Six powers, one pen: 1 mW for the patch panel and short jumpers, 10 mW as the all-round field version, 15 to 30 mW for long distribution spans — a break or a bad bend leaks light through the jacket and glows
- Two modes on one slide switch: CW for a steady glow when tracing a cord, GLINT pulse at about 2 Hz — a blinking cord identifies itself in a bundle, and a pulse stays visible on long runs
- Universal 2.5 mm connector takes FC, SC and ST ferrules directly; the same pen works on single-mode and multimode fiber
- Reference range from about 5 km at 1 mW to about 15 km at 30 mW on a continuous run, covering drop cables, distribution spans and in-building risers, the exact reach set by the fiber and its losses
- Pen format with dust cap and a battery LED beside the switch — green in normal operation, red when the two AA batteries run low: no warm-up, no menu, no manual
- The classic OTDR companion: it sees the first metres past the OTDR dead zone and names the broken pigtail in a tray before the big instrument comes out
- 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

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| **Output power** | Six versions — 1 / 10 / 15 / 20 / 25 / 30 mW |
| **Wavelength** | 650 ± 10 nm (visible red) |
| **Emitter** | FP-LD laser diode |
| **Modes** | CW continuous / OFF / GLINT pulse (approx. 2 Hz), slide switch |
| **Connector** | Universal 2.5 mm — FC, SC and ST ferrules |
| **Fiber types** | Single-mode and multimode |
| **Fault-location range** | Reference: approx. 5 km at 1 mW to approx. 15 km at 30 mW, depending on fiber, losses and conditions |
| **Power supply** | 2 × AA (LR6) alkaline batteries |
| **Battery indicator** | LED beside the switch — green in normal operation, red when the batteries run low |
| **Battery life** | GLINT mode: over 40 h (1 mW), over 12 h (10 mW), over 10 h (top powers); roughly half in CW |

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| **Operating temperature** | 0 °C to +60 °C |
| **Storage temperature** | -20 °C to +70 °C |
| **Weight** | 53 g (excluding batteries) |
| **Dimensions** | 175 × 26 × 26 mm |

## Three Views

The close-up reads the switch: CW for continuous light, OFF, and GLINT for the pulse mode. The two kit photographs show the pen as supplied — woven belt pouch, wrist lanyard, two AA batteries and the operation manual card — in blue and in orange.



The CW / OFF / GLINT switch



In blue, as supplied



In orange, as supplied

## In Use

Seat the connector on the universal port, slide to CW and walk the cord with your eyes: a flare marks the break, the crush or the bend that is strangling the link. Switch to GLINT to pick your fiber out of a bundle or to keep the light visible over a long run. Never look into the end of a fiber or into the port while the pen is on, and never inspect a live output through an unfiltered magnifier. Keep the dust cap on in the kit — grit in the alignment sleeve dims every test after. Mind the battery polarity when loading the cells: reversed batteries leave the pen dead and can damage it.

## OEM & Private Label

The K-V10 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.