K-528 Optical Light Source

A high-stability FP-LD light source for loss testing and fiber identification: 1310/1550 nm single-mode at −7 dBm (850/1300 nm multimode build available), CW or 270/1000/2000 Hz modulation, and 45 hours of work on three AA batteries.

A power meter alone can only say how much light arrived. To turn that into the loss of a link, you need a known, stable launch at the far end — that is the light source's job. The K-528 holds its FP-LD output steady at −7 dBm on 1310/1550 nm, the meter reads what is left at the far end, and the difference is the link loss you sign off. Its modulation tones do a second job: set 270, 1000 or 2000 Hz and the tone travels with the light, so the far end can prove which fiber is connected.



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Key Features

- Two builds cover the plant: 1310/1550 nm single-mode at −7 dBm output for FTTH, access and trunk work, or 850/1300 nm multimode at −20 dBm for premises and LAN fiber
- CW or modulated: run continuous wave for power and loss readings, or switch to a 270 / 1000 / 2000 Hz tone so the far end can identify your fiber with a power meter or an identifier — without disconnecting anything
- High-stability FP-LD output: wavelength and output power hold steady through a measurement run, which is what makes a loss figure repeatable from one visit to the next
- Everything on the LCD: working wavelength and modulation state on one backlit display, switched with the λ and MODE keys — no guessing what the source is sending
- Optional VFL on the same unit: the VFL key drives a built-in visual fault locator (build option), so one handheld launches the test signal and finds the visible fault
- 45 hours on three AA batteries, with auto-off for cabinet work; the metal dust cap rides on its chain so the FC port stays clean between jobs

Specifications

Wavelengths	1310/1550 nm (single-mode build); 850/1300 nm (multimode build)
Emitter	FP-LD laser
Output power	−7 dBm (1310/1550 nm); −20 dBm (850/1300 nm)
Modulation	CW / 270 Hz / 1 kHz / 2 kHz
Fiber type	Single-mode or multimode, by build
Connector	FC/PC
Display	Backlit LCD showing wavelength and modulation state
Power supply	3 × AA batteries
Battery life	45 hours
Operating temperature	−10 °C to +50 °C
Storage temperature	−20 °C to +70 °C
Weight	250 g

The Source in Detail

The tilt stand holds the source at reading angle on the bench or in the cabinet, and the FC/PC port on top is protected by a metal dust cap on a chain — the cap is there when you reach for it, and the spare adapter cap rides along. Let the source warm up for about 15 minutes after switch-on before taking readings you will sign off, and never look directly into the output port while the source is on.



On its tilt stand — bench and cabinet work



FC/PC port with chained metal dust cap

Measurement Notes

Output power is the launched power at the FC/PC port of the warmed-up source. Loss readings are taken against a reference measurement made with the same source and meter; keep the port clean — a dirty adapter sleeve lowers the launched power, and the port wipes clean with an alcohol swab. If the meter will sit unused for a long period, remove the batteries.

OEM & Private Label

The K-528 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.