

General Description

The BML209 is a compact, pen-style Visual Fault Locator (VFL) designed for fast and reliable fault detection in fiber optic cables and components. Emitting a 650 nm visible red laser, it illuminates faults, breaks, bends, and connector defects as bright red light that is easily visible through the fiber jacket or at splice points. Available in four output power variants — 1 mW, 10 mW, 20 mW, and 30 mW — the BML209 series offers dynamic detection distances from 3 km up to more than 10 km, making it suitable for everything from short patch-cord verification to extended outside-plant fiber runs. Both continuous wave (CW) and pulsed 2 Hz operation modes are supported, and a 2.5 mm universal adapter provides compatibility with the majority of fiber connectors encountered in the field. The instrument's slender 30 mm diameter barrel and 46 g weight make it effortlessly portable for daily field use.



Key Features

- 650 nm $\pm$ 20 nm visible red laser for instant fault and break localisation
- Four output power variants: 1 mW, 10 mW, 20 mW, and 30 mW for different reach requirements
- Dynamic detection distance: 3–5 km (1 mW) up to >10 km (20/30 mW variants)
- Dual operation modes: Continuous Wave (CW) and Pulsed (2 Hz) for identification
- 2.5 mm universal adapter connector; optional 1.25 mm adapter available
- Detects faults in connectors, splices, bends, breaks, and fiber splitter points
- Ultra-compact pen-style form factor: 180 mm $\times$ 30 mm diameter, 46 g
- Suitable for FTTH drop cables, patch cord verification, and outside-plant fiber runs
- Rugged, pocket-sized design for daily field technician use
- Optional 2.5 mm to 1.25 mm adapter for LC/MU connector compatibility

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Technical Specifications

Parameter	BML-209-1 / BML-209-10 / BML-209-20 / BML-209-30
Output Power	>1 mW / >10 mW / >20 mW / >30 mW
Dynamic Distance	3–5 km / 8–10 km / >10 km / >10 km
Wavelength	650 nm $\pm$ 20 nm
Operation Modes	Continuous Wave (CW) and Pulsed (2 Hz)
Connector	2.5 mm Universal adapter
Dimensions	180 mm (L) $\times$ 30 mm (diameter)
Weight	46 g

Optional 2.5 mm to 1.25 mm (LC/MU) adapter available on request. Order code example: BML209-10 (10 mW); BML209-10-LC (10 mW with LC adapter).

Applications

- Fault localisation in FTTH/FTTB drop cables, indoor wiring, and patch cords
- Verification of fiber continuity and connector end-face quality
- Splice point inspection and macro-bend fault detection in outside-plant cables
- Fiber splitter, coupler, and passive component testing
- Data centre fiber path tracing and short-link verification
- Emergency field repair and rapid fault identification in telecom networks

Ordering Information

Standard Package Contents

Item	Quantity
BML209 Fiber Fault Locator	1
Packing Box	1

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