

Features

- Fits in a shirt pocket
- 635nm red laser makes fiber breaks and bending losses easily visible
- 0.3mW output into 9/125µm single-mode fiber; 0.7mW output into 50/125µm graded-index multimode fiber
- Continuous wave output mode for steady fault illumination
- Blinking output mode increases viewing contrast
- Easy to use "Quick Connect" interface fits all 2.5mm fiber optic connectors
- Ergonomic rotary switch permits easy one-handed operation
- Two AAA-size alkaline batteries provide more than 12 hours of continuous operation
- Padded plastic carrying case included



Key Specifications

Nominal wavelength	635nm
Typical output power	0.3mW into 9/125µm SM 0.7mW into 50/125µm GI MM
Connector interface	Universal "Quick Connect" 2.5mm receptacle
Blink frequency	2 to 3Hz
Dimensions	Length: 15.7 cm (6.2 inches) Diameter: 1.15 cm (0.45 inch)
Weight	62 g (2.2 oz.)
CDRH laser class	Class II

Applications

Locating Breaks and Bending Losses

The 163L visual fault finder is an indispensable tool for quickly identifying bending losses and breaks in optical fibers. If a fiber is bent too tightly, red laser light will be seen escaping through the jacket. Likewise, if a fiber is broken, escaping light will be visible where the break is located.

Identifying Bad Ceramic Connectors



Ceramic connectors are easily tested using the 163L visual fault finder. A fiber broken inside, or past, the ferrule will cause it to glow, as shown above, at left. If the whole connector glows, it is definitely bad.

If the endface polish of the connector is bad, light will be reflected internally, as shown at right. This will also make the ferrule glow when the 163L is used.

Ordering Information

The 163L visual fault finder is shipped with two dust caps, two AAA-size alkaline batteries, and instructions, inside a protective plastic carrying case.

Part No.	Description
163L	163L visual fault finder

Specifications¹

Subject to change without notice

Center wavelength	635nm
Typical output power:	
Into 9/125µm SM	0.3mW
Into 50/125µm GI MM	0.7mW
Blink frequency in MOD mode	2 to 3 Hz
Power requirements	Two AAA-size 1.5V alkaline batteries
Battery life	Approx. 12 hours of continuous operation
Connector interface	Standard "Quick Connect" universal 2.5mm receptacle
Environmental:	
Operating temp.	-10°C to +40°C
Storage temp.	-40°C to +70°C
Dimensions	Length: 15.7 cm (6.2 in.) Diameter: 1.15 cm (0.45 in.)
Weight	62g (2.2 oz) with batteries
CDRH laser class	Class II

¹ Within specified ambient environment of +20°C to +25°C.

