

- 635nm red laser makes fiber breaks and bending losses easily visible
- 2.5mm FoPro™ fiber optic probe available at an additional charge—ideal for testing patch panels and multi-pin connectors
- FoPro™ fiber optic probe eliminates the need for specialized connector adapters
- Fixed FC-PC receptacle
- Up to 3 km range
- Stable calibrated output
- Proven, reliable, and compact design
- Easy to use—one switch controls all functions
- Continuous wave output mode for steady fault illumination
- Pulsed output mode increases viewing contrast
- Long battery life—more than 40 hours of continuous operation
- AC power converter and adapter available for prolonged or benchtop use
- Durable and rugged
- Economically priced



## Key Specifications

<b>Nominal wavelength</b>	635nm
<b>Wavelength range</b>	630nm to 640nm
<b>Spectral width (FWHM)</b>	< 2nm
<b>Peak power output<sup>1</sup>:</b>	
<b>Maximum</b>	0dBm (1.0mW)
<b>Minimum</b>	-5dBm (316µW)
<b>Pulsed output frequency</b>	< 3Hz (approximate)
<b>Connector interface</b>	Fixed FC-PC

<sup>1</sup> Into SMF-28 single-mode fiber, continuous wave or pulsed output mode.

## Applications

### Locating Breaks and Bending Losses

The 263LX 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 light will be seen escaping through the jacket. Likewise, if a fiber is broken, escaping light will be visible where the break is located.

Incorporating a fixed FC-PC receptacle, the 263LX is ideal for testing patch panels and multi-pin connectors. The FoPro™ fiber optic probe also eliminates the need for connector adapters and can be used for both male and female interfaces.

The 263LX features a pulsed output mode which increases viewing contrast when locating faults in difficult lighting conditions. The steady output during continuous wave operation may be used for measuring insertion loss in the visible 630nm wavelength region.

### Identifying Defective Ceramic Connectors



Ceramic connectors are easily tested using the 263LX 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 defective.

If the endface polish of a connector is worn, light will be reflected internally, as shown at right. This will also make the ferrule glow when the 263LX is used.



### Ordering Information

One standard 2.5mm FoPro™ fiber optic probe, with a 3-meter cable and terminated with an FC-PC connector (see photo above), can be included with the 263LX 635nm visual fault finder for an additional charge. Please specify the FoPro™ fiber type when ordering. Refer to the Standard FC-PC 2.5mm FoPro™ Probes table below for available fiber types and part numbers.

Part No.	Description
263LX	263LX visual fault finder

### Standard FC-PC 2.5mm FoPro™ Probes

Part No.	Description
FP26-101-03	SMF-28 single-mode, 3 meters
FP26-106-03	62.5/125µm GI multimode, 3 meters
FP26-110-03	100/140µm GI multimode, 3 meters

### Specifications<sup>1</sup> Subject to change without notice

<b>Center wavelengths:</b>	
<b>Nominal</b>	635nm
<b>Range (typical)</b>	630nm to 640nm
<b>Spectral width (FWHM)</b>	< 2nm
<b>Peak power output<sup>2</sup>:</b>	
<b>Maximum</b>	0dBm (1.0mW)
<b>Minimum</b>	-5dBm (316µW)
<b>Pulsed output frequency</b>	< 3Hz (approximate)
<b>Power requirements</b>	Two AA-size 1.5V alkaline batteries provide more than 40 hours of continuous operation
<b>Connector interface</b>	Fixed FC-PC receptacle
<b>Environmental:</b>	
<b>Operating temp.</b>	-10°C to +50°C
<b>Storage temp.</b>	-40°C to +60°C
<b>Humidity</b>	0 to 95% RH, non-condensing
<b>Dimensions</b>	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
<b>Weight</b>	200g (7 oz.)
<b>CDRH laser class</b>	Class II

<sup>1</sup> Within specified ambient environment of +20°C to +25°C.

<sup>2</sup> Into SMF-28 single-mode fiber, continuous wave or pulsed output.

