

# LFD-200

LIVE FIBER DETECTOR



Allows you to detect traffic and measure signals anywhere on singlemode fibers without having to disconnect them.

## KEY FEATURES

No need to open fiber for identification

Hands-free operation via Hold button

Three interchangeable adapter heads

Extended range model: 23 to -50 dBm

SPEC SHEET



EXFO

## NO-DISCONNECTION LIVE FIBER DETECTION

The LFD-200 Live Fiber Detector allows you to detect traffic and measure signals anywhere on singlemode fibers without having to disconnect them. It also lets you check for signal presence before rerouting or maintenance, perform continuity tests and verify cable labeling. Based on non-destructive macrobending technology, the LFD-200 doesn't disrupt traffic, damage or overstress the fiber, enabling efficient, accurate and reliable data acquisition.

### Simple Testing of Multiple Fiber Types

EXFO's LFD-200 is the only instrument of its kind on the market that comes with a choice of three built-in, interchangeable adapter heads, making it an all-in-one solution for live fiber detection.

The LFD-200 also features a unique Hold button that enables hands-free operation. Just push up the button and click it down. You are now free to operate your setup.



*The LFD-202 and LFD-202E features a storage compartment to hold extra adapter heads.*



## COMPLETE DIAGNOSIS. FAST.

Simply clamp the LFD-200 onto a fiber, listen for a beep indicating the presence of traffic, then view a complete status report on the multifunction LED display:

- › Signal presence or absence (live or dark fiber)
- › Signal type (customer traffic, continuous or modulated test signal at 270 Hz, 1 kHz or 2 kHz)
- › Signal direction
- › Core power within 2 dB (typical)

**LFD-200 SERIES: MODELS AND FEATURES**

	LFD-202	LFD-202V	LFD-202E
<b>Core power display</b>	√	√	√
<b>Maximum power range (dBm)</b>	0 to -40	23 to -50	23 to -50
<b>Over-range indicator</b>	√	√	√
<b>Fiber type</b>	Single fiber	Single fiber	Single fiber
<b>Fiber heads (included)</b>	3 mm 900 250/RIB	3 mm 900 250/RIB	3 mm 900 250/RIB
<b>Optional 2 mm head</b>	√	√	√
<b>Optional 1.6 mm head</b>	√	√	√
<b>Storage compartment for interchangeable heads</b>	√		√



**Standard Accessories (Interchangeable Heads)**

**3 mm**  
Extra head for jacketed fiber (3 mm)



**900**  
Extra head for jacketed fiber (900 μm)



**250/RIB**  
Extra head for coated fiber (250 μm) and ribbon fiber



## SPECIFICATIONS

### Optical Characteristics, Typical

Optical tone receiver	270 Hz, 1 kHz, 2 kHz
Detection technique	Non-destructive macrobending
Loss	< 0.6 dB at 1310 nm
Spectral response	800 nm to 1650 nm
Minimum fiber slack	1.2 cm (1/2 in) required for detection

### Core Power Detection, Typical<sup>a</sup>

LFD-202	0 dBm to -40 dBm
LFD-202E	23 dBm to -50 dBm
LFD-202V	23 dBm to -50 dBm

### Fiber Compatibility

Dual window, singlemode	8 µm to 10 µm core diameter
Coating diameter	250 µm diameter
Coating	High refractive index, acrylate

## GENERAL SPECIFICATIONS

Size (H x W x D)	<b>LFD-202 &amp; LFD-202E</b>	
	236 mm x 30 mm x 32 mm (9 5/16 in x 1 3/16 in x 1 1/4 in)	
	<b>LFD-202V</b>	
	197 mm x 30 mm x 32 mm (7 3/14 in x 1 3/16 in x 1 1/4 in)	
Weight	0.3 kg	(0.6 lb)
Battery	Standard 9 V alkaline battery	
Battery life	Approx. 5000 readings	
Temperature	Operating	-20 °C to 50 °C (-4 °F to 122 °F)
	Storage	-40 °C to 60 °C (-40 °F to 140 °F)
Humidity	0% to 90% non-condensing at 35 °C	

## OPTIONAL ACCESSORIES

Optional interchangeable 2 mm head

Optional interchangeable 1.6 mm head

Includes: LFD-200 carrying case, three interchangeable adapter heads, user guide, 9 V alkaline battery and Certificate of Compliance.

### Note

a. At 1550 nm.

## ORDERING INFORMATION

### LFD-20X-X

#### Live fiber detector ■

LFD-202 = Live fiber detector with core power reading display  
 LFD-202E = Core power reading display (23 dBm to -50 dBm)  
 LFD-202V = Core power reading display (23 dBm to -50 dBm)

#### Additional heads ■

00 = No additional heads  
 01 = With 2 mm interchangeable head  
 02 = With 1.6 mm interchangeable head  
 03 = With 2 mm and 1.6 mm interchangeable heads

Example: LFD-202-01

EXFO Headquarters > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | [www.EXFO.com](http://www.EXFO.com)

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to [www.EXFO.com/contact](http://www.EXFO.com/contact).

EXFO is certified ISO 9001 and attests to the quality of these products. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit [www.EXFO.com/recycle](http://www.EXFO.com/recycle). Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

For the most recent version of this spec sheet, please go to the EXFO website at [www.EXFO.com/specs](http://www.EXFO.com/specs).

In case of discrepancy, the web version takes precedence over any printed literature.