



LFI120

Live Fiber Identifier User Guide



For more information or to locate your nearest authorized Ripley® distributor, visit www.ripley-tools.com or call **1 (800) 528-8665** to speak with a customer service representative.



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Introduction

The LFI120 Live Fiber Identifier is an essential tool for fiber maintenance. It can be used for testing both singlemode and multimode fiber in a variety of places. The straightforward easy pull trigger operation ensures the job can be done quickly, and an audible warning helps identify both traffic direction and frequency ton, from 270Hz to 2KHz.

Device Overview



Sunshade

Protects the fiber optic cable and measurement from ambient light interference.

Interchangeable Adapter Heads

Easily switch to one of four included adapter heads for different size fiber.

Screen

The LFI120 screen indicates the Relative Core Power, Battery Level, and Traffic Direction.

Fiber Clamp

Easily slide the clamp upwards until it clicks into place, holding the fiber firm in the housing.

Battery Cover

Houses one 9V Alkaline battery

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Important Safety Information



Read and understand all of the instructions and safety information in this manual before operating this tool.



Laser/LED Hazard

Avoid eye exposure to open fiber connectors and interfaces when working with fiber systems. They may be connected to a live laser source.
Do not look into the output port of a Laser or LED source.
Point fiber endfaces toward non-reflective surfaces to prevent reflection of laser.



Electric Shock Hazard

Pay attention to proper battery polarity. Do not mix battery types or manufacturers.
Do not open the unit with the exception of the battery compartment door.
Use this unit only for its intended purpose as outlined in this document.



Damage to Item Hazard

Do not leave item in direct sunlight or near heat sources, submerge in water, or subject unit to strong impact.
Cover the fiber interface with the flip-cap when not in use.



Do not throw this product away

Contact your local recycling station to dispose of properly.

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Normal Usage

Select the appropriate adapter head according to the fiber type you are testing.



1. Insert the fiber into the adapter head, push the clamp upwards to lock it into place and cover with sunshade
2. When the optical signal passed through the fiber, the LED display will illuminate with the relative fiber core power in a digital format. The arrow indicators will illuminate to indicate the traffic direction if any traffic is detected. If there is a modulation tone present, the LFI120 will indicate the tone detected on the display and make an audible beep.
3. If not optical signal is detected in the fiber, the LED display will display "LO" to indicate that no relative core power was detected.

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Features

- Easy pull trigger operation for simple, no-fuss use
- Audible warning for frequency tone with on-screen indicator
- 3mm, 2mm, 900um, and 250um/200um adapters included
- Sunshade to protect fiber optic cable from ambient light interference
- LED battery indicator
- Live, in-line testing without interruption of live traffic
- Identifies present modulation tones, 270Hz, 1KHz, 2KHz
- Low Power Consumption with automatic shut-off
- Mechanical damping design ensures no damage to the fiber
- Strong and durable metal design with carry pouch

Notes

Audible Alerts

The LFI120 emits a continuous audible beep when a modulating signal is detected. If a tone is present, the display will also indicate the tone that is being detected.

Auto Off

The LFI120 turns off automatically if the clamp is not engaged. This is to save battery life.

Maintenance

Low Battery

The LFI120 provides the capability to perform over 100 tests under normal use conditions. If the devices battery becomes low, the battery level indicator on the screen will show as low, or the device may not turn on. If this happens, the 9V battery should be replaced with a high quality 9V replacement battery.

Optical Connector Detectors

The LFI120 is equipped with two optical detectors designed for reading the relative core power of the fiber and determining the traffic direction. It is imperative that these optical components should be kept covered and protected from contamination when not in use. A microfiber cloth or canned air may be used to remove large contaminant or dust that may become lodged near the detectors. Care must be taken to avoid objects that may damage the glass surface of the optical sensors. If visible scratches or cracks are observed on either detector, or if the device is no longer reading properly, please contact Ripley Tools for proper repair and potential re-calibration.

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Certifications, Accessories, & Contact Info

Calibration Certificates

The LFI120 comes calibrated and is recommended to be re-calibrated every 2 years. Included with the your purchase of a LFI120 comes a calibration certificate and free re-calibration within 2 years of the date of purchase. To request a calibration, simply call or email Ripley Tools technical support.

Warranty

The LFI120 comes with a 2 year warranty for any manufacturer defects or damage due to reasonable use. To start the RMA process simply email or call Ripley Tools technical support!

Live Fiber Identifier Accessories

LFI120 Accessories	
Part Number	Description
AC701	4 Adapter inserts for all size fibers
AC306	9V Battery Replacement

LFI120 Specifications

Specifications		
Detector Type	2x 1mm InGaAs Detectors	
Identified Signal Type	CW, 270Hz \pm 5%, 1KHz \pm 5%, 2KHz \pm 5% (Frequency detected displayed on screen)	
Wavelength Range	800nm to 1700nm	
Signal Direction Indication	Left & Right LED Arrow Indicators	
Resolution	1 dB	
Signal Direction Test Range (CW/0.9mm bare fiber)	-46 - 10dBm (1310nm), -50 - 10dBm (1550nm)	
Signal Power Test Range (CW/0.9mm bare fiber)	-50 - +10dBm	
Display	High Visibility Segment LED Screen	
Frequency Test Range (Average Value)	0.9mm, 2.0mm, or 3.0mm Adapters	-30 - 0dBm (270Hz, 1KHz)
		-25 - 0dBm (2KHz)
	0.25mm Adapter	-20 - 0dBm (270Hz, 1KHz)
		-20 - 0dBm (2KHz)
Insertion loss	0.8dB (1310nm) , 2.5dB (1550nm)	
Storage Temperature	-25°C to +70°C	
Operating Temperature	-10°C to +60°C	
Battery	9V Alkaline Battery	
Dimensions	196mm x 30.5mm x 27mm	
Weight	0.7lbs. (317g) With storage bag and adapters / 0.5lbs. (239g) Device only	

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