

**FID-30R / FID-31R**

**NEW**

# One-Shot, Detects All



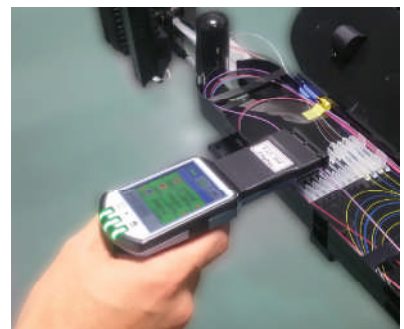
*Optical Fiber Identifier*

## **FID-30R / FID-31R**

*with Optical Power Meter*

*Standard Model*

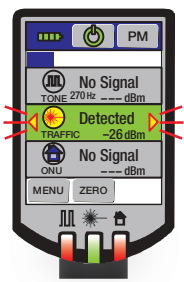
- World's highest signal detection sensitivity
- Data center multimode fiber signal detection
- ONU signal detecting function
- Trigger lock / Robust Body design
- 2.4" color touch screen with backlight



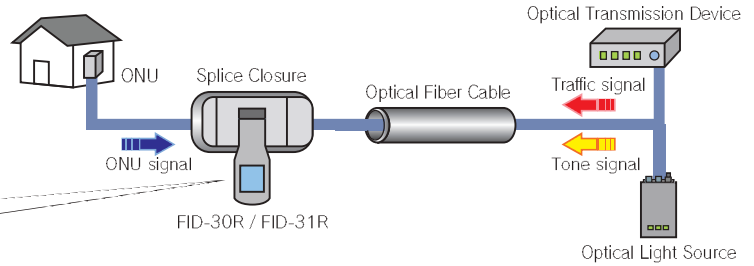
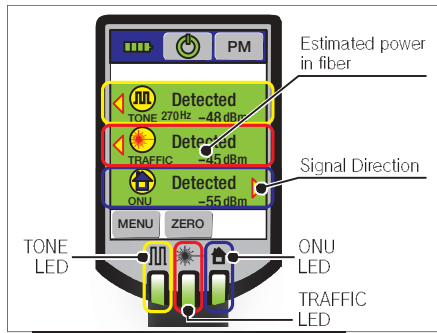
Operation Style

 **Fujikura**

# FID-30R / FID-31R Optical Fiber Identifier



Detecting external light



## APPLICATION & OPTICAL SPECIFICATION

Fiber application	Detecting all signals individually automatically						Insertion loss (dB)			Sensitivity (dBm)*2		
	Traffic (CW)	270 Hz	1 kHz	2 kHz	ONU signal*1	Signal direction	1310 nm	1550 nm	1650 nm	1310 nm	1550 nm	1650 nm
Single fiber 0.25 mm (R30)	✓	✓	✓	✓	✓	✓	0.2	1.0	2.5	-58 (-53 / -64)	-67 (-62 / -73)	-67 (-62 / -73)
Single fiber 0.25 mm (R15)	✓	✓	✓	✓	✓	✓	0.1	0.3	1.0	-44 (-39 / -50)	-57 (-52 / -63)	-57 (-52 / -63)
Single fiber 0.5 mm	✓	✓	✓	✓	✓	✓	0.2	1.0	2.5	-58 (-53 / -64)	-67 (-62 / -73)	-67 (-62 / -73)
Single fiber 0.9 mm	✓	✓	✓	✓	✓	✓	0.3	1.5	2.5	-28 (-23 / -34)	-33 (-28 / -39)	-38 (-33 / -44)
Fiber ribbon up to 12 fibers	✓	✓	✓	✓	✓	✓	0.3	1.0	2.5	-44 (-39 / -50)	-57 (-52 / -63)	-57 (-52 / -63)
Fiber cord 1.1 to 1.5 mm	✓	✓	✓	✓	✓	✓	0.3	1.0	2.5	-43 (-37 / -53)	-55 (-50 / -61)	-55 (-50 / -61)
Fiber cord 1.7 to 2.0 mm	✓	✓	✓	✓	✓	✓	0.5	2.0	3.0	-22 (-17 / -28)	-27 (-22 / -33)	-27 (-22 / -33)
Fiber cord 3.0 mm	✓	✓	✓	✓	✓	✓	1.0	3.0	3.0	-20 (-15 / -25)	-23 (-18 / -28)	-23 (-18 / -28)

NOTE : Insertion loss and Sensitivity varies due to coating material / color, etc.

ONU Detector Operating range	Wavelength range	Light Signal Power in the fiber
G(E) -PON upper stream signal	850 - 1700 nm	-7.5 ~ +9.0 dBm
G(E) -PON down stream signal		-25.5 ~ -6.2 dBm
VCAST down stream signal		-12.0 ~ +3.3 dBm
B-PON upper stream		-5.5 ~ +4.0 dBm
B-PON down stream		-20.6 ~ -11.7 dBm

## SPECIFICATIONS

Applicable fiber	Fiber type	Singlemode fiber, Multimode fiber
	Sheath / Count	0.25 mm coating, Ribbon fiber up to 12-fiber, or Fiber cord : 1.1 mm, 1.5 mm, 1.7 mm, 2.0 mm, or 3.0 mm
Optical characteristics	Wavelength range	850 - 1700 nm
	Detectable light signals	Traffic signal (CW), Light signal with modulated tones at 270 Hz, 1 kHz, or 2 kHz (square wave 50 ± 10 % duty cycle)
Shock Resistance	76 cm (30 inch) drop <sup>3</sup>	
Operating / Storage conditions	-10 to +50 °C, 0 to 95 % RH / -20 to +60 °C, 0 to 95 % RH	
Power supply / Battery Life	1.2 to 1.5 V DC with two AA batteries / Approximately 8 hours by alkaline batteries at room temperature	
Dimensions and weight	50 (W) × 115 (H) × 212 (D) mm, 230 g including battery	
Power meter (FID-30R only)	Wavelength response	1310 nm, 1490 nm, 1550 nm
	Detectable light signals	Traffic signal (CW), Light signal with modulated tones at 270 Hz, 1 kHz, or 2 kHz (square wave 50 ± 10 % duty cycle)
	Detector Sensitivity	+10 to -60 dBm at modulated tone / +10 to -40 dBm at CW light (traffic signal)
	Accuracy	Within ± 0.3 dB at room temperature

\*1 Require optimization for use by authorized distributor.

\*2 Nomal (Fast / Fine) mode typical data.

\*3 Carried out in Fujikura labs in Japan. The test do not guarantee that the product will not be damaged under this condition.

## STANDARD PACKAGE

Optical fiber identifier	Plunger	Carrying case	Instruction manual	Quick reference guide	Power meter Connector head
FID-30R	PL-06	FID-CASE-02	IM-FID30R	QR-30R/31R-E	OCH-02-UC (Ø2.5 Universal type)
FID-31R	PL-06	FID-CASE-02	IM-FID30R	QR-30R/31R-E	-

NOTE : FID-30R / 31R standard package doesn't include batteries.

## OPTIONAL ITEMS

Description	Model No.	Use for
Connector head	OCH-02-SC	FID-30R, SC connector
	OCH-02-FC	FID-30R, FC connector
	OCH-02-ST	FID-30R, ST connector
	OCH-02-LC	FID-30R, LC connector

## STANDARD PACKAGE (FID-30R)



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Specifications and descriptions are subject to change without prior notice.

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