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Data Sheet

August 2, 2026

FUJIKURA

Fujikura FSM-70R Fiber Fusion Splicer

The Fujikura FSM-70R is a core alignment fusion splicer used for splicing single fibers. It features a high-resolution core alignment system, automated splice and heater cycles, and a ruggedized design for field use. It is suitable for various applications, including telecommunications, data centers, and fiber optic cable manufacturing.



MODEL

Fujikura FSM-70R

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FSM-70R

LISTING

<https://aumictechlabs.com/products/fsm-70r-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura FSM-70R is a core alignment fusion splicer engineered for precision splicing of single optical fibers in field and laboratory environments. Active core alignment technology delivers real-time splice loss estimation, while dual 400x magnification cameras enable accurate fiber positioning. Automated splicing and heater cycles complete SM fiber splices in approximately 7 seconds in FAST mode. The unit stores up to 10,000 splice records, performs up to 200 splices per battery charge, and operates across altitudes to 5,000 m and temperatures from -10°C to +50°C. Technical Specifications Applicable Fibers: Single Fiber (SM, MM) Cladding Diameter: 80 µm to 150 µm Coating Diameter: Up to 1000 µm Cut Length: 5 mm to 16 mm Splicing Time: Approximately 7 seconds (SM fiber, FAST mode) Splice Capacity: 200 splices per full battery charge Magnification: Dual cameras, 400x Alignment Method: Active core alignment Heater: Automated, programmable Splice Data Storage: 10,000 records Operating Altitude: Up to 5,000 m

Operating Temperature: -10°C to +50°C Humidity Range: 0% to 95% RH (non-condensing) Wind Protection Rating: Up to 15 m/s Display: 4.1-inch color LCD touchscreen Battery: Rechargeable Lithium-ion AC Input: 100–240 V AC, 50/60 Hz DC Output: 12 V Dimensions: 143 mm (W) × 155 mm (D) × 170 mm (H), excluding handle Weight: Approximately 2.5 kg (with battery) Key Features Real-time splice loss estimation via advanced core alignment Dual high-resolution cameras for precise fiber positioning Automated protection heater with programmable cycles Ruggedized casing rated for field drops and environmental exposure USB mini-B port for firmware updates and splice data transfer Single-charge operation supports full workday splicing and heating cycles Typical Applications Telecommunications network infrastructure deployment and maintenance High-density data center fiber termination Fiber optic cable manufacturing and quality assurance Field service and restoration in challenging environments Compatibility & Integration Universal fiber holders and pre-fabricated cleaver holders Fujikura standard protection sleeves (60 mm, 90 mm) Software updates via USB connection

Features & description

From manufacturer datasheet

Features

- Fixed V-groove; single and ribbon up to 12 fibers
- Automated programmable wind protector
- Auto-start clamshell tube heater; about 40 s for 12-fiber FP-5
- Typical 15 s SM splice
- Typical loss 0.05 / 0.02 / 0.08 / 0.08 dB (SM/MM/DS/NZDS)
- About 110 splice/heat cycles per battery (power save)
- Mirror-less optics; rugged shock/dust/moisture design
- Transit case doubles as workstation
- Related: 70R+ (Bluetooth)

FSM70R Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-70R
Manufacturer	Fujikura / AFL
Instrument Type	Fixed V-groove ribbon fusion splicer
Applicable Fibers	SM (G.652 & G.657), MM (G.651), DS (G.653), NZDS (G.655)
Fiber Count	Single, 2, 4, 5, 6, 8, 10, 12
Cladding Diameter	125 um
Coating Diameter	Ribbon 0.25-0.4 mm; Single 250 um and 900 um
Cleave Length	10 mm
Typical Average Splice Loss	0.05 dB SM; 0.02 dB MM; 0.08 dB DS; 0.08 dB NZDS
Splicing Time	typically 15 s standard SM
Arc Calibration	automatic real-time AUTO; manual available
Splicing Modes	100 preset and user programmable
Storage	last 2000 results
Display	dual cameras; about 4.7-inch TFT color LCD; front or rear options
Magnification	about 35X to 90X
Operating	0-3660 m; 0-95% RH; -10 to 50 C
Proof Test	1.96-2.25 N
Tube Heater	30 modes; auto-start; typically 40 s FP-5; 17 s FP3(40); 5-15 s micro
Sleeves	60 mm, 40 mm, Micro
Battery Cycles	typically 110 with power save
Electrode Life	about 1500 arc discharges
Power	100-240 VAC or 10-15 VDC with adapter; battery pack (BTR-08/BTR-09 class per kit)
Wind Protection	max 15 m/s
Dimensions	146 × 159 × 150 mm

PARAMETER

VALUE

Weight

about 2.3 kg with AC adapter; about 2.5 kg with battery Standard
Operating Conditions Use matching FH-50 series holders for ribbon
count. Clean V-grooves between splices. Charge battery per Fujikura
guidance. Replace electrodes near rated life.

Related

70R+ (Bluetooth)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Standard Operating Conditions

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Operational Notes

Confirm FSM-70R vs 70R+ on the faceplate-Bluetooth and later power accessories distinguish the Plus revision.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.