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Data Sheet

August 13, 2026

FUJIKURA

Fujikura FSM-60S Core Alignment Fusion Splicer

The Fujikura FSM-60S is a core alignment fusion splicer known for its reliability and precision in splicing optical fibers. It is widely used in telecommunications, data centers, and other applications requiring high-quality fiber optic connections. This model offers automated splicing and heating cycles, reducing operator error and improving efficiency. Features include a high-resolution display, multiple language options, and onboard data storage for splice results.



MODEL

Fujikura FSM-60S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FSM-60S

LISTING

<https://aumictechlabs.com/products/fsm-60s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura FSM-60S is a precision core alignment fusion splicer engineered for low-loss optical fiber splicing in telecommunications networks, data centers, and research laboratories. Using Profile Alignment System (PAS) technology, it delivers splice losses below 0.02 dB for single-mode fiber while accommodating a broad range of fiber types and diameters. The instrument combines dual-camera image processing, automated splicing protocols, and field-hardened construction to enable reliable optical interconnections in demanding environments. Technical Specifications Splicing Performance Method: Core Alignment (PAS) Profile Alignment System Splice time: 7 seconds typical (standard SMF, speed mode) Heating time: 14 seconds typical (60 mm protection sleeve, standard mode) Splice loss: SMF-SMF <0.02 dB, SMF-MMF <0.03 dB,

MMF-MMF <0.05 dB, DSF-DSF <0.04 dB, NZDSF-NZDSF <0.04 dB Fiber Compatibility Single-mode (SMF), multi-mode (MMF), dispersion-shifted (DSF), NZDSF, specialty fibers Cladding diameter: 80 µm to 150 µm Coating diameter: 100 µm to 1000 µm Protection sleeves: 60 mm, 40 mm, micro-sleeve formats Optical System Display: 5.6-inch color LCD Magnification: 180× (single display), 360× (dual display) Imaging: Dual cameras for simultaneous fiber end-face and core alignment viewing Power & Runtime AC input: 100 to 240 V AC, 50/60 Hz DC input: 12 to 18 V DC Battery: Lithium-ion rechargeable, ~200 splices per full-cycle charge Environmental Specifications Operating temperature: -10°C to +50°C Storage temperature: -40°C to +80°C Humidity: 0% to 95% RH (non-condensing) Altitude: Up to 5,000 m Wind velocity: Up to 15 m/s Drop test: 76 cm onto wooden surface without failure Physical Dimensions Size (W × D × H): 196 mm × 160 mm × 178 mm (excluding case) Weight: 2.9 kg (excluding battery)Key Features Dual-camera simultaneous alignment and end-face inspection Internal memory for splice data and parameter storage USB interface for data transfer and firmware updates Field-rated drop durability and environmental sealingCompatibility & Integration The FSM-60S integrates with standard optical fiber types and protection sleeve systems. USB connectivity enables external data management and system updates.

Features & description

From manufacturer datasheet

Features

• Core alignment with dual cameras • Typical SM splice 9 s; FP-03 heat ~30 s • 100 splice modes; 2000 result storage • 4.1" TFT LCD; 300X single-axis view • Wind protection to 15 m/s • AC/DC/battery power options

Applications

• Field FTTx / outside-plant fiber splicing • Core-alignment SM/MM/DS/NZDS splicing • Battery-powered splice and heat cycles • High-altitude operation to 5000 m

FSM60S Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-60S
Manufacturer	Fujikura
Instrument Type	Core Alignment Fusion Splicer
Applicable Fibers	SM G.652/G.657; MM G.651; DS G.653; NZDS G.655
Cladding Diameter	80–150 µm
Coating Diameter	100–1000 µm
Typical Splice Loss SM	0.02 dB
Typical Splice Loss MM	0.01 dB
Typical Splice Loss DS/NZDS	0.04 dB
Splicing Time Typical SM	9 seconds
Splicing Modes	100 preset and user programmable
Splice Result Storage	last 2000 results
Magnification	300X singleXor Y; 187X dual
Display	Dual cameras; 4.1-inch TFT color LCD
Protection Sleeve Lengths	60 mm; 40 mm; micro
Mechanical Proof Test	1.96–2.25 N
Operating Altitude	0–5000 m
Operating Temperature	–10 to 50 °C
Humidity	0–95% RH
Wind Protection	max 15 m/s (34 mph)
Power	100–240 Vac or 10–15 Vdc with ADC-11; 13.2 Vdc BTR-08
Battery Cycles Typical	160 splice/heat with power save
Dimensions	136 × 161 × 143 mm
Terminals	USB 1.1 for PC Notes Specs from Fujikura FSM-60S fusion splicer specification sheet. Confirm battery/adapter kit with listing.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	−10 to 50 °C
Operating Temperature	−10 to 50 °C
Humidity	0–95% RH
Wind Protection	max 15 m/s (34 mph)
Power	100–240 Vac or 10–15 Vdc with ADC-11; 13.2 Vdc BTR-08
Battery Cycles Typical	160 splice/heat with power save
Dimensions	136 × 161 × 143 mm
Terminals	USB 1.1 for PC Notes Specs from Fujikura FSM-60S fusion splicer specification sheet. Confirm battery/adapter kit with listing.

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	
Specifications	
PARAMETER	VALUE
Model	FSM-60S
Manufacturer	Fujikura
Instrument Type	Core Alignment Fusion Splicer
Applicable Fibers	SM G.652/G.657; MM G.651; DS G.653; NZDS G.655
Cladding Diameter	80-150 μm
Coating Diameter	100-1000 μm
Fiber Cleave Length 250 μm: 8-16 mm	
Fiber Cleave Length 900 μm: 16 mm	
Specifications	
PARAMETER	VALUE
Typical Splice Loss SM	0.02 dB
Typical Splice Loss MM	0.01 dB
Typical Splice Loss DS/NZDS	0.04 dB
Splicing Time Typical SM	9 seconds
Splicing Modes	100 preset and user programmable
Splice Result Storage	last 2000 results
Magnification	300X singleXor Y; 187X dual
Display	Dual cameras; 4.1-inch TFT color LCD
Tube Heating Time FP-03 Typical: 30 seconds	
Specifications	
PARAMETER	VALUE
Protection Sleeve Lengths	60 mm; 40 mm; micro
Mechanical Proof Test	1.96-2.25 N
Operating Altitude	0-5000 m
Operating Temperature	-10 to 50 °C

PARAMETER	VALUE
Humidity	0-95% RH
Wind Protection	max 15 m/s (34 mph)
Power	100-240 Vac or 10-15 Vdc with ADC-11; 13.2 Vdc BTR-08
Battery Cycles Typical	160 splice/heat with power save
Dimensions	136 × 161 × 143 mm

Weight with ADC-11: 2.3 kg
Weight with BTR-08: 2.7 kg
Terminals: USB 1.1 for PC

Notes
Specs from Fujikura FSM-60S fusion splicer specification sheet. Confirm battery/adapter kit with listing.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.