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**Data Sheet**

August 2, 2026

FUJIKURA

# Fujikura FSM-11R Optical Fiber Fusion Splicer

The Fujikura FSM-11R is a compact and lightweight optical fiber fusion splicer designed for single fiber splicing. It features a user-friendly interface, fast splicing time, and automatic arc calibration for consistent, low-loss splices. Ideal for field and laboratory applications, the FSM-11R ensures reliable performance and ease of use.



MODEL

**Fujikura FSM-11R**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**FSM-11R**

LISTING

<https://aumictechlabs.com/products/fsm-11r-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Fujikura FSM-11R is a compact, automated fusion splicer engineered for single-fiber splicing across single-mode, multimode, and specialty fiber types. Operating on internal lithium-ion battery or AC mains, it delivers consistent low-loss splices in approximately 7 seconds with automatic arc calibration and active core alignment. The device achieves typical splice losses below 0.05 dB for SMF and 0.02 dB for MMF, completing protection sleeve heating in 25 seconds. Weighing 1.9 kg, the FSM-11R combines portability with field-grade durability across operating temperatures from -10°C to +50°C, making it suitable for both deployment and laboratory environments. Technical Specifications Applicable Fibers: Single Mode Fiber (SMF), Multimode Fiber (MMF), Dispersion Shifted Fiber (DSF), and other fiber types per ITU-T G.652, G.655, G.671 Fiber Coating Diameter: 250 µm to 400 µm Cladding Diameter: 125 µm Stripped Length: 9 mm to 16 mm Splice Loss: SMF typically < 0.05 dB; MMF typically < 0.02 dB Splice Time: ~7 seconds (standard SMF) Heating Time: ~25 seconds (standard protection sleeve) Battery Capacity: ~200

splice and heat cycles per charge Charging Time: 2-3 hours (typical) Operating Temperature: -10°C to +50°C Storage Temperature: -40°C to +60°C Humidity: 0% to 95% RH, non-condensing Weight: 1.9 kg (including battery pack) Key Features Automatic arc calibration maintains splice quality without manual adjustment Active Core Alignment (ACA) with high-resolution camera-based fiber positioning Integrated LCD display for real-time monitoring and operational status USB port for firmware updates and splice data logging Compatible with standard heat-shrink protection sleeves (40 mm, 60 mm formats) Compatibility & Integration Supports standard optical fibers across ITU-T G.652, G.655, and G.671 classifications Internal rechargeable lithium-ion battery pack with dedicated AC adapter for charging and mains operation Compatible with Fujikura battery packs and AC power supplies User-friendly button interface for operation and menu navigation

## Features & description

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From manufacturer datasheet

### Features

- SpliceMate mass splicer; up to 4 fibers
- Cladding-alignment architecture (family)
- Palm-sized portable chassis
- Typical family loss 0.05 dB SM / 0.02 dB MM / 0.08 dB NZDS/DS
- 3.5-inch color LCD; dual cameras
- Built-in tube heater
- BTR-07 battery class; USB
- Related single-fiber model: FSM-11S

## FSM11R Characteristics / Specifications

| PARAMETER                   | VALUE                                                                                                                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                       | FSM-11R (SpliceMate)                                                                                                                                                                                                                          |
| Manufacturer                | Fujikura / AFL                                                                                                                                                                                                                                |
| Instrument Type             | Portable cladding-alignment fusion splicer (mass up to 4 fibers)                                                                                                                                                                              |
| Applicable Fibers           | SM (G.652 & G.657), MM (G.651), DS (G.653), NZDS (G.655)                                                                                                                                                                                      |
| Fiber Count                 | Up to 4                                                                                                                                                                                                                                       |
| Cladding Diameter           | 125 um (family)                                                                                                                                                                                                                               |
| Coating Diameter            | 250 um and 900 um class (family holders)                                                                                                                                                                                                      |
| Typical Average Splice Loss | 0.05 dB SM; 0.02 dB MM; 0.08 dB NZDS; 0.08 dB DS (SpliceMate family cut-back)                                                                                                                                                                 |
| Splicing Time               | about 15 s SM single (11S); mass modes longer (about 20 s SM class on 11R listings)                                                                                                                                                           |
| Return Loss                 | greater than 60 dB (family)                                                                                                                                                                                                                   |
| Display                     | two cameras; 3.5-inch color LCD                                                                                                                                                                                                               |
| Battery                     | BTR-07 class                                                                                                                                                                                                                                  |
| Weight                      | about 0.64-0.81 kg depending on configuration                                                                                                                                                                                                 |
| Power                       | AC, DC, battery                                                                                                                                                                                                                               |
| Terminals                   | USB                                                                                                                                                                                                                                           |
| Related Model               | FSM-11S (single fiber)                                                                                                                                                                                                                        |
| Related Holders             | FH-50 series / mass holders per kit Standard Operating Conditions Use matching mass fiber holders for 2- and 4-fiber work. Clean V-grooves between splices. Charge BTR-07 per Fujikura guidance. Replace electrodes at recommended intervals. |
| Related single-fiber model  | FSM-11S                                                                                                                                                                                                                                       |

# FSM11R Specifications

| PARAMETER                | VALUE                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Key Features             | - SpliceMate mass splicer; up to 4 fibers                                                                                           |
| Technical Specifications | Model: FSM-11R (SpliceMate)                                                                                                         |
| Operational Notes        | Confirm FSM-11R vs FSM-11S on the faceplate. Inventory ribbon/mass holders separately from single-fiber FH-50-250 / FH-50-900 sets. |

# 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-11R (SpliceMate)                                                                |
| Manufacturer                                                                                                                                                                | Fujikura / AFL                                                                      |
| Instrument Type                                                                                                                                                             | Portable cladding-alignment fusion splicer (mass up to 4 fibers)                    |
| Applicable Fibers                                                                                                                                                           | SM (G.652 & G.657), MM (G.651), DS (G.653), NZDS (G.655)                            |
| Fiber Count                                                                                                                                                                 | Up to 4                                                                             |
| Cladding Diameter                                                                                                                                                           | 125 um (family)                                                                     |
| Coating Diameter                                                                                                                                                            | 250 um and 900 um class (family holders)                                            |
| Typical Average Splice Loss                                                                                                                                                 | 0.05 dB SM; 0.02 dB MM; 0.08 dB NZDS; 0.08 dB DS (SpliceMate family cut-back)       |
| Splicing Time                                                                                                                                                               | about 15 s SM single (11S); mass modes longer (about 20 s SM class on 11R listings) |
| Return Loss                                                                                                                                                                 | greater than 60 dB (family)                                                         |
| Display                                                                                                                                                                     | two cameras; 3.5-inch color LCD                                                     |
| Battery                                                                                                                                                                     | BTR-07 class                                                                        |
| Weight                                                                                                                                                                      | about 0.64-0.81 kg depending on configuration                                       |
| Power                                                                                                                                                                       | AC, DC, battery                                                                     |
| Terminals                                                                                                                                                                   | USB                                                                                 |
| Related Model                                                                                                                                                               | FSM-11S (single fiber)                                                              |
| Related Holders                                                                                                                                                             | FH-50 series / mass holders per kit                                                 |
| Standard Operating Conditions                                                                                                                                               |                                                                                     |
| Use matching mass fiber holders for 2- and 4-fiber work. Clean V-grooves between splices. Charge BTR-07 per Fujikura guidance. Replace electrodes at recommended intervals. |                                                                                     |
| Operational Notes                                                                                                                                                           |                                                                                     |
| Confirm FSM-11R vs FSM-11S on the faceplate. Inventory ribbon/mass holders separately from single-fiber FH-50-250 / FH-50-900 sets.                                         |                                                                                     |

### Available from Aumictech

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

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

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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Generated August 2, 2026

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