

## Ribbon Fiber Fusion Splicer

# s124 **M12**



Up to 12-fiber ribbon splicing

High speed splicing of 15 seconds

Interchangeable V-groove system

200  $\mu\text{m}$  coating fiber ribbon is applicable by changing V-groove

Easy operation with touch panel and GUI

3 LED lights allow convenient loading of fibers in V-groove

Wi-Fi Connection allows wireless control and data management

## Specifications

Applicable fibers <sup>*1</sup>	SM (ITU-T G.652 / G.657A1 / G.657A2)	
	MM (ITU-T G.651)	
	DS (ITU-T G.653)	
	NZD (ITU-T G.655)	
	BIF (ITU-T G.657.A1/A2)	
Fiber Count	Up to 12-fibers	
Cladding diameter	125µm	
Fiber coating diameter	Single fiber	0.25mm, 0.9mm
	Ribbon fiber	Refer to Fiber Holder
Fiber cleaving length	10mm	
Average splice loss <sup>*2</sup>	SM : 0.05dB    MM : 0.03dB	
	DS : 0.08dB    NZD : 0.08dB    BIF : 0.05dB	
	12-fiber ribbon : 15sec.	
Typical splice time	Single fiber : 13sec.	
	12-fiber ribbon : 28sec. (S927R, power mode)	
Typical heating time	8-fiber ribbon : 14sec. (S924, power mode)	
	Single fiber : 13sec (S921, power mode)	
	Max. 300	
Splice program	Max. 100	
Heat program	Max. 100	
Applicable protection sleeve length	40mm / 60mm	
Tension test	1.96N	
Discharge compensation function	Automatic correction according to temperature and atmospheric pressure	
Optical fiber viewing method	Two-way observation from X and Y axes	
Monitor	4.3 inch wide LCD monitor with touch screen	
Magnification	20X, 28X (in zooming), 56X (in zooming)	
Splice result storage / Image capture capacity	Last 10,000 splices /	
	Last 100 images to be automatically captured	
Dimensions	139W x 209D x 114H mm not including shock absorber	
	179W x 246D x 131H mm including shock absorber	
Weight	1.8kg (with battery)	
Data output	USB ver.2 mini B x 1 port, Standard A x 1 port	
Power source	AC : 100-240V (50/60Hz)    DC : 11-24V	
Battery capacity <sup>*3</sup>	170 splice and heating cycles	
Operating condition	Altitude : 0-2,000m    Wind protection : 15m/s	
	Operating temperature : -10 to +50 °C (non-condensing)	
Storage condition	-40 to +60 °C (non-condensing)	

\*1 Corresponding to optical fiber in compliance with ITU-T recommendation.

\*2 This numerical number is the one when measured for the purpose to show the fusion splice characteristics in the testing method of IEC 61073-1, it is not the one to guarantee the splicing loss.

\*3 Number of times that the fusion splicing of the fiber and the heat reinforcement can be performed continuously at a rate of once a 90seconds at the room temperature (20°C) condition when using a new 100% charged battery. The number of times you can use depends on the state of the battery and usage.

## Environmental Durability

Drop impact	Vertical drop test (5sides excluding the top side) is conducted from a height of 76cm and the normal operation is confirmed.
Impact protection	The normal operation is confirmed after dropping a 500grams weight of IK 07 grade from the height of 40cm onto the equipment.
Dustproof	The normal operation is confirmed after putting the equipment in a device containing dust of 25µm or less for 8hours.
Drip proof	The normal operation is confirmed after exposing water droplet of IPX 2 grade with 3mm/min to 4sides for 2.5min or more tilted by 15degree.

\* It is not the guarantee of no break or no failure of this product since the test is performed with the draft shield closed.

## Standard Package

Item	Model No.	S124M12-3-0 (Q'ty)	S124M12-3-1 (Q'ty)
S124M12 main body	S124M12-X-A-0001	1	1
Hard carrying case	HCC-11	1	1
Battery pack	S947	1	1
Spare electrode	ELR-01	1 pair	1 pair
AC adapter	S979	1	1
AC power cord	—	1	1
Cooling tray	CTX-03	1	1
Fiber reformer (4 fiber)	FRF-01	1 pair	1 pair
Fiber reformer (8/12 fiber)	FRF-02	1 pair	1 pair
Cleaning brush	VGC-01	1	1
Electrode sharpener	D5111	1	1
Tool case	TCC-01	1	1
LCD antireflective sheet	ARS-01	1	1
Rubber foot	RBC-01	1 pair	1 pair
Quick Reference guide	FTS-B559	1	1
Instruction manual	UMC-03	1	1
Wi-Fi dongle	WFD-01	0	1

## Optional components

Item	Model No.
Soft carrying case	SCC-01
Battery Charger	S980
Angled Stand	AGS-02
Strap plate	SPL-01
Work belt	WBT-01
USB cable	USB-01
Car cigarettes cable	CDC-04

## Fiber holder

Item	Model No.
Fiber holder (0.25mm coating fiber)	S712S-250
Fiber holder (0.90mm coating fiber)	S712S-900
Fiber holder (2 fiber ribbon)	S712A-002
Fiber holder (4 fiber ribbon)	S712A-004
Fiber holder (6 fiber ribbon)	S712A-006
Fiber holder (8 fiber ribbon)	S712A-008
Fiber holder (12 fiber ribbon)	S712A-012
Fiber holder (12 fiber rollable ribbon)	S712A-12e
Fiber holder (12 fiber rollable ribbon, 200µm fiber coating)	S712A-12e-P200

## Fiber Guide V-groove

Fiber count, pitch	Model No.	
	0.25mm pitch	4 fiber
8 fiber		FGV-08-P250
12 fiber		FGV-12-P250
0.2mm pitch	12 fiber	FGV-12-P200

## Protection Sleeve

Model No.	Applicable Fiber	Length
S921	Single fiber, 0.25 - 0.9mm coating dia.	60mm
S922	Single fiber, 0.25 - 0.9mm coating dia.	40mm
S924	Single fiber and upto 8-fiber ribbon	40mm
S924F	12-fiber ribbon (Flat ribbon)	40mm
S927R	12-fiber ribbon (Rollable ribbon)	40mm

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