M7+

Ultra-portable clad alignment splicer

Clad alignment (Active V-Groove)

Light, handy and extremely fast

Bright operating light

Versatile fiber holder

4.3-inch color LCD touch screen with smart GUI

Quick response time

INNO INSTRUMENT™

EXTENDED 3 YEARS WARRANTY

Pressure heater technology:
Reducing heating time to only 9 seconds

Improved lighting:
For better visibility in dark environment

Tool-free field-replaceable electrodes:
Electrodes easy to replace

Higher energy efficiency:
Increased number of cycles, even with the same battery capacity

Versatile fiber holder:
Switch between Standard and Loose-Tube fibers

4,3 inch touch screen with smart GUI
Highest magnification: × 320
Double tap to zoom in & out

The M7+ from INNO Instrument is a cladding alignment splicer (Active V-Groove) with an ultra-portable design, and one of the most powerful fusion splicers on the market in this segment. Despite its compact size and low weight, the M7+ has virtually all the dynamic features for which INNO Instrument is renowned.

Documentation images are recorded at 320 × magnification, and the device's memory holds 10,000 images and 20,000 measured values. This allows detailed monitoring on the high-resolution 4.3 inch color LCD touchscreen. The user-friendly interface is intuitive and self-explanatory. Even in difficult lighting conditions, the integrated lighting ensures comfortable working.

A decisive added value of INNO splicers is the integration into the free View Pro Cloud Management System, which enables an entirely new level of remote management. The web-based application enables on-site staff and back-office management to optimize workflows, generate comprehensive evaluations and much more:

- Real-time tracking
- Centralized reports and data
- Optimized work and job management
- Device management for calibration monitoring etc.

Specifications

Model	M7+
Number of fibers	Single
Alignment method	Active V-Groove clad alignment
Applicable fibers	SM (ITU-T G.652 & G.657) / MM (ITU-T G.651) / DS (ITU-T G.653) / NZDS (ITU-T G.655)
Coating diameter	100 µm to 3 mm
Cleave length	5 to 16 mm
Cladding diameter	80 to 150 µm
Splice programs	Maximal 128 modes
Heating programs	Maximal 32 modes
Typical splice loss	SM: 0.03 dB / MM: 0.01 dB / DS: 0.05 dB / NZDS: 0.05 dB / G.657: 0.03 dB
Splice time (typical) *	Quick mode: 4 seconds / SM mode 5 seconds
Heating time	Quick mode: 9 seconds / Average: 13 seconds (60 mm slim)
Protection sleeve length	20 to 60 mm
Display	4.3" Color LCD display, Full Touch Screen
Fiber view	X, Y, XY, X/Y
Fiber display (magnification)	× 320
Return loss	> 60 db
Data storage	Last 20,000 (values) or 10,000 (images) results
Pull test	1.96 to 2.25 N
Operation	Keys / Touchscreen
Lighting	White LED
Power supply	AC input 100 to 240 V / DC input 9 to 19 V
Battery *	Capacity: 3,000 mAh / Typical operation cycles: 200 cycles (splicing and heating)
Electrode life span	6,000 arc discharges
Data output	Cloud (View Pro Manager) and USB-C
Dimensions in mm (Height × Width × Depth)	124 × 144 × 131
Weight	1.49 kg

* Splicing time: measured from the time of fibers entering the screen until the estimated loss is displayed. Splicing time can vary depending on calibration status.

* Battery: Measured as a one-minute splicing and heating cycle. Measured in energy-saving mode.

Environmental conditions and resilience

Operating conditions	Altitude: 0 to 5,000 m above sea level
	0 to 95 % relative humidity (non-dew)
	−10 to 50 °C / Max wind 15 m/sec
Storage conditions	0 to 95 % relative humidity (non-dew) / −40 to 80 °C
Water resistance (IPx2)	Rain resistance: 10 mm/h for 10 minutes
Shock resistance	76 cm for bottom surface drop
Dust resistance (IP5X)	Exposure to dust: 0.1 to 500 µm diameter aluminium silicate

Responsibility for damage resulting from misuse of the product is not accepted.

Water
resistance

Shock
resistance

Dust
resistance

Scope of delivery

Splicer	M7+	Electrodes	E-70
Cleaver	V1	Battery pack	LBT-3000
SOC Holder	FH-SOC-R	Power cable	ACC-25
SOC Heater cover	HTS-SOC-02	USB cable	USB-7P
AC Adapter	JS-180300	Carrying case	ICC-55
Cooling tray	CG-23	Shoulder strap	ST-01

Accessories

In addition to the splicer, various tools are required for the correct preparation of the fibers. If you are not yet equipped for this, we are of course happy to help. Whether it's a suitable stripper, a loose tube cutter, cleaning fluid and cloths or a crimping press, we can provide everything. And we're here to help and advise you. Talk to us or get an initial overview online.

The information in this catalog is subject to change without notice.

Splicing technology in the web
shop: www.kws-electronic.shop

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