

# OSC-700

## Single Fiber Fusion Splicer

### Description:

The OPTOKON OSC-700 is an automatic fusion splicer for SM, MM, DS, NZ-DS (G655), EDF and other fibers. The OSC-700 is capable of ensuring high-quality splicing even in the most unfavorable environment conditions. The OSC-700 splicers are suitable for core or cladding alignment. Using one of these methods the two cleaved fibers are automatically aligned by the fusion splicer in the X, Y plane, then are fused together. The bare fiber area is protected either by recoating or with a splice protector. A splice protector is a heat shrinkable tube with a strength member and less loss.

### Features:

- Core-Alignment PAS Technology
- World fast splicing and heating time: 7 second splicing and 13 second heating
- Newly-designed carry case: easy carry and can be as work plate
- Powerful removable battery up to 250 times of continuous splice and heat
- Top Quality electrode 5000 times life span electrode
- Compact & Light weight
- Fully Automatic Operation
- 5000 m altitude ensures Splice Quality
- SYSTEM TEST ensures the best working condition
- Color LCD monitor
- Pause function, convenient for scientific research
- Store 8000 groups of splice results
- USB & DC interface
- 350 Magnifications of X and Y



### Specifications:

Alignment	Core Alignment (PAS Technology)
Applicable fibers	SM, MM, DS, NZDS, G655, G657 and others
Fiber Diameter	Cladding Diameter: 80-150 $\mu\text{m}$ ; Coating Diameter: 100-1000 $\mu\text{m}$
Fiber Cleaver Length	8-22 mm
Splicing mode	Auto, Manual
Heating mode	User programmable
Typical Splice loss	SM 0.02 dB, G.657: 0.02 dB, MM 0.01 dB, DS/NZDS 0.04 dB
Return loss	60 dB
Tension test	2.0 N
Protection sleeve length	20-60 mm
Splicing time	7 sec.
Heating time	13 sec. typ.
Splice Memory	8 000
Operating Condition	Operating Altitude: 0-5000 m, 0-95% relative humidity, temperature -10 to +50°C, Max Wind 15 m/s
Storage condition	0-95% relative humidity, temperature -40 to +80°C
Language	Czech, English, French, German, Polish, Portuguese, Russian, Serbian, Slovenian, Spanish, Turkish, Indonesian, Vietnamese
Display	4.3" Color High Resolution Display
Fiber View & Magnification	X, Y, XY, X/Y : 350 Magnification
Interface	USB, suitable for data download and software update

Electrode Life	At least 5000 times
Battery Capacity	5200 mAh, more than 250 times of continuous splices and heats
Power Supply	Internal Li-Battery, DC adaptor
Dimension	122 (L) x 122 (W) x 130 (H) mm
Weight	2.0 kg (splicer include battery), 5.3 kg complete set

Standard package:



OSC-700 Fusion Splicer



Fiber Cleaver OCL-100<sup>1</sup>



Fiber Cleaver OCL-610<sup>2</sup>



Carry Box



Charger Adapter



Spare Electrodes



Cooling Tray



Fiber Stripper



Drop Cable Stripper

Note: 1) Fiber cleaver OCL-100 – standard accessories, more info: OSC\_02-19\_EN-OCL-100  
2) Fiber cleaver OCL-610 – optional accessories, more info: OSC\_01-24\_EN-OCL-610



