

A900 PRO Premium 6-Motor Core-Alignment Fiber Fusion Splicer with Integrated OPM and VFL KIT

Fiber Optics / Fiber Testing & Splicing Equipment

Complete KIT · New-generation high-end range · 6 motors · Built-in OPM + VFL · 8 s/18 s · 5-inch HD display · 6700 mAh



KG-FT-FS-A900-6M-PRO

Integrated optical functions

Optical power meter (OPM) and visual fault locator (VFL)

OPM range

-70 to +10 dBm

OPM wavelengths

850-1650 nm; 10 selectable bands

Key features

- Complete KIT with case, tools and accessories included according to the configuration.
- New-generation high-end range, upgraded from A80S: 6 motors, autofocus and core or cladding alignment.
- Built-in OPM from -70 to +10 dBm, with 10 bands between 850 and 1650 nm and self-calibration.
- Built-in VFL for visually locating faults and checking continuity; approximate reference range of 15 km.
- Compatible with SM, MM, DS and NZDS; automatic, semiautomatic or manual splicing, with a typical time of 8 s for SM.
- Typical heating time of 18 s; adjustable time and temperature, automatic/manual modes and 20-60 mm sleeves.
- 5-inch HD capacitive touchscreen, touch and button controls, 180° reversible display and 300x X/Y magnification.
- Spanish interface, 1000 records and USB for data export, function updates and power supply.
- Removable 6700 mAh battery, typical runtime of 200 cycles and LED lighting.
- Multifunction case with drawer, cleaving table and detachable stool; includes SOC adapter, tools and consumables.

Technical specifications

Parameter	Specification
KONGIA model	A900-6M-PRO

Technical specifications

Parameter	Specification
Integrated optical functions	Optical power meter (OPM) and visual fault locator (VFL)
OPM range	-70 to +10 dBm
OPM wavelengths	850-1650 nm; 10 selectable bands
OPM calibration	Optical power self-calibration
VFL reference range	Approx. 15 km; depends on fiber, losses and conditions of use
Equipment type	Single-fiber electric arc fusion splicer
Focusing system	Autofocus using 6 motors
Alignment methods	Core and cladding
Splicing modes	Automatic, semiautomatic and manual
Compatible fibers	SM (G.652/G.657), MM (G.651), DS (G.653), NZDS (G.655)
Fiber programs	Preset types and custom type configuration
Glass fiber diameter	80-150 µm
Coating diameter	100-1000 µm
Typical SM splice loss	0.02 dB
Typical MM splice loss	0.01 dB
Typical DS / NZDS loss	0.04 dB
Typical splicing time	8 s for SM
Tensile test	1.96-2.1 N
Screen	5-inch HD capacitive touchscreen
Controls	Physical buttons and touchscreen
Display orientation	Content reverses 180° for operation from both sides
Magnification	300x on the X / Y axes
Splice display	Estimated loss, cleave angle and fiber image
Splice memory	1000 records
Interface	Graphical GUI
Languages	10: Spanish, English, Chinese, French, Russian, Italian, Portuguese, Thai, Polish and Arabic

Technical specifications

Parameter	Specification
Typical heating time	18 s
Heating modes	Automatic and manual
Heater adjustment	Configurable time and temperature
Heat-shrink sleeves	20-60 mm
Fiber clamping	Bare fiber, pigtail and drop cable
SOC adapter	Included for compatible connectors
Cooling	Cooling tray included
Electrode life	Approx. 3000 splices, depending on use and maintenance
Illumination	LED
USB	Data export, function updates and power output
Charging time	Approx. 3.5 h
Adapter input	100-240 V AC, 50/60 Hz
Adapter output	13.5 V DC / 4.81 A
Operating temperature	-15 to +50 °C
Operating humidity	Up to 90% RH, non-condensing
Operating altitude	0-5000 m
Storage temperature	-40 to +50 °C
Storage humidity	0-95% RH
Battery	Removable lithium, 6700 mAh
Charge indicator	Battery level indicator
Typical runtime	Approx. 200 splicing and heating cycles, depending on conditions
Equipment dimensions	137 x 160 x 145 mm (length x width x height)
Specified battery voltage	11.8 V DC, according to the technical table
Weight with battery	Approx. 1.90 kg
Weight without battery	Approx. 1.51 kg
Pack size	Complete KIT with case, tools and accessories

Technical specifications

Parameter	Specification
Case dimensions	Approx. 30 x 22 x 34 cm
Kit weight with case	Approx. 5.60 kg, including equipment and accessories
Reference packaging dimensions	Approx. 34.5 x 24 x 33 cm
Reference packaged weight	Approx. 6.15 kg, according to the illustrated configuration
Detachable stool	Stated capacity of 150 kg
Reference conditions	Typical values; may vary with fiber, preparation, program and configuration
Warranty	2 years

Applications

FTTH and FTTx Installations

Fiber preparation, alignment, splicing and protection in access networks.

Field Maintenance and Diagnostics

OPM for measuring optical power and VFL for identifying visible faults and continuity.

Campus, Building and Optical Link Networks

Working with SM, MM, DS and NZDS fibers using appropriate programs.

SOC Connector Termination

Cleaving, splicing and protecting connectors compatible with the included adapter.

Packaging & contents

KONGIA A900 PRO splicer with OPM, VFL and 6700 mAh battery Multifunction hard case, accessory drawer, cleaver table and detachable stool Precision fiber cleaver and protective case 7-in-1 fiber stripper and cleaning clamp A pair of spare electrodes; hand strap and shoulder strap Power adapter and cable; select plug according to destination Empty alcohol bottle, 10 cotton pads, brush, air blower and tweezers SOC adapter and cooling tray 100 fiber heat-shrink sleeves and 50 drop cable sleeves 10 fiber protection boxes Equipment manual and documentation

Warranty

KONGIA 2-year warranty.