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Orionics FW312 Automatic Fusion Splicer



FW312 fusion splicer

The FW312 in one word is EASY. It is designed to make the most accurate splice possible. It comes factory-programmed with six of the most common splice profiles and storage space for fourteen additional. A crisp 45 x magnification view with 25 micron markers makes the fibers clearly visible before, during, and after the splice. The FW312 displays instant results to the installer after the splice... the job is done and done right the first time. Since the FW312 is fully programmable, splicing is at last "one button easy." That's what Aurora calls performance.

FW312 Specifications

Parameter	Value
Fiber Diameter	75 μ m to 200 μ m glass cladding diameter
Buffer	All buffers and colors up to 900 μ m
Fiber Viewing	Rear projection screen with 45X magnification, calibrated 25 micron markers and fiber alignment pointers
Fiber Alignment	0.05 μ m position resolution, ruggedized piezo positioners with overtravel protection; three axis capability, alignment axes have 125 μ m travel; feed axis has 75 μ m
LID System	Core-to-core 3-axis alignment and highly accurate splice loss estimation automatically displayed, average single mode splice loss 0.016 dB
Fully Programmable	One key operation for predefined programs, including prefuse, fuse, fiber gapping and fiber annealing
Splice Estimation Loss	Splicer estimates extrinsic splice loss within 0.02 dB
Manual Operation	Totally manual using positioner keys and built-in thruput power meter system
Power	AC input: auto-ranging 100-130V, 220-240V, 60VA at 50/60Hz. DC input: 10-16V, 30W
Battery	Internal NiCad battery, 5 hrs. continuous field operation; recharge battery fully in 8 hrs., 5.7 Amp-hour
Size	13.72" x 12" x 9.75" / 35 cm x 30.5 cm x 25 cm
Weight Unit	28 lb/12.7 kg
Shipping Unit	36 lb/16.3 kg
Ambient Conditions	-4 to 140 F (-20 to +60 C), humidity 0-100% RH non-condensing

FW312 Durability

The FW312 is tough and reliable, with the ability to work in adverse conditions, like humidity and extreme temperatures. It also has multiple choices for power, including a standard built-in NiCad battery. Inside a solid sealed case is a highly durable, microprocessor controlled, LID fusion splicer that has been proven versatile under the widest variety of fiber and splicing conditions. A transit case completes the package. Aurora makes reliable equipment and packs it for tough jobs.

FW312 Packaging

Take off into the field with one hand free. A look at the picture will show how compact and self-contained the FW312 is with tools and accessories. The case is sealed against moisture, the top is removable, the cleaver pivots to make it easy to work and simple to store, and the fiber can be loaded into position in just seconds even after a long day under the most miserable conditions. We have considered where and when the installer must take our splicer and made it the product of choice for people who know.