

## PHENIX FO, FX-101 FIBER OPTIC CLEAVER



### **It's time for a new technology in fiber cleaving.**

The time has come to move beyond mechanical cleavers into a new dimension, where design is driven by a thorough analysis of all factors that affect the cleave quality. It's time for a revolutionary microprocessor based instrument with sensor feedback that controls all variables such as fiber tension, diamond oscillator parameters and cleaving sequence. A design that eliminates high rates of throw-away cleaves, and compromised splices. A design that's flexible and adapts to your special cleaving needs. The FX-101 right angle cleaver is easy to use, rugged, compact, battery powered and ready for the lab or the field.



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## FEATURES AND BENEFITS OF THE FX-101

### **Total Microprocessor Control**

Control of all variables to produce precise, consistent and dependable cleaves.

### **USB connectivity**

Laptop can be used to change cleaver parameters and readout cleaver data.

### **<0.2° Degree Average Cleave Angle**

Essential for consistent, low-loss splices.

### **Unique Diamond Scoring Mechanism\***

Produces a near invisible score mark for better cleaves and splices.

### **Ergonomically Designed**

Sized for the human hand, intuitive, easy to use.

### **Multiple Fiber Inserts**

Adapts to a wide range of fiber sizes, ferrules and holders.

### **Wide Fiber Clamps**

Preserves the integrity of the fiber without crushing.

### **Monolithic Construction\***

Rugged dependability with small footprint for portability.

### **Transparent Fiber Clamp with Length Scale\***

Cleaved fiber calibrated length setting.

### **Protective Cover**

Tough, transparent cover protects the entire instrument.

### **Battery Powered**

Portable for field or lab use.

## SPECIFICATIONS

### **Fiber Type**

SM, MM and PM and others

### **Cladding/Coating Diameter**

80 to 200 µm/150 to 900 µm

### **Fiber Inserts**

125/245, 125/400 and 125/900 µm,  
other size inserts available

### **Fiber Holder, Ferrule adapters**

Fiber holder and ferrule adapters are available.

### **Cleave Length**

Calibrated scale; 6 to 30 mm,  
Uncalibrated; 0.02 to <6 mm

### **Diamond Lifetime**

220,000 cleaves, >440 diamond positions,  
>500 cleaves per position

### **Cleaves per Battery Charge**

400 cleaves

### **Controls**

Power on and cleave cycle actuation button.

### **Cleaver Status LED**

Standby, cleaving and error mode indications.

### **Battery Status LED**

Charged, discharged and charging indications.

### **Power Input**

Battery powered,  
100-240 Vac, 50-60Hz input

### **Weight**

2 lbs, 0.9 kg

### **Dimensions, with cover installed**

4¼x5¾x3 in., 110x148x76 mm, HxWxD.

\*Patent pending features

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