

Features

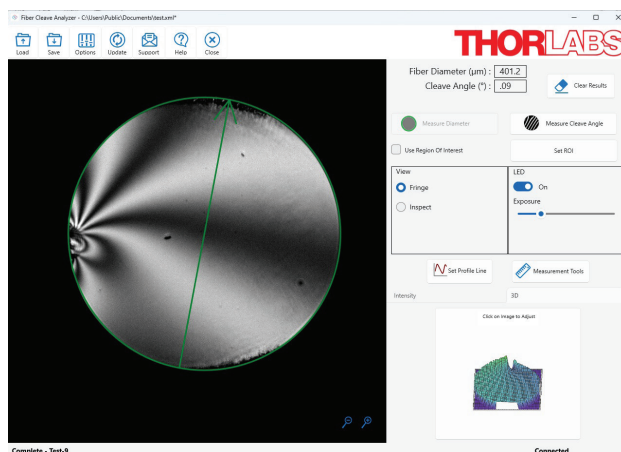
- ◆ Automatic Measurement of Fiber Cleave Angle
- ◆ Visual Inspection of End Face Surface
- ◆ Accepts Transfer Inserts Compatible with Thorlabs' LDC401 Series and LDC450B Fiber Cleavers
- ◆ Supports External Vacuum Pump to Aid in Positioning Small Fibers
- ◆ Renders 3D Reconstruction of Fiber End Face

Thorlabs' Fiber Cleave Analyzer is intended to be used to visually inspect a cleaved fiber's end face and to perform automatic measurements of the fiber's diameter and cleave angle. The Fiber Cleave Analyzer can accept fibers with cladding diameters that range from 80 μm to 750 μm and is compatible with the transfer inserts used with Thorlabs' LDC401 Series and LDC450B Fiber Cleavers. It can be used alongside fiber cleavers to aid in the setup of cleave parameters and to verify the performance of the cleaver.

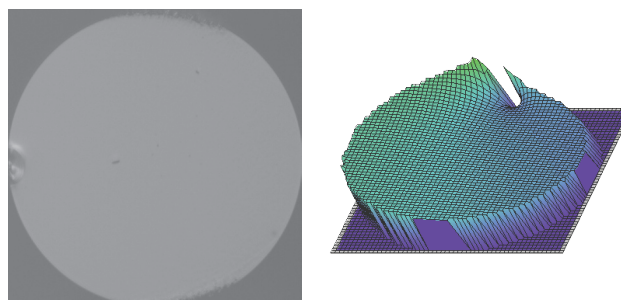
The high resolution, high contrast image can be used to visually inspect the end face of the fiber to detect scribe mark, hackle, dust, or other defects. Measurement tools are available to assist in quantifying the size of the scribe mark or other fiber features such as stress rods. The interference pattern is used to automatically measure the cleave angle and to calculate a high-resolution 3D representation of the end face surface. An alignment tool is provided to verify the alignment of the internal optics.



FCA750
Fiber Cleave Analyzer



Interferometric Image of a Cleaved Fiber



Close-Up Image and 3D Reconstruction of a Fiber End Face

Specifications

Accepted Fiber Cladding Diameters	80 – 750 μm
Image Sensor	1/1.8" CMOS, 8 bit, 8.3 MP
Resolution	0.4 μm
Internal LED Wavelength	610 nm
Field of View	1440 μm \times 810 μm
Cleave Angle Range	0° – 2°
Cleave Angle Resolution	0.1°
Dimensions (W \times H \times D)	6.15" \times 6.79" \times 14.66" (156.2 mm \times 172.5 mm \times 372.4 mm)
Weight	13.1 lbs (6 kg)
Computer Interface	USB-C