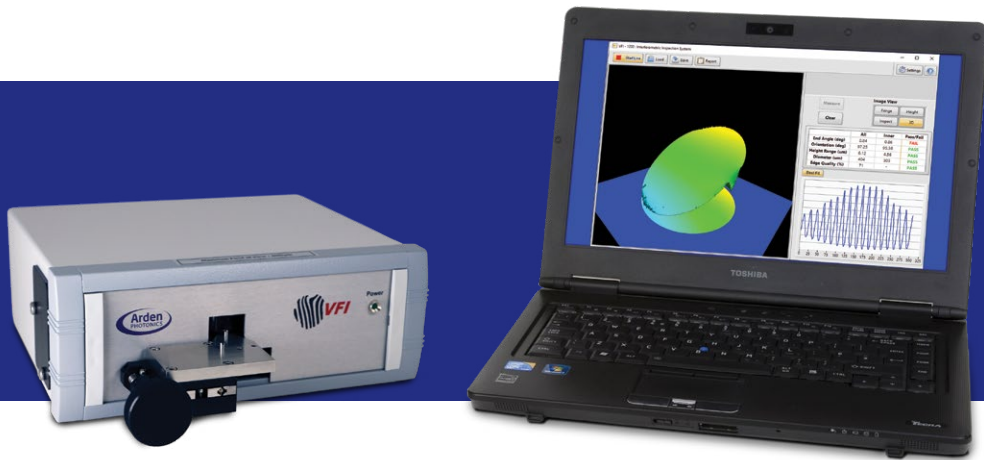




# VFI

## Interferometric Inspection System



The VFI is an interferometric inspection system specifically designed for checking the surface quality and flatness of your cleaved or polished fibers. Users can view their fibers in a range of different views, both in 2D and 3D, allowing the user to get a full understanding of their cleaving or polishing process.

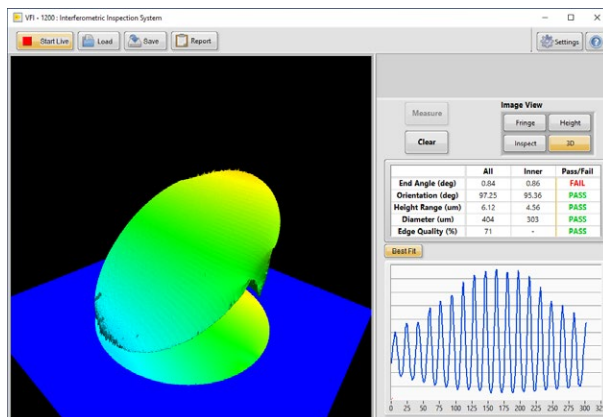
The VFI interferometer has proven itself in Research, Production and QA over and over and the feedback we get from users indicates that they value these features:

### Features & Benefits

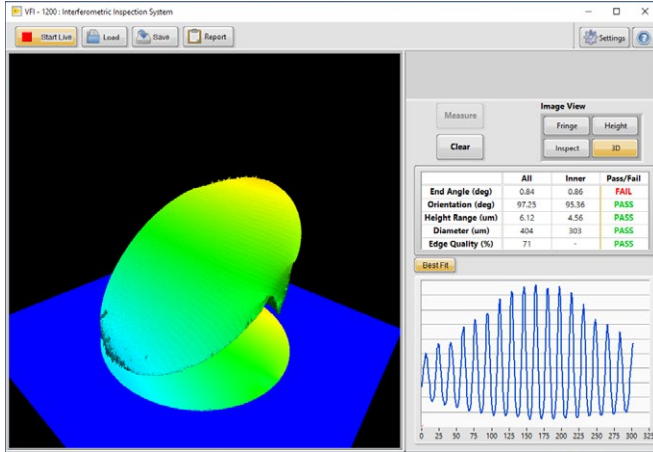
- 3 different Fields of View
- Flat and angled cleaves
- Inspect and fringe mode
- Automated or manual end angle measurement
- 2D or 3D measurement mode
- 3D end face height map
- 2D measurement – real time; 3D measurement in under 7 seconds
- Height data can be saved as a csv file
- Data output as Excel or HTML reports

### Applications

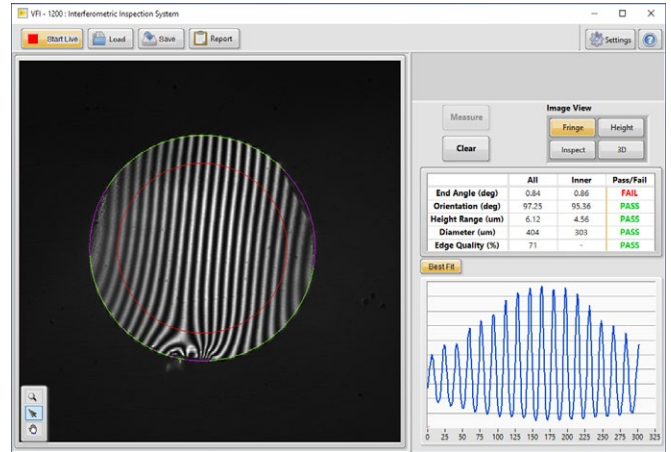
- Precision cleaver manufacture
- Cleaver maintenance
- Laser manufacture
- Medical device manufacture
- Fiber R&D
- Specialty fiber manufacture
- Development and testing of angled cleavers
- Device pig-tailing
- LDF cleaver manufacture/maintenance
- Fiber end cap manufacture
- Multifiber bundle manufacture



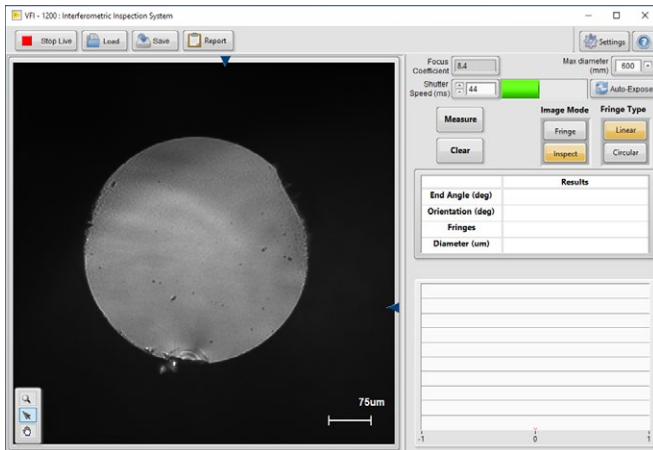
3D MAP



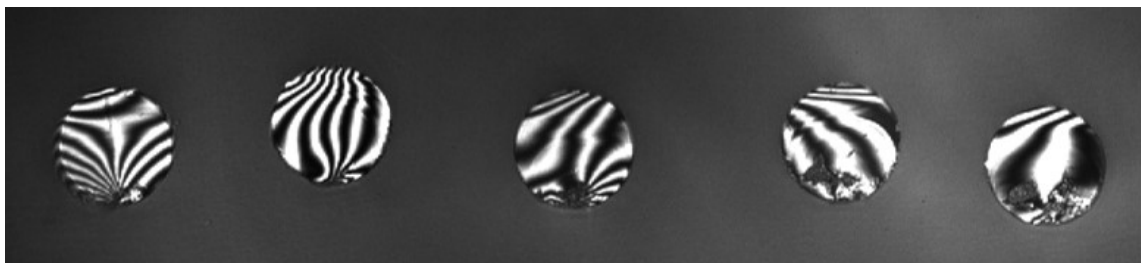
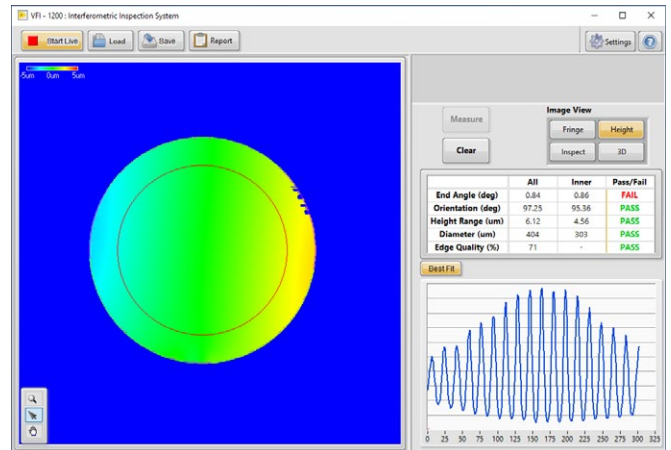
FRINGE VIEW



INSPECT VIEW



HEIGHT MAP



### Ribbon Fiber

The VFI can also be factory-fitted with an optional "ribbon stage". The ribbon stage is a laterally adjustable stage designed for the quick and efficient imaging of ribbon fibers.



# VFI

# Interferometric Inspection System

## Technical Specifications

Optical	VFI-200	VFI-1200	VFI-2000
<b>Field of View</b>	200 µm	1200 µm maximum with x1.5, x2, x3 and x6 digital zoom	2000 µm maximum with x1.5, x2, x3 and x6 digital zoom
<b>Image sensor</b>	1/1.8 inch CMOS array, 12-bit, 6.4 MP	1/1.8 inch CMOS array, 12-bit, 6.4 MP	1/1.8 inch CMOS array, 12-bit, 6.4 MP
<b>Camera sensor size</b>	3088 x 2076 px, 2.4 µm square pixels	3088 x 2076 px, 2.4 µm square pixels	3088 x 2076 px, 2.4 µm square pixels
<b>LED wavelength</b>	525 nm	525 nm	525 nm

Measurement Capabilities	VFI-200	VFI-1200	VFI-2000
<b>Maximum measurable cleave angle (without using angled fiber holder)*</b>	2D mode: 8° 3D mode: 4°	2D mode: 8° 3D mode: 4°	2D mode: 8° 3D mode: 4°
<b>Measurement time</b>	2D mode: real-time 3D mode: < 7 s	2D mode: real-time 3D mode: < 7 s	2D mode: real-time 3D mode: < 7 s
<b>Image Quality</b>	Fully resolves USAF Target to Level 7 minimum	Fully resolves USAF Target to Level 7 minimum	Fully resolves USAF Target to Level 7 minimum
<b>Height Resolution</b>	0.01 µm	0.01 µm	0.01 µm

Physical	VFI-200	VFI-1200	VFI-2000
<b>Dimensions</b>	240(W) x 240(D) x 90(H) mm	240(W) x 240(D) x 90(H) mm	240(W) x 240(D) x 90(H) mm
<b>Weight</b>	3 kg	3 kg	3 kg
<b>Connection to computer</b>	USB 3.0 (USB Type B to USB A; 1 m cable supplied)	USB 3.0 (USB Type B to USB A; 1 m cable supplied)	USB 3.0 (USB Type B to USB A; 1 m cable supplied)
<b>Power supply</b>	Via USB	Via USB	Via USB
<b>Operating systems support</b>	Windows 7/8/10 64bit	Windows 7/8/10 64bit	Windows 7/8/10 64bit
<b>Computer requirements</b>	4 GB RAM; USB 3.0 port; 64bit	4 GB RAM; USB 3.0 port; 64bit	4 GB RAM; USB 3.0 port; 64bit
<b>Operating temperature</b>	10 – 30°C	10 – 30°C	10 – 30°C

\* Maximum angle is stated for a fiber with 125 µm cladding diameter. Larger cleave angle can be measured using an angled fiber holder.

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