VFI
Interferometric Inspection System

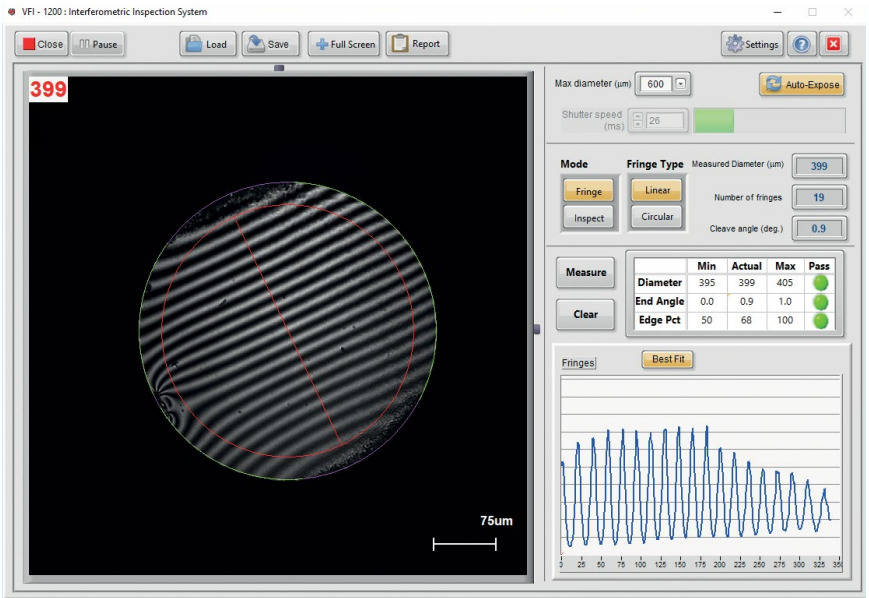
The VFI is an interferometric inspection system specifically designed for checking the surface quality and flatness of your cleaved or polished fibers. The VFI interferometer has proved itself in Research, Production and QA over and over and the feedback we get from users indicates that they value these features:

Features & Benefits

- 3 different fields of view depending on your application
- Flat and angled cleaves
- Arden and Fujikura/AFL holders
- Inspect and Fringe modes
- Automatic measurement feature
- User calibration facility
- Superb image quality
- End angle/radius of curvature estimation

Applications

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



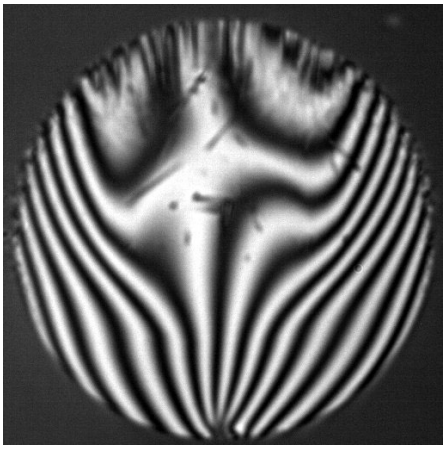
Manufactured by Arden Photonics Ltd

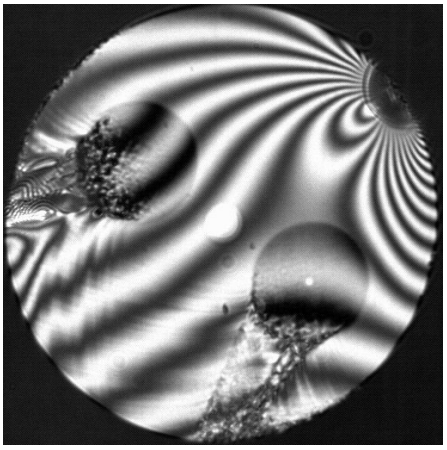
Arden Photonics Ltd,
Royston House, 267 Cranmore Boulevard,
Shirley, Solihull, B90 4QT, UK
+44 (0)121 733 7721

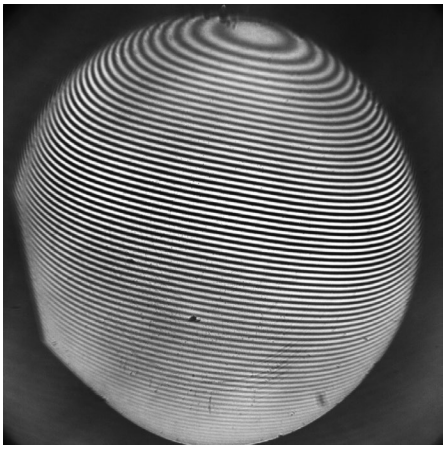
Arden Photonics, LLC,
4500 140th Avenue North, Suite 101,
Clearwater, FL 33762, USA
+1 (727)478-2651

www.ardenphotonics.com
enquiries@ardenphotonics.com

VFI
Interferometric Inspection System







Technical Specifications

	VFI-200	VFI-1200	VFI-2000
Field of View	200µm	1200µm maximum with x1.5, x2, x3 and x6 digital zoom	2000µm maximum with x1.5, x2, x3 and x6 digital zoom
Dimensions	240mm (W) x 240mm (D) x 90mm (H)	240mm (W) x 240mm (D) x 90mm (H)	240mm (W) x 240mm (D) x 90mm (H)
Weight	2.0Kg	2.0Kg	2.0Kg
Image Sensor	1/1.8 inch CMOS array, 12-bit, 6.4MP	1/1.8 inch CMOS array, 12-bit, 6.4MP	1/1.8 inch CMOS array, 12-bit, 6.4MP
Power Supply	12v in-line power supply	12v in-line power supply	12v in-line power supply
Resolution	2076 x 2076, 2.4µm square pixels	2076 x 2076, 2.4µm square pixels	2076 x 2076, 2.4µm square pixels
Fringe resolving power	2µm/fringe	2µm/fringe	2µm/fringe
Maximum frame rate	>20fps	>20fps	>20fps
LED wavelength	587nm	587nm	587nm
Accuracy up to 2°	<0.1°	<0.1°	<0.1°
Accuracy up to 10°	<0.5°	<0.5°	<0.5°
Connection to computer	USB 3.0 (USB Type C to USB A: 1m cable supplied)	USB 3.0 (USB Type C to USB A: 1m cable supplied)	USB 3.0 (USB Type C to USB A: 1m cable supplied)
Operating temperature	0° to +50°C	0° to +50°C	0° to +50°C
Humidity	5%-95%, relative, non-condensing	5%-95%, relative, non-condensing	5%-95%, relative, non-condensing
Operating systems support	Windows 7/8/10 64bit	Windows 7/8/10 64bit	Windows 7/8/10 64bit
Computer requirements	2GB RAM; USB 3.0 port; 64bit	2GB RAM; USB 3.0 port; 64bit	2GB RAM; USB 3.0 port; 64bit

Manufactured by Arden Photonics Ltd

Arden Photonics Ltd,
Royston House, 267 Cranmore Boulevard,
Shirley, Solihull, B90 4QT, UK
+44 (0)121 733 7721

Arden Photonics, LLC,
4500 140th Avenue North, Suite 101,
Clearwater, FL 33762, USA
+1 (727)478-2651

www.ardenphotonics.com
enquiries@ardenphotonics.com

VFI
Interferometric Inspection System

Ordering Information

Part Number	Description
VFI-200	Interferometric inspection system for fibers with diameters of 125µm. Includes VFI-200 optical unit; VF-H0 fiber holder for 125µm fibers; PC software; USB cable; power supply. Computer not included.
VFI-1200	Interferometric inspection system for fibers with diameters from 125 to 1200µm. Includes VFI-1200 optical unit; VF-H0/0400 fiber holder for 400µm fibers; VFI-FTK400 fiber samples; PC software; USB cable; power supply. Computer not included.
VFI-2000	Interferometric inspection system for fibers with diameters from 400 to 2000µm. Includes VFI-2000 optical unit; VF-H0/0400 fiber holder for 400µm fibers; VFI-FTK400 fiber samples; PC software; USB cable; power supply. Computer not included.

Holders	Description
VFI-H0	Arden VFI fiber holder for 125µm fiber, perpendicular cleave
VFI-H0-200	Arden VFI fiber holder for 200µm fiber, perpendicular cleave
VFI-H0-400	Arden VFI fiber holder for 400µm fiber, perpendicular cleave
VFI-H0-600	Arden VFI fiber holder for 600µm fiber, perpendicular cleave
VFI-H0-800	Arden VFI fiber holder for 800µm fiber, perpendicular cleave
VFI-H0-1000	Arden VFI fiber holder for 1000µm fiber, perpendicular cleave
VFI-H0-1250	Arden VFI fiber holder for 1250µm fiber, perpendicular cleave
VFI-H0-1500	Arden VFI fiber holder for 1500µm fiber, perpendicular cleave
VFI-H0-2000	Arden VFI fiber holder for 2000µm fiber, perpendicular cleave
VFI-H0-1250F	Arden VFI fiber holder for 1.25mm ferrules
VFI-H0-2500F	Arden VFI fiber holder for 2.5mm ferrules
VFI-H0-3200F	Arden VFI fiber holder for 3.2mm ferrules
VFI-H-Angle	VFI angle inducing anulus for measuring cleave angles from 4° – 12°

Adapters	Description
VF-MPS	VFI mounting plate for standard Arden Photonics VFI holders
VF-MPF	VFI mounting plate for 125µm Fujikura style fiber holders (also works with FGC holders)
VF-MPFL	VFI mounting plate for 200µm+ Fujikura style fiber holders (also works with FGC holders)

Other Options	Description
VF-CC-01	Rigid carrying case for VFI-2000, VFI-1200 or VFI-200
VFI-UEW2	VFI extended warranty covering parts and labour for 2 years from purchase, return to base. Cover excludes camera.
VFI-UEW3	VFI extended warranty covering parts and labour for 3 years from purchase, return to base. Cover excludes camera.
VFI-UEW4	VFI extended warranty covering parts and labour for 4 years from purchase, return to base. Cover excludes camera.
VFI-UEW5	VFI extended warranty covering parts and labour for 5 years from purchase, return to base. Cover excludes camera.
VFI-FTK400	VFI fiber samples, 400µm diameter, for checking VFI-1200 alignment and calibration.

For North American sales enquiries call **(727) 478-2651** or email us on **sales@ardenphotonics.com**

For Rest of World sales enquiries call **+44 (0)121 733 7721** or email us on **sales@ardenphotonics.com**

Iss 31 Jan 18

Manufactured by Arden Photonics Ltd

Arden Photonics Ltd,
Royston House, 267 Cranmore Boulevard,
Shirley, Solihull, B90 4QT, UK
+44 (0)121 733 7721

Arden Photonics, LLC,
4500 140th Avenue North, Suite 101,
Clearwater, FL 33762, USA
+1 (727)478-2651

www.ardenphotonics.com
enquiries@ardenphotonics.com