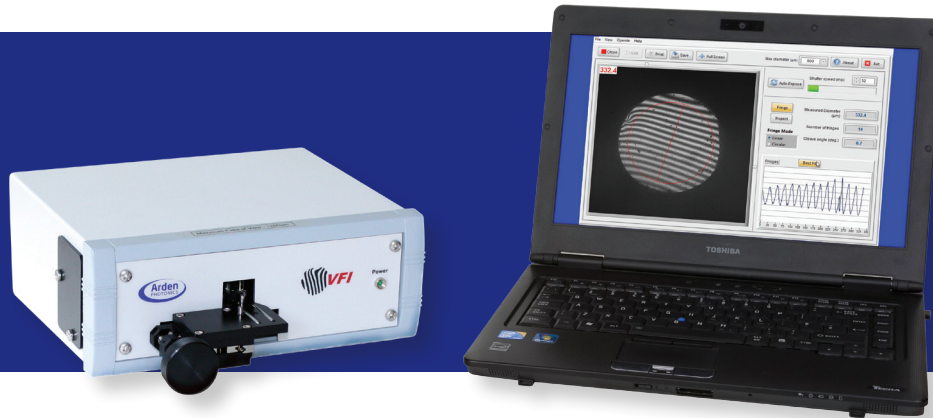




VFI

Interferometric Inspection System



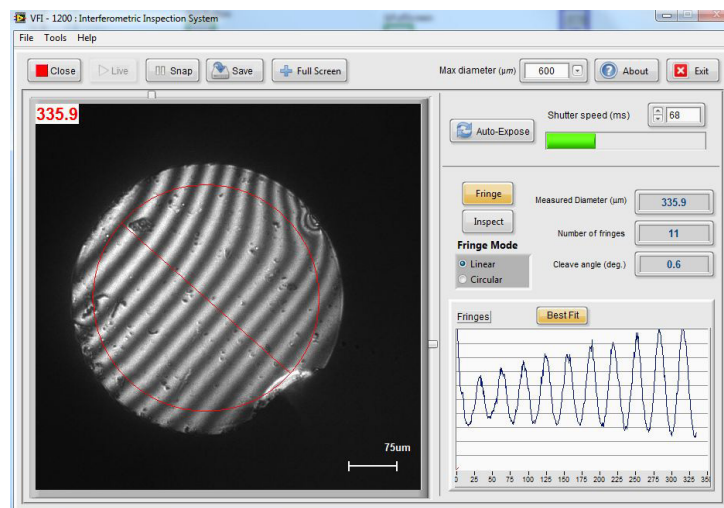
The VFI is an interferometric inspection system specifically designed for checking the surface quality and flatness of your cleaved or polished fibers. The VFI interferometer has proved itself in Research, Production and QA over and over and the feedback we get from users indicates that they value these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

Features & Benefits

- 3 different fields, depending on the application
- Arden, Vytran, Fujikura/AFL, Furukawa/FITEL, and PK holders
- End angle/radius of curvature estimation
- Inspect and Fringe modes
- Flat and angled ends
- User calibration facility

Applications

- Precision cleaver manufacture
- Cleaver maintenance
- Laser manufacture
- Medical device manufacturing
- Fiber R&D
- Development and testing of angled cleaves and cleavers
- Device pigtailling
- LDF cleaver manufacture/maintenance
- Fiber ribbon inspection
- Fiber end cap manufacture



Manufactured by
Arden Photonics Ltd

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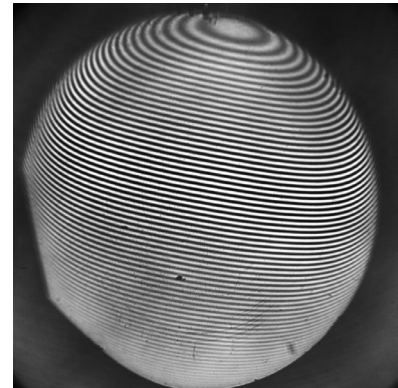
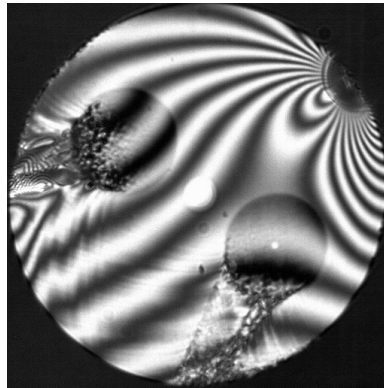
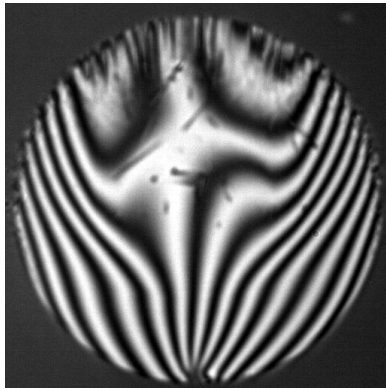
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VFI

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	½ inch CMOS array, 8 bit, 1MP	½ inch CMOS array, 8 bit, 5MP	½ inch CMOS array, 8 bit, 5MP
Power Supply	12v in-line power supply	12v in-line power supply	12v in-line power supply
Resolution	1024 x 1024, 5.2µm pixels	1920 x 1920, 2.2µm square pixels	1920 x 1920, 2.2µm square pixels
Fringe resolving power	2µm/fringe	2µm/fringe	2µm/fringe
Maximum frame rate	25 fps	6.3 fps	6.3 fps
LED wavelength	587nm	587nm	587nm
Accuracy up to 2°	<0.1°	<0.1°	<0.1°
Accuracy up to 10°	<0.2°	<0.2°	<0.2°
Connection to computer	USB 2.0 (USB B to USB A: 2m cable supplied)	USB 2.0 (USB B to USB A: 2m cable supplied)	USB 2.0 (USB B to USB A: 2m 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 32bit or 64bit	Windows 7/8/10 32bit or 64bit	Windows 7/8/10 32bit or 64bit
Computer requirements	2GB RAM; USB 2.0 port – <i>NOTE system may not work work USB 3</i>	2GB RAM; USB 2.0 port – <i>NOTE system may not work work USB 3</i>	2GB RAM; USB 2.0 port – <i>NOTE system may not work work USB 3</i>

The VFI can be ordered with factory fitted extras to more fully meet the particular specification that you require. For example, the standard fiber handling stage can be replaced with a laterally adjustable stage designed for quickly and efficiently imaging ribbon structures. Please note the software does not widen the field of view, it simply allows the sample to be moved across the standard VFI field of view laterally.



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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
VF-H0	Arden fiber holder for 125µm fiber, perpendicular cleave
VF-H0-200	Arden fiber holder for 200µm fiber, perpendicular cleave
VF-H0-400	Arden fiber holder for 400µm fiber, perpendicular cleave
VF-H0-600	Arden fiber holder for 600µm fiber, perpendicular cleave
VF-H0-800	Arden fiber holder for 800µm fiber, perpendicular cleave
VF-H0-1000	Arden fiber holder for 1000µm fiber, perpendicular cleave
VF-H0-2000	Arden fiber holder for 2000µm fiber, perpendicular cleave
VF-H0-2500	Arden fiber holder for 2500µm fiber, perpendicular cleave
VF-H0-2.5FER	Arden fiber holder for 2.5mm ferrules
VF-H6	Arden angled fiber holder for 125µm fiber, fiber tilted at 6 degrees
VF-H8	Arden angled fiber holder for 125µm fiber, fiber tilted at 8 degrees
VF-H10	Arden angled fiber holder for 125µm fiber, fiber tilted at 10 degrees
VF-H12	Arden angled fiber holder for 125µm fiber, fiber tilted at 12 degrees

Factory Fitted Options	Description
VF-RS	VFI front stage with lateral adjuster designed for ribbon structure inspection (factory fitted to VFI)
VF-MPF	VFI mounting plate for Fujikura style fiber holders (factory fitted to VFI)
VF-MPFT	VFI mounting plate for FITEK/Furukawa style fiber holders (factory fitted to VFI)
VF-MPPK	VFI mounting plate for Photon Kinetics style fiber holders (factory fitted to VFI)
VF-MPV	VFI mounting plate for Vytran style fiber holders (factory fitted to VFI)

Other Options	Description
VFI-CC-01	Rigid carrying case for VFI
VFI-UEW3	VFI extended warranty covering parts and labour for 3 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
APL-LC	Laptop computer, pre-installed with application software
APL-DC	Desktop computer, pre-installed with application software

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

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