

VFI Interferometric Inspection System



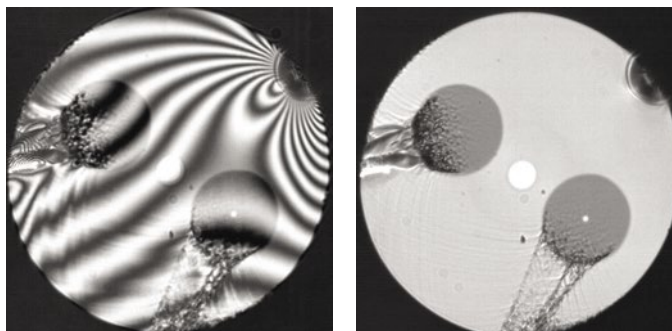
The VFI is an interferometric inspection system specifically designed for checking the surface quality and flatness of your cleaved or polished fibers. The VFI interferometer has proved itself in Research, Production and QA over and over and the feedback we get from users indicates that they value these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

Features & Benefits

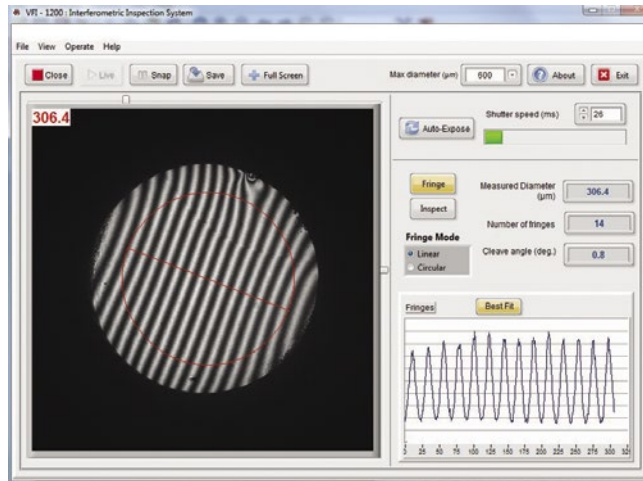
- Accepts 125 to 1200 μ m fiber diameters
- 5Mpixel camera gives x6 digital zoom
- Arden, Vytran, Fujikura/AFL, Furukawa/FITEL, and PK holders
- End angle/radius of curvature estimation
- Inspect and Fringe modes
- Flat and angled ends
- User calibration facility

Applications

- Precision cleaver manufacture
- Cleaver maintenance
- Laser manufacture
- Medical device manufacturing
- Fiber R&D
- Development and testing of angled cleaves and cleavers
- Device pigtailling



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Technical Specification

	VFI-1200	VFI-200
Field of View	1200μm maximum with x1.5, x2, x3 and x6 digital zoom	200μm
Dimensions	240mm (W) x 240mm (D) x 90mm (H)	240mm (W) x 240mm (D) x 90mm (H)
Weight	2.0Kg	2.0Kg
Power Supply	12v in-line power supply	12v in-line power supply
Resolution	Maximum Resolution 1920 x 1920 pixels	1280 x 1024 pixels
Image Format	8bit JPG	8bit JPG
Accuracy	< 0.1°	< 0.1°
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)

Environmental

Operating Temperature	0° – +50°C	0° – +50°C
Humidity	5%-95%, relative, non-condensing	5%-95%, relative, non-condensing

Computer Requirements

Operating systems support	Windows 7, 32bit or 64bit; Windows 8, 32bit or 64bit
Computer requirements (minimum specification)	2GB RAM ; USB 2.0 port - NOTE system may not work with USB 3

VFI

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Ordering Information

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

Options	Description
VF-H0	Arden fiber holder for 125 μ m fiber, perpendicular cleave
VF-H0-200	Arden fiber holder for 200 μ m fiber, perpendicular cleave
VF-H0-400	Arden fiber holder for 400 μ m fiber, perpendicular cleave
VF-H0-600	Arden fiber holder for 600 μ m fiber, perpendicular cleave
VF-H0-800	Arden fiber holder for 800 μ m fiber, perpendicular cleave
VF-H0-1000	Arden fiber holder for 1000 μ m fiber, perpendicular cleave
VF-H6	Arden angled fiber holder for 125 μ m fiber, fiber tilted at 6 degrees
VF-H8	Arden angled fiber holder for 125 μ m fiber, fiber tilted at 8 degrees
VF-H10	Arden angled fiber holder for 125 μ m fiber, fiber tilted at 10 degrees
VF-H12	Arden angled fiber holder for 125 μ m fiber, fiber tilted at 12 degrees
VF-MPF	VFI mounting plate for Fujikura style fiber holders (factory fitted to VFI-1200)
VF-MPPK	VFI mounting plate for Photon Kinetics style fiber holders (factory fitted to VFI-1200)
VF-MPV	VFI mounting plate for Vytran style fiber holders (factory fitted to VFI-1200)
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, 400 μ m 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

Iss 27 Jun 15