

INTERFEROMETRY

DAFFI SF



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Digital Automated Fiber & Ferrule Interferometer for Single Fiber connectors

The latest interferometer from Data-Pixel is a **cost effective solution** for high volumes production, without compromising on accuracy or performance.

Based on our extensive interferometer manufacturing experience we designed the DAFFI SF to be **robust, fast and accurate** in order to meet all manufacturing or laboratory environments.

With the Blink software platform, DAFFI is able to measure the end face geometry on single fiber connectors in a very short time.

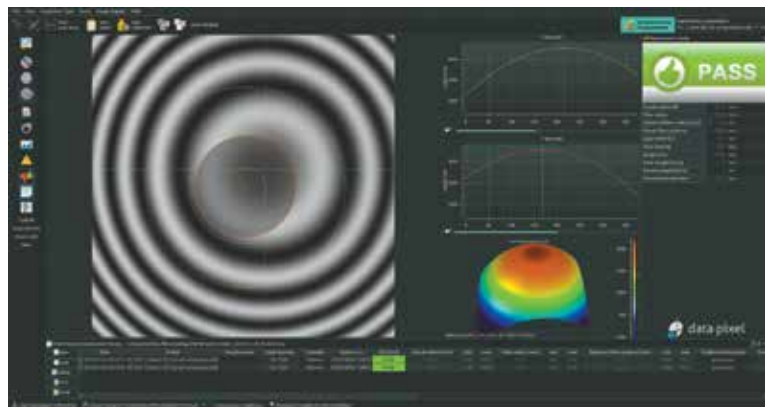
The Daffi interferometer accessories (flanges and adapters) are fully compatible with the Daisi range, allowing the user to limit the costs of the 3D geometry measurement units.

SPECIFICATIONS :

Field of view (mm) :	1.1 x 0.9
Scan mode :	Red light
Radius (mm) :	3 to flat
Apex Offset (μm) :	0 to 500
Fiber Height (nm) :	± 160
Fiber cleave angle (degrees) :	0 to 12
Measurement speed (sec.) :	1
Magnification :	X 300
Outputs :	USB 2.0 + USB 3.0
Power source :	External 12V
Dimensions H x W x L (mm) :	133 x 171 x 244
Weight (kg) :	6

KEY FEATURES :

- Measurement of PC and APC connectors, ferrules and bare fibers
- True phase-shifting interferometer
- Non-contact measurement
- Smart autofocus, focus only when required
- Servo-controlled reference mirror for automatic Apex calibration
- Vibration insensitive
- Easy and fast switching from PC to APC, no change of fiber holder required
- Compliance with Industry Standards for Interferometer Measurements
- Intuitive BLINK software, with data-base connectivity
- Compatible with desktop PC, laptop, tablet PC



Device: Daffi SF serial: 4103160836-2006060001		Profile: PC Type: PC-1.25mm-IEC.sfd Fiber diameter: 125 µm		Custom fields Sample name: MUR-1373 Operator: Mathieu Station s/n: 4103160836-2006060001		PASS
Parameter	min allowed	max allowed	Measurement result	PASS/FAIL		
Ferrule radius [B]	5 mm	30 mm	25.72 mm	PASS		
Fiber radius	5 mm	30 mm	27.17 mm	IGNORED		
Spherical fiber undercut [A]	-100 nm	39.2 nm	6.1 nm	PASS		
Planar fiber undercut	-30 nm	0 nm	-78.9 nm	IGNORED		
Apex offset [C]	0 µm	50 µm	43.5 µm	PASS		
Apex bearing	-360 °	360 °	145.8 °	IGNORED		
Angle error	-0.5 °	0.5 °	0.097 °	IGNORED		
Fiber roughness Sq	0 nm	50 nm	2 nm	PASS		
Ferrule roughness Sq	0 nm	50 nm	2 nm	PASS		
Ferrule bore diameter	120 µm	130 µm	125.4 µm	IGNORED		

Blink is a software platform common to all Data-Pixel products. Dedicated plugins support the Interferometry range of products : 3D Scope-V2, Daffi SF and Daisi-V3.

PDF, HTML and CSV reporting capability with extensive database support (SQL Server, MySQL, ODBC, ORACLE,...).

OLE automation support is available for dedicated application.

ORDER OPTIONS :

DAFFI SF unit with :	71-DFSF-V1-A06-00
- Blink Interferometry	
- 2 flanges (1.25mm or 2.50mm)	
- 2 adapters (to be chosen amongst : FC N, FC W, E2000, SC, LC, MU)	
Flange 1.25mm	10-FL-001380
Flange 1.25mm LC DUPLEX (Uniboot, MDC, SN, standard LC)	30-FL-001782
Flange 1.25mm LC DUPLEX (CS, URM P2)	30-FL-002603
Flange 1.60mm	30-FL-001375
Flange 2.00mm	30-FL-001377
Flange 2.50mm	30-FL-001396
Flange 3.17mm SMA	30-FL-001971
Flange for bare fiber	40-FL-001660
Adapter 1.25mm LC	10-AD-001013
Adapter 1.25mm LC Duplex PC	Several references available
Adapter 1.25mm MU	10-AD-000555
Adapter 2.50mm SC	10-AD-000552
Adapter 2.50mm FC Narrow	10-AD-000554
Adapter 2.50mm FC Wide	10-AD-000553
Adapter 2.50mm E2000	10-AD-000408