



## DAFFI SF

*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.

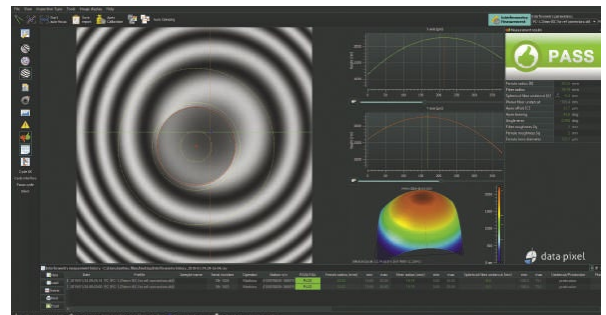
The Daffi interferometer accessories (flanges and adapters) are fully compatible with the Daisi range, allowing the user to limit the costs of the 3D geometry measurement units.

### 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

### 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



**DAFFI SF | INTERFEROMETRY**

<b>Device:</b> Daffi SF serial: 4103076038-160019	<b>Profile:</b> PC Type: PC-1.25mm-IEC for ref connectors.sfd Fiber diameter: 125 µm	<b>Custom fields</b> Sample name: Serial number: Operator: 4103076038-160019 Station s/n:	SN-1026 Mathieu
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**PASS**

Parameter	min allowed	max allowed	Measurement result	PASS/FAIL
Ferrule radius [B]	15 mm	30 mm	20.52 mm	PASS
Fiber radius	5 mm	30 mm	19.19 mm	PASS
Spherical fiber undercut [A]	-100 nm	75.1 nm	-0.4 nm	PASS
Apex offset [C]	20 µm	60 µm	33.7 µm	PASS
Apex bearing	-360 °	360 °	45.6 °	PASS
Angle error	-0.5 °	0.5 °	0.094 °	PASS
Fiber roughness Sq	0 nm	50 nm	3 nm	PASS
Ferrule roughness Sq	0 nm	50 nm	2 nm	PASS
Ferrule bore diameter	120 µm	130 µm	125.1 µm	PASS

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 : - Blink Interferometry - 1 flange (1.25mm or 2.50mm) - 1 adapter (to be chosen amongst : FC N, FC W, E2000,SC, LC,MU)	71-DFSF-V1-A06-00
Flange 1.25mm	10-FL-001380
Flange 1.25mm LC Duplex PC	30-FL-001392
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	30-AD-001701
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