

# INTERFEROMETRY



## DAISI MT FP

*Automated interferometer with Floating Pastille Technology*

The Daisi MT FP combines the Daisi MT-V3 with the new **Floating Pastille fixture technology** from DATA-PIXEL (patent US 10,274,397 B2).

This major technological breakthrough for multi-fiber connector fixtures is perfectly suited for **highly accurate X/Y endface angle measurements**.

With the Floating Pastille fixtures, measurement results are completely **independent from the influence of the fiber optic cables** and the operator. Floating Pastille is perfectly suitable for the inspection of connectors mounted with heavy cables. With the help of the Floating Pastille, the Daisi MT-V3 is now easier to operate, without compromising any of its existing features : accuracy of measurements, reproducibility, speed, robustness. **No calibration is now required, as it is factory set**, per fixture, by DATA-PIXEL.

### SPECIFICATIONS :

Measurement Method :	Phase shifting + Z scanning
Connector Type (PC/APC) :	MT12/24 & MT16/32
Illumination :	White light + Red light
Measurement speed (sec.) :	6 (MT12)
Lateral resolution ( $\mu\text{m}$ ) :	2.5
Field of view (mm) :	5.6 x 5.6
Power source :	12V
USB outputs :	USB 3.0 + USB 2.0
Weight (kg) :	6.3
Dimensions H x W x L (mm) :	133 x 171 x 244

### KEY FEATURES :

Combined White-Light and Red-Light phase-shifting interferometer for precise tip radius and core-dip measurement

Fast Autofocus that simplifies operator's handling

Very high accuracy and reproducibility for small X/Y angles measurements

Suitable for field heavy cables, standard small cables MTP/MPO connectors and pigtailed with MT ferrules

No calibration required

Floating Pastille Flange is compatible with existing DAISI MT units\*

Closed-loop high precision 30 microns Z-scan

Vibration insensitive

High resolution optics and camera for a better resolution

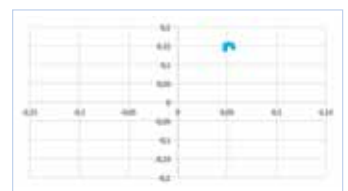
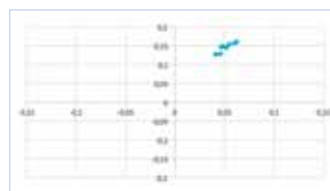
Large field of view able to scan up to 96 fibers

\* existing units may need to be upgraded, depending on their configuration/version

### X / Y ANGLES MEASUREMENTS :

Without Floating Pastille fixture

With Floating Pastille fixture





**PERFORMANCE :**

Parameters	Repeatability *	Reproducibility **	Range
X/Y angles (°) :	0.001	< 0.01	± 1 (PC or APC)
Fiber height (µm) :	0.003	0.01	Up to 20

\* values calculated from 50 measurements without interaction on connector between measurements

\*\* values calculated from 50 measurements while removing and inserting connector in ferrule holder between measurements

**ORDER OPTIONS :**

DAISI MT FP unit with Blink Interferometry	70-DAMT-V3-A02-01
Flange Floating Pastille Female MT 12/24	30-FL-002323
Flange Floating Pastille Female MT 16/32	30-FL-002325
Adapter MPO for MT12/24 ferrules	10-AD-001017
Adapter MPO for MT16/32 ferrules	30-AD-001776
Flange Male MT 12/24	10-FL-001354
Flange Male MT 16/32	10-FL-001729
Flange Female MT 12/24	30-FL-001355
Flange Female MT 16/32	30-FL-001357