

INSPECTION D SCOPE MT LWD



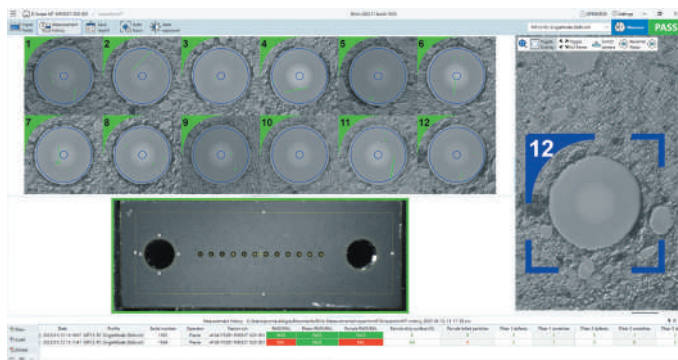
D SCOPE MT LWD

High resolution microscope for Multi-Fiber connectors

Designed for inspection of MPO connectors, patch-cords or bulkheads, the D Scope MT LWD **checks the cleanliness of the connector face and precisely measures the defects on the optical fiber end-faces**. Using Deep Learning technology associated with a high-resolution optical bench, **the scratch and defect detection thresholds are significantly improved compared to traditional software**.

Blink Deep Learning can be taught all types of defects indefinitely, including atypical shapes, giving this equipment unmatched capacity and detection reliability. Additionally, **thanks to a second dedicated optical bench, the same unit can identify and quantify the contamination level of the full connector ferrule**. Still using a Deep Learning algorithm, **it is now possible, for the first time ever, to provide automatic pass/fail criteria on the ferrule cleanliness**.

Thanks to its high-quality mechanics, the D scope MT LWD is an extremely rugged unit ensuring endurance over time, even under high-volume production conditions. With these new features, **the new Long Working Distance (LWD) D scope MT is the ideal instrument to verify fiber optic connector conformity**.



KEY FEATURES :

- Testing of PC/APC MPO connectors in cassettes/modules or in patchcord form
- Testing of PC/APC Single-Fiber connectors
- Automatic Pass/Fail defect analysis on fiber optics
- Automatic Pass/Fail cleanliness analysis on MPO connector endface
- Deep Learning inside with defect teaching possibility
- High resolution metrology equipment
- Compliance with Industry Standards as IEC 61300-3-35
- Intuitive Blink software with database connectivity
- Compatible with desktop PC, laptop, tablet PC

DEEP LEARNING
INSIDE



SPECIFICATIONS :

- Magnification (fiber screening) : x480*
- Defect size detection (μm) : 0.4
- Outputs : USB 3.0 + 2.0
- Power source : 12V
- Dimensions H x W x L (mm) : 105 x 230 x 370
- Weight (kg) : 7.7

* On 24" screen, 96 dpi

TYPICAL REPORT (FOR MT 12):

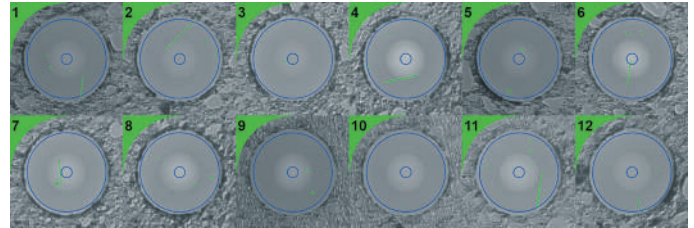
Inspection MT report Generated by Blink Data-Pixel

Date	2023-01-12 11:05	Serial number	1550	FAIL
Measurement device	D Scope MT	Operator	Pierre	
Device s/n	4104170281-P03537-020-001	Station s/n	4104170281-P03537-020-001	
Profile	MT12-PC-SingleMode 26db Copy.lmt			
Fiber diameter	125µm			

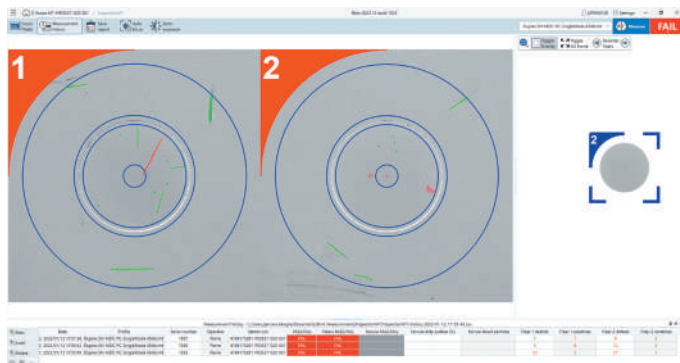
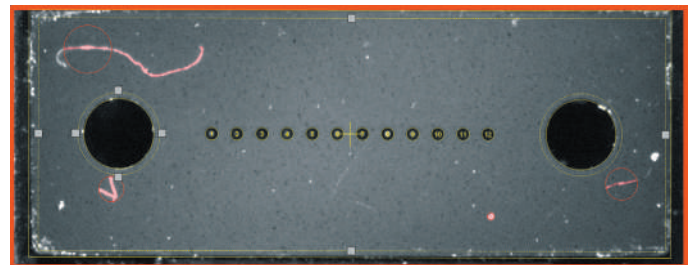
Ferrule control	Allowed	Measured	Pass/Fail
Dirty surface (%)	5%	1.179%	PASS
Number of failed particles	0	28	FAIL

Zone A: Core			Zone B: Cladding			
Diameter: 15 µm Scratches Allowed: Up to 2 ≤ 3µm None > 3µm Defects Allowed: None			Diameter: 110 µm Scratches Allowed: No limit ≤ 3µm Up to 3 from 3-5µm None > 5µm Defects Allowed: No limit ≤ 5µm Up to 5 from 5-10µm None > 10µm			
Fiber	Defects	Scratches	Defects	Scratches	Pass/Fail	
1	0	0 ≤ 3µm 0 > 3µm	1 ≤ 3µm 0 from 5-10µm	1 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
2	0	0 ≤ 3µm 0 > 3µm	3 ≤ 5µm 0 from 5-10µm	0 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
3	0	0 ≤ 3µm 0 > 3µm	2 ≤ 5µm 0 from 5-10µm	0 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
4	0	0 ≤ 3µm 0 > 3µm	2 ≤ 5µm 0 from 5-10µm	2 ≤ 5µm 0 from 3-5µm 0 > 5µm	PASS	
5	0	0 ≤ 3µm 0 > 3µm	4 ≤ 5µm 0 from 5-10µm	0 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
6	0	0 ≤ 3µm 0 > 3µm	2 ≤ 5µm 0 from 5-10µm	1 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
7	0	0 ≤ 3µm 0 > 3µm	1 ≤ 5µm 2 from 5-10µm	0 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
8	0	0 ≤ 3µm 0 > 3µm	2 ≤ 5µm 0 from 5-10µm	2 ≤ 5µm 0 from 3-5µm 0 > 5µm	PASS	
9	0	0 ≤ 3µm 0 > 3µm	3 ≤ 5µm 0 from 5-10µm	0 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
10	0	0 ≤ 3µm 0 > 3µm	4 ≤ 5µm 0 from 5-10µm	0 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
11	0	0 ≤ 3µm 0 > 3µm	2 ≤ 5µm 1 from 5-10µm	1 ≤ 3µm 0 from 3-5µm 0 > 5µm	PASS	
12	0	0 ≤ 3µm 0 > 3µm	5 ≤ 5µm 1 from 5-10µm	5 ≤ 5µm 0 from 3-5µm 0 > 5µm	PASS	

AUTOMATIC PASS/FAIL RESULT ON FIBER DEFECTS :



AUTOMATIC PASS/FAIL RESULT ON FULL MT FERRULE CLEANLINESS :



LWD ALLOWS :

Thanks to its wide field of view camera, the Dscope MT LWD allows to scan both ferrules of Duplex connectors in one shot whether it is LC Duplex or Very Smaller Form Factor connectors (CS, SN, MDC,...).

It represents a substantial time saving as the inspection results for both ferrules are obtained simultaneously without having to manipulate the connector.

ORDER OPTIONS :

D Scope MT LWD unit with BLINK INSPECTION SF & MT	70-DSMT-V1-A10-10
Flange MPO Male/Female, PC, 12/24 fibers, for Module	30-FL-002996
Flange MPO Male/Female, APC, 12/24 fibers, for Module	30-FL-002997
Mount for module	30-MT-002998
Mount for Flanges (to be used with D Scope MT Flanges)	30-MT-002999
D scope MT Flanges:	
Flange MT Male/Female, PC/APC, 12/16/24/32 fibers	30-FL-002181
Flange MPO Male/Female, PC/APC, 12/16/24/32 fibers	30-FL-003277
Flange Single-Fiber 1.25 mm PC/APC	30-FL-002314
Flange Single-Fiber 2.50 mm PC/APC	30-FL-002315
Flange Optitap PC/APC 2.50mm	30-FL-003429
Flange Duplex Single-Fiber 1.25mm (LC, MDC, CS, SN,...)	Several references available