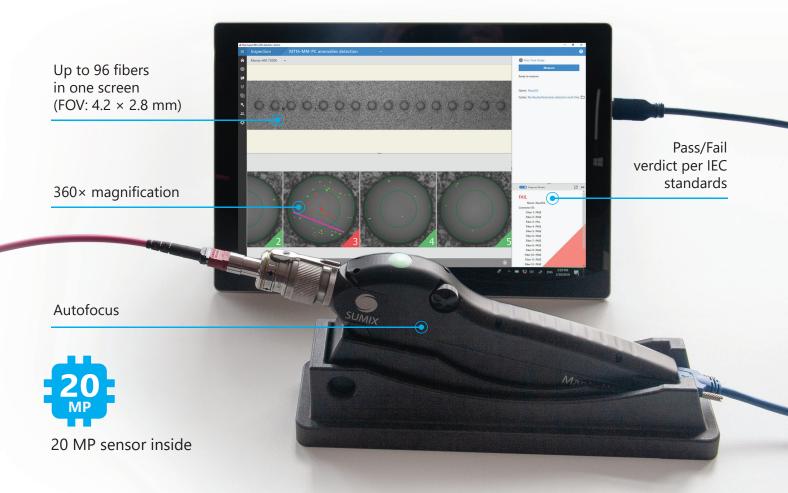


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# Manta HM

Automated microscope for inspection of single and multi-fiber patch cords, bulkhead and QSFP modules



## Compact in size, big on capability

## Unsurpassed optical performance\*

High-contrast precision optics, optimal axial illumination and 20MP sensor provide for accurate measurements of small anomalies.

\*among handheld microscopes for multi-fiber inspection with a similar FOV.

#### Large field of view

Pass/Fail analysis of an MPO connector is done in a single scan taking just 3 seconds (for MPO12/16).

Guide holes and ferrule surface are inspected at the same magnification as fibers.

# Versatility from bench to patch panel

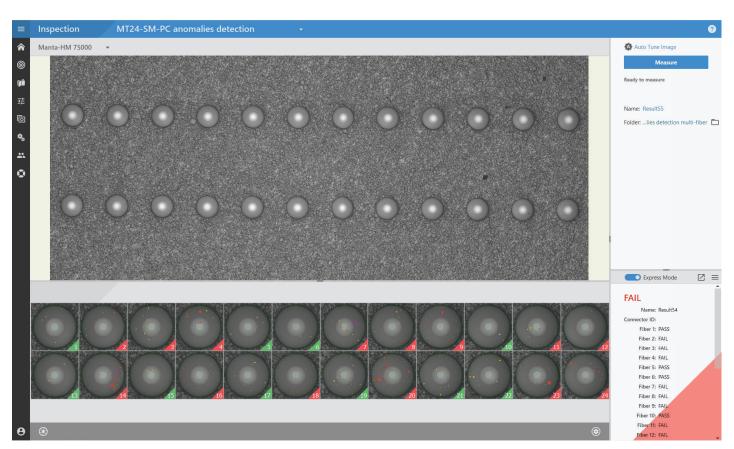
Manta HM can be used as a handheld probe for testing transceivers and bulkhead connectors in patch panels, as well as a benchtop solution for production lines and labs.



**Application:** production lines, laboratories, incoming inspection, maintenance in data-centers. **Recommended for:** high-power laser applications, single mode connector inspection, final verification, and other cases where small details matter.

### Specification

Connectors inspected:	Male and female MPO connectors (SM and MM), MT ferrules, LC, FC, SC, E2000™, QSFP, ARINC, MIL-38999, High-power SMA, Avim, mini-Avim, 3M™Expanded Beam Optical Connector, ODC®, Q-ODC®, MXC®, HMFOC, CS®, SN® and more	
Measurement time*: * doesn't include autofocusing time	2.6 sec for MT12, 3.5 sec for MT16, 4.5 sec for MT24,	10 sec for MT72
Field of view:	4.2 × 2.8 mm	
Defect size detection:	0.5 μm	
Effective resolution:	1.5 μm (based on MTF calculations)	
Magnification:	0.75 μm/px or 360× (for a 24″ display 1920x1080)	
Focus:	Autofocus	
Camera type:	CMOS, 20MP, monochrome	
Power source:	USB 3.0 port of PC	
Dimensions ( $H \times W \times L$ ):	70 × 28 × 246 mm (2.76 × 1.1 × 9.69 inches)	
Weight:	491 g (1.08 lbs)	
Material:	aluminum housing, stainless steel barrel	
Compatible with:	desktop PC, laptop, tablet	Type: Scratch Zone: A
Operating system:	Windows 10	Leopth: 95 µm Average within: 12 µm Relative intensity: 0.010
Software integration tools:	Excel/CSV, SQL, WebSocket API	
Centralized data-base connectivity:	Yes	
Compliance with IEC requirements:	Yes	
NIST traceability:	Yes	
		Scratches detected on SF end face



Measurement result for a 24-fiber MPO connector