

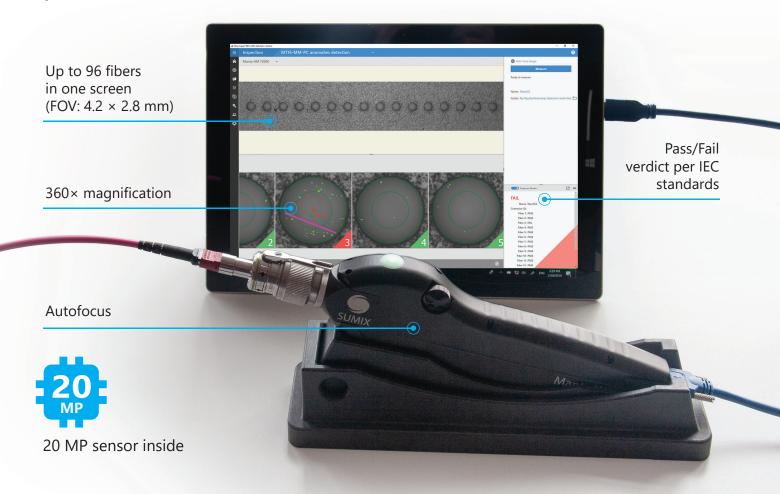
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Manta HM High Magnification

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*: 2.6 sec for MT12, 3.5 sec for MT16, 4.5 sec for MT24, 10 sec for MT72

* doesn't include autofocusing time

Field of view: $4.2 \times 2.8 \text{ mm}$

Defect size detection: $0.5 \, \mu m$

Effective resolution: 1.5 μm (based on MTF calculations)

Magnification: $0.75 \mu \text{m/px or } 360 \times (\text{for a } 24^{\prime\prime} \text{ display } 1920 \times 1080)$

Focus: Autofocus

Camera type: CMOS, 20MP, monochrome

Power source: USB 3.0 port of PC

Dimensions (H x W x L): $77 \times 36 \times 246 \text{ mm } (3 \times 1.4 \times 9.8 \text{ inches})$

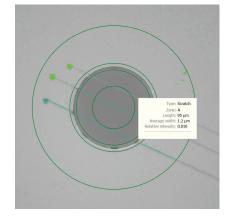
Weight: 491 g (1.08 lbs)

Material:aluminum housing, stainless steel barrelCompatible with:desktop PC, laptop, tablet, Android phone

Operating system: Windows 10, Windows 11

Software integration tools: Excel/CSV, SQL, WebSocket API

Centralized data-base connectivity: Yes **Compliance with IEC requirements:** Yes



Scratches detected on SF end face

