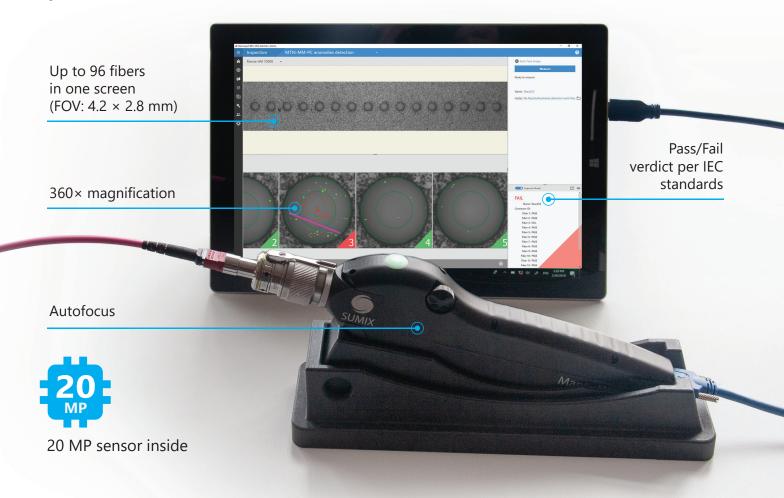


Distribution in the UK & Ireland



# 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):**  $77 \times 36 \times 246 \text{ mm } (3 \times 1.4 \times 9.8 \text{ inches})$ 

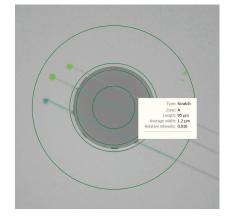
**Weight:** 491 g (1.08 lbs)

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

