

# MAX-Series Interferometers



maximum usability  
maximum accuracy  
maximum speed

for Fiber Optic Connector Surface Inspection

## Device Features and Benefits

### High resolution optics

Resolve surface details as small as 1.1  $\mu\text{m}$  on single fiber and 1.4  $\mu\text{m}$  on multi-fiber connectors.

### Smart and ergonomic fixtures

Save time with easy ferrule/connector insertion and fixture handling.

### Fast measurements

Measure single fiber connector in less than a second and multi-fiber connector as quickly as 3 seconds with USB 3.0 SuperSpeed connection.

### 50 $\mu\text{m}$ scan range (white light mode)

Measure large height differences.

### High contrast optics

Inspect buffer zones, plastic and metal surfaces.

### Wide range of fixtures

Inspect single and multi-fiber connectors, ferrules, bare fibers, MS termini, both PC and APC.

### Modern, portable and robust design

Make high quality measurements in the field.

### Microscopy mode

Visually inspect connector endface prior to measurement.

MaxInspect™  
software

supplied with Sumix  
interferometers

## Software Features and Benefits

### One-click operation

Save time testing large quantities of connectors in Express Mode.

### Customizable administrator and user levels

Tune inspection process as per your requirements.

### Compliance with industry standards

Test radius of curvature, apex offset, fiber height, core dip and other parameters per IEC, Telcordia or your own Pass/Fail criteria.

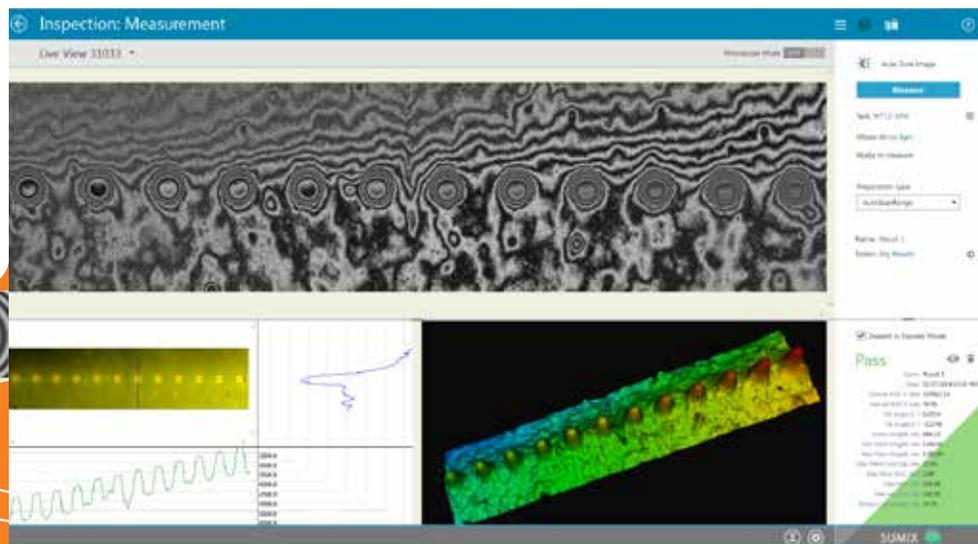
### Interactive 2D and 3D surface profiles

Rotate, zoom, scale images to explore surface details.

### Configurable report generation and data archival

Document your results your way.

**NEW** Combined scratch detection and geometry testing  
Speed up inspection and increase work efficiency.

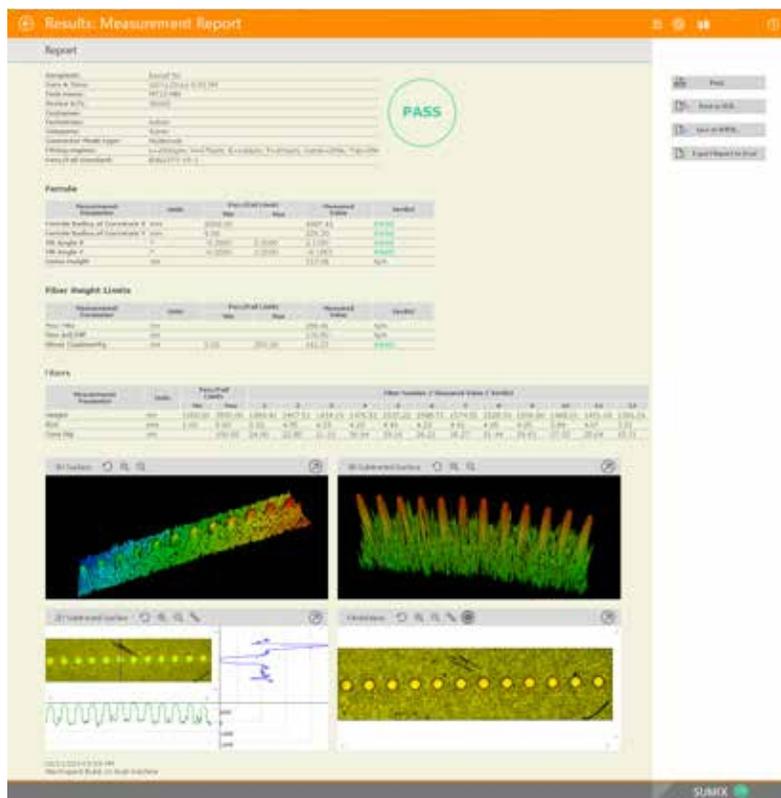


# Specification

| Optimal for connectors                             | Single fiber                                 | Both   | Multi-fiber                               |
|--|--|--|---|
| Models   | MAX-QS                                       | MAX-QM-B   | MAX-QM                                    |
| Field of view                                      | 1.1 × 0.9 mm                                 | 3.5 × 1.8 mm   | 5.3 × 3.0 mm                              |
| Lateral resolution                                 | 1.1 μm                                       | 1.4 μm   | 2.2 μm                                    |
| Best suitable for connectors/ferrules (PC and APC) | ST, FC, SC, MU, LC, E2000, MT-RJ, MS termini | MT, MTP/MPO, MT-RJ, SMA 905, MS termini, ST, FC, SC, MU, LC, E2000 | MT, MTP/MPO, MT-RJ, SMA 905               |
| Measurement mode                                   | phase shift and white light                  | phase shift and white light  | white light                               |
| Scanning and calculation speed                     | 2 sec*                                       | <1 sec*<br>5 sec**   | 3 sec**                                   |
| Maximum image size                                 | 2590 × 1940 px                               | 2590 × 1940 px   | 2590 × 1940 px                            |
| Power supply                                       | external, via two USB 3.0 cables             | external, via two USB 3.0 cables                                   | external, via two USB 3.0 cables          |
| Weight   | 3.9 kg (8.6 lbs)                             | 3.8 kg (8.4 lbs)   | 3.8 kg (8.4 lbs)                          |
| Dimensions (H × W × L)                             | 103 × 137 × 183 mm (4.06 × 5.39 × 7.2 in)    | 103 × 137 × 183 mm (4.06 × 5.39 × 7.2 in)                          | 103 × 137 × 183 mm (4.06 × 5.39 × 7.2 in) |
| Focus  | manual and short range auto                  | manual and short range auto  | manual and short range auto               |

\* 64 MHz, standard single fiber connector

\*\* 64 MHz, MT 12 connector with small x, y angles



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