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Fiber Optic Microscope

Digital fiber microscope for connector end-face inspection

The digital fiber optic microscope automatically inspects and certifies the end-faces of fiber optic connectors according to industry standards and specifications. It provides immediate PASS/FAIL results at the touch of a button.

Contaminated connectors are the main cause of faults in optical networks. Therefore, when checking fiber optic links, the connector surfaces should be inspected before each one is plugged in. This prevents dirt from affecting transmission quality or damaging the contact surface. With the fiber optic microscope, connector end-faces can be quickly and easily inspected and automatically evaluated according to industry standards and specifications. These reproducible evaluations prevent subjective misjudgments of fiber end-face quality.

Thanks to the USB connection, the microscope can be easily connected to the WireXpert series or the FiberXpert 5000, LinkXpert M3, and NetXpert series.

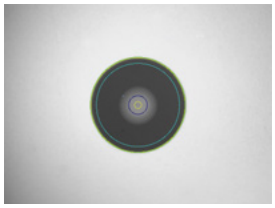
FEATURES

- Inspection and evaluation of the fiber optic surfaces with PASS/FAIL analysis
- Automatic evaluation according to IEC 61300-3-35
- Easy handling and fast analysis
- Compatible with LinkXpert M3, NetXpert series, WireXpert series, or FiberXpert OTDR 5000
- Adapters for the most common fiber optic connectors included with delivery

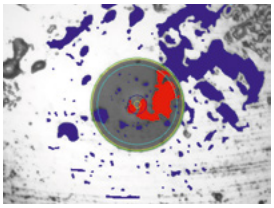
The corresponding evaluation of the connector end-faces is automatically included in the respective measurement reports. Automatic image centering ensures that the fiber optic cable is always displayed in the center of the screen. Two magnification levels (200x/400x) enable detailed and meaningful testing and analysis. Effortless switching between live and analysis views is possible at the touch of a button.

Additional test probes are available to comprehensively support all connector types used in today's networks.

2-ZONE EVALUATION

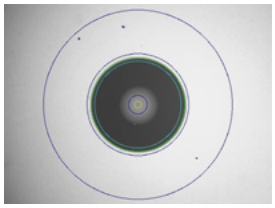


PASS

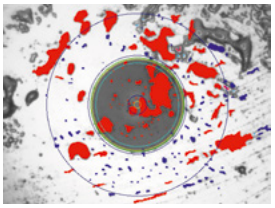


FAIL

4-ZONE EVALUATION



PASS



FAIL

SCAN ME

IT Networks

itnetworks.softing.com/microscope

Fiber Optic Microscope

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Parameters	General Specifications (at 25 °C)
Weight	110 g (3.88 oz)
Dimensions (W × H × D)	140 x 46 x 44 mm (5.5 x 1.8 x 1.7 in)
Low-mag field of view (FOV)	Horizontal: 740 µm, vertical: 550 µm
High-mag field of view (FOC)	Horizontal: 370 µm, vertical: 275 µm
Live image	640 x 480 pixels at 8 fps
Connector	USB 2.0 (backwards compatible with USB 1.1)
Cord length	183 cm (6 ft)
Camera sensor	1/2.5-in CMOS, 2560 × 1920 pixels
Particle size detection	< 1 µm
Light source	Blue LED, 100,000+ hour life
Lighting technique	Coaxial
Power source	USB Port
Certification	CE
Operating temperature	0 to 40 °C (32 to 104 °F)
Storage temperature	20 to 60 °C (-4 to 140 °F)

Accessories	Article number
Adapter FC/PC – for FC/PC connectors	**216420**
Adapter FC/APC – for FC/APC connectors	**216563**
Adapter LC/PC – for LC/PC connectors	**216517**
Adapter LC/PC extra long – for LC/PC connectors	**216564**
Adapter LC/APC extra long – for LC/APC connectors	**216565**
Adapter SC/PC – for SC/PC connectors	**216533**
Adapter SC/APC – for SC/APC connectors	**216561**
Adapter ST – for ST connectors	**216424**
Adapter 1.25 mm PC – for 1.25 mm PC patch cables	**216430**
Adapter 1.25 mm APC – for 1.25 mm APC patch cables	**216566**
Adapter 2.5 mm PC – for 2.5 mm PC patch cables	**216432**
Adapter 2.5 mm APC – for 2.5 mm APC patch cables	**216431**
Adapter MPO/MM – for MPO/MM connectors	**216567**

ORDERING INFORMATION

Fiber Optic Microscope

Article number	226539

Scope of delivery:
1 Fiber Optic USB microscope
1 Soft bag
1 Set of FC/LC/SC/U12M/U25M tips*

*Additional tips are available as accessories

You can find further accessories on our website or contact us:

itnetworks.softing.com/contact

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