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Optical microscope, handy, x400, connector inspection

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link to the product:
https://intersell.pl/gb/647-optical-microscope-handy-x400-inspection-of-the-5907813981289.html

Manufacturer: InterOpto

Reference number: IO-MC400

Information:

Handy optical microscope for accurate surface quality control. Thanks to this, you can clearly see scratches and dirt.

Full product description

The INT series of handy optical microscopes uses white LED for coaxial illumination. The light is introduced into the optical path (axis) in such a way that it exits the tip of the lens and hits the sample perpendicular to the face of the optical fiber. As a result, scratches and dirt are clearly visible.
The microscope is used for precise control of the surface quality.

Usage method

1. Insert the fiber to be checked into the fiber optic input bay. Insert the fiber optic connector into the light source input.
2. Check the quality by looking through the eyepiece and pressing the ON / OFF LED (illumination) switch.
3. Finally, find the clearest image by adjusting the sharpness of the image.

SPECIFICATION

Technical parameters	
Optical magnification	400X
Control	ON / OFF switch Fine focus adjustment
Laser protection filter	Built in
Adapter interface	Use removable adapters, presented universal or dedicated.
General parameters	
Dimensions (length x diameter) [mm]	225 x 32 (8.76 "x 1.25")
Weight [kg]	0.6

Power	3 x AAA alkaline battery
LED lifetime [h]	10,000

Description Cat.

INT-MC400 Optical microscope 400x with a universal "slip-grip" adapter.

Terms of warranty

All company's products are warranted against defects in material and workmanship for a brak of 12 months from the date of delivery. The warranty does not cover instruments worn or damaged as a result of misuse, abuse, tampering or unauthorized repair.
Under this warranty, we will repair or replace, free of charge, any part that proves to be defective in material or quality after our tests.

Safety when working with a laser: Optical inspection microscope.

The microscopes used for optical inspection are equipped with a powerful built-in laser security filter. This laser suppression filter is the result of laser safety research when using a handy microscope to examine the fiber front. This allows to reduce the danger resulting from the user's contact with the laser.

The following is the simple internal structure of a fiber optic microscope:
Optical microscopes in this series are equipped with infrared suppression filters that can help prevent eye damage in case of accidental viewing through active optical fiber. The installed filter provides attenuation above 35dBm for the wavelength of 1310nm and 1550nm. Additionally, it provides over 20.5dBm attenuation at 850nm, 1550nm.
We believe that for 1310nm and 1550nm laser sources up to + 15dBm, our microscope will provide sufficient protection in case of accidental viewing. Above this power level, and especially when using Raman amplification systems, we recommend the use of our Video Inspection Microscope. It offers the highest level of security in microscopic analysis as the video camera is directed towards the optical fiber and not the eye. In the case of systems equipped with lasers of such high power, we feel that this additional level of certainty is required.
DO NOT USE any of our microscopes to inspect active fiber optics under any circumstances. Active fiber optic signals contain a high-power laser beam that can be hazardous, so avoid direct eye contact with the laser light. Failure to avoid direct eye contact with the laser light can cause serious eye damage. Such precautions must be observed in particular when using a handy microscope based on optical magnification. The safety filters used in our handy microscope are not a substitute for maintaining the required safety measures. If you are not aware of laser safety practices, please contact your distributor or receive professional training. There are many qualified trainers who can help with fiber optic technology.