

Fiber Connector End Face Autofocus Scope

400X, All fiber connector types



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Features

- Integrated Design
- Autofocus
- High Resolution

This auto-focus fiber end-face inspection scope automatically captures high-resolution images as soon as an optical connector is inserted into the device. Critical across production, field installation, maintenance, and quality control, it helps ensure the overall stability and performance of fiber optic communication networks. The system streamlines standardized testing, ensures product consistency, and integrates seamlessly with automated manufacturing environments. Available with 200x or 400x magnification options, it features durable, easily interchangeable adapter tips to support a wide range of connector inspection requirements.

Specifications

Parameter	Min	Typical	Max	Unit
Magnification		50X/80/200X/400X		
Screen Size		8 TFT 800*600 PIX		inch
Image Input/Output Format		Digital imaging		
X-Y Axis Adjustment		Manual adjustment		
Focus Mode		Voluntarily		
Interface type		TYPE-C		
Operating Temperature	-10		40	°C
Storage Temperature	-20		55	°C
Supply voltage		110-240		VAC
Weight		3		kg

Applications

- Connector Inspection



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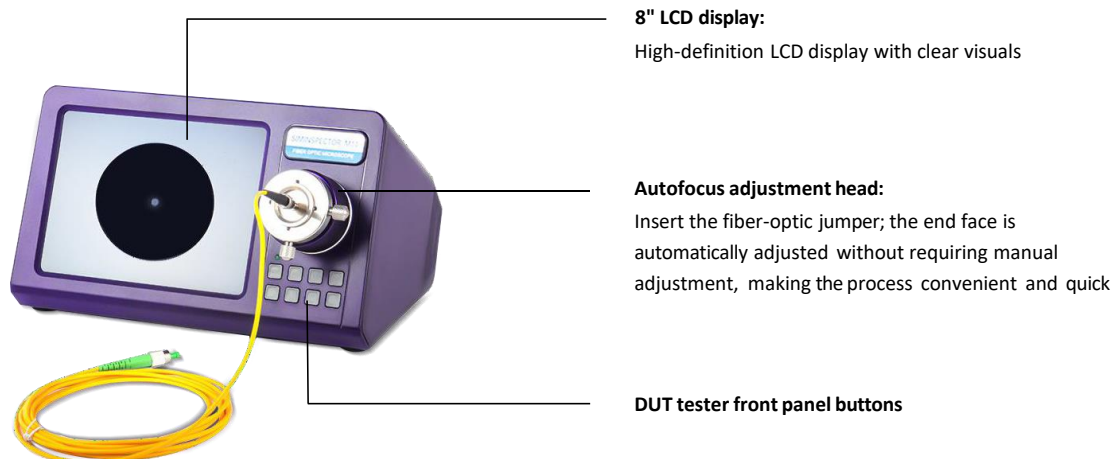
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Product Description



8" LCD display:

High-definition LCD display with clear visuals

Autofocus adjustment head:

Insert the fiber-optic jumper; the end face is automatically adjusted without requiring manual adjustment, making the process convenient and quick

DUT tester front panel buttons

Terminal Tester Buttons: [Front Panel Instructions]



Power indicator light: It can also serve as a light source for testing the continuity of optical-fiber tail fibers



UP: Serves as the "Add" button and the "Previous Page" button in photo browsing mode



MENU: Menu key, featuring Brightness (BRIGHTNESS) and Contrast (CONTRAST) settings



DN: Serves as the "Reduce" button; in photo browsing mode, it serves as the "Next Page" button



Adjustment shaft: Rotate clockwise to increase the distance between the test object and the machine lens; rotate counterclockwise to decrease the distance between the test object and the machine lens

Manual adjustment of the X-axis: Adjusts the position of the light relative to the center point to the left or right

Manual adjustment of the Y-axis: Adjusts the position of the light relative to the center point upward or downward

Adapter (compatible with various adapters) – supports customization



Endoscope rear panel buttons

Terminal Tester Buttons: [Back Panel Description]



Power switch: ON, OFF



DC 12V: DC 12V power input



AV OUT: The video signal can be output to other devices



SWITCH: Used to switch between the internal signal and the external input signal for instrument selection



AV IN: External video signal input



USB: USB card slot for exporting stored images

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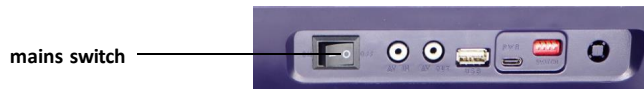
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Operational Testing Instructions

1. **Power-on Commissioning:** Place the machine on a flat surface, install adapter interfaces of the same type as the test product, then connect it to the standard 12V power supply provided by our company (**Be sure to use a standard 12V power supply; excessive voltage may damage the machine or cause irreversible damage, while insufficient voltage may lead to unstable machine operation!**), switch the SWITCH to the position shown in the figure, and then press the power switch to turn the machine on (ON).

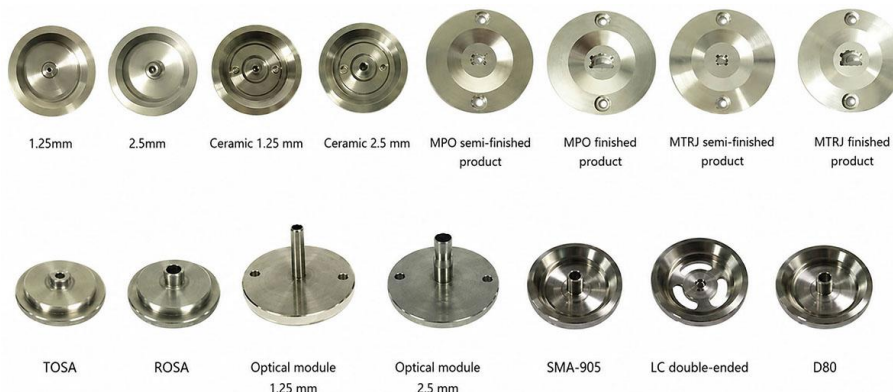


2. **Manual focus adjustment:** Insert the inspection product into the inspection interface, then rotate the focus knob according to the specific product (rotate clockwise to increase the distance between the test product and the machine lens, or rotate counterclockwise to decrease the distance between the test product and the machine lens), until the image is at its sharpest position (typically, when adjustments are made as shown in the figure, rotating the focus knob by 1/4 turn counterclockwise will yield the sharpest image); if the image is not centered, adjust the XY axes to center the image.



3. **Image clarity adjustment:** Depending on your specific usage requirements, press the MENU button to enter the display parameter settings interface; press MENU to move the cursor to the corresponding parameter field, then use the UP/DN keys to manually adjust BRIGHTNESS (black-and-white contrast) and CONTRAST (brightness contrast) until the image quality reaches its optimal state; for time adjustment, press MENU to move the cursor to the corresponding parameter, then use the UP/DN keys to add or subtract the current local time; press the MENU button to move the cursor to "EXIT", and then press UP/DN to save and exit.
4. **Tested Products:** The surface condition of the test product is clearly displayed on the screen; subsequent testing and analysis can then be performed according to the requirements. If testing other types of products, simply replace it with the corresponding matching adapter. (This solution is not universal for all products; special optical fibers may not be compatible with standard end-face testers due to variations in focal length and working distance, and require custom customization.) (For any inquiries, please contact our company.)

Integrated end-face detector — Various adapters



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Matters Need Attention

1. This instrument is precision equipment; please do not drop it.
2. Do not leave near a fire source or too close to high-temperature areas.
3. Do not touch operating buttons or switches with wet hands.
4. Use the correct power charger when charging.
5. This product is highly specialized; please do not disassemble it to avoid damaging any components. If repair is required, please return the device to our company.

Maintenance

1. If the lens will not be used for an extended period, please take care to protect it from dust to prevent the lens from becoming dirty; if the lens is already dirty and appears blurry, simply use a soft paper towel soaked in alcohol to gently wipe it.
2. Do not touch the lens with sharp objects to avoid causing damage.
3. If the instrument experiences any malfunction, do not attempt to disassemble it yourself; please contact our after-sales service department to avoid any potential losses.

Guarantee

The warranty period for this instrument is 12 months. During the warranty period, all malfunctions resulting from non-human-caused improper use shall be repaired free of charge by our company. The warranty applies solely to the instrument itself and does not cover any losses to other equipment, personal safety, or property arising from improper use.

Quality Assurance

1. All products have undergone rigorous testing under our company's quality management system, ensuring they function properly for users. If the instrument exhibits any quality issues or is damaged during transportation, please contact us.
2. The warranty period for the instrument shall be 12 months from the date of delivery; during this period, if the product develops any operational failure, our company shall be responsible for providing free repair or replacement of the product. However, in cases where the malfunction or damage is caused by user error, unauthorized modification or disassembly, mechanical impact, or natural disasters, the company may charge appropriate repair fees. In no event shall our company's liability exceed the purchase price of the product.
3. If any issues arise during the use of the instrument and cannot be resolved according to the troubleshooting instructions provided for common faults, users should not attempt to open or disassemble the instrument on their own; please contact our company directly for consultation to avoid the risk of fire, electric shock, or other malfunctions.

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Ordering Information (Part Number)

	6	1	1	☐	0	☐	☐	☐	☐
Prefix	Type	Dual Screen	Particle Counting	Inside Probe	Bare Fiber Adaptor	Connector 1	Connector 2	Connector 3	Connector 4
FSCO-		Non = 1 Yes = 2	Non = 1 Yes = 2	Non = 1 Yes = 2	No = 0 Yes = 1	General = 1 FC/PC = 2 SC = 4 ST = 6 LC/PC = 7 Duplex LC/PC = 8 MPO = 9 FC/APC = A PM FC/APC ^[1] = D LC/APC = B Special = 0	General = 1 FC/PC = 2 SC = 4 ST = 6 LC/PC = 7 Duplex LC/PC = 8 MPO = 9 FC/APC = A PM FC/APC ^[1] = D LC/APC = B Special = 0	General = 1 FC/PC = 2 SC = 4 ST = 6 LC/PC = 7 Duplex LC/PC = 8 MPO = 9 FC/APC = A PM FC/APC ^[1] = D LC/APC = B Special = 0	General = 1 FC/PC = 2 SC = 4 ST = 6 LC/PC = 7 Duplex LC/PC = 8 MPO = 9 FC/APC = A PM FC/APC ^[1] = D LC/APC = B MTP = M Special = 0

[1]. Permanent fixture. Key aligned to a horizontal grid line on the screen.