

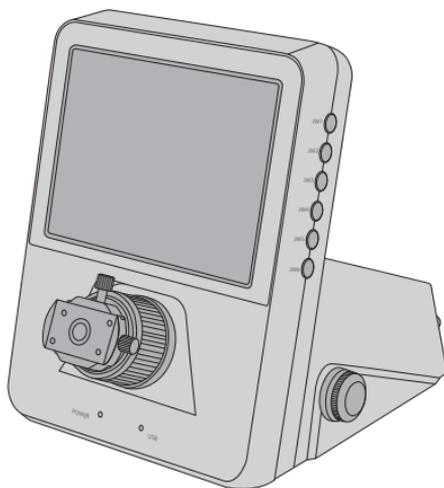
FFOI-606/FFOI-607

# DESKTOP VIDEO 3D MICROSCOPE

Quick Start Guide **V1.0**

## Introduction

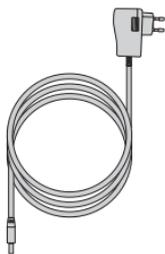
Desktop video three-dimensional (3D) microscope integrates the display and scope all together to greatly convenience the operation and improve the efficiency, it has a great advantage with high resolution, light weight and multiples port support, posit and negative images etc. It's super well suitable for fiber kits manufacturer inspection.



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## Accessories

## Optional (Not Included)



Power Adaptor x1



Battery x1



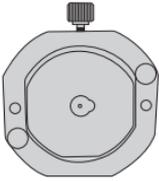
SD Card x1



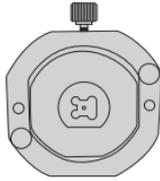
Conversion Head x1

# Optional (Not Included)

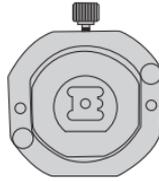
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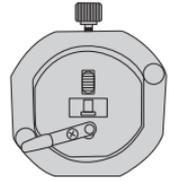
FC-PC/APC x1



LC-PC/APC x1



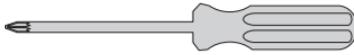
SC-PC/APC x1



OM-08 x1



M3 x12

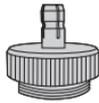


Screwdriver x1

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LC-F x1



MF-SC-F x1

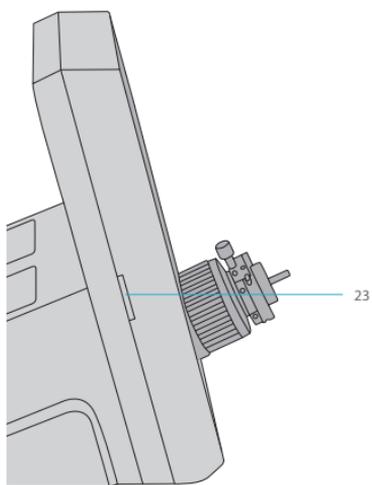
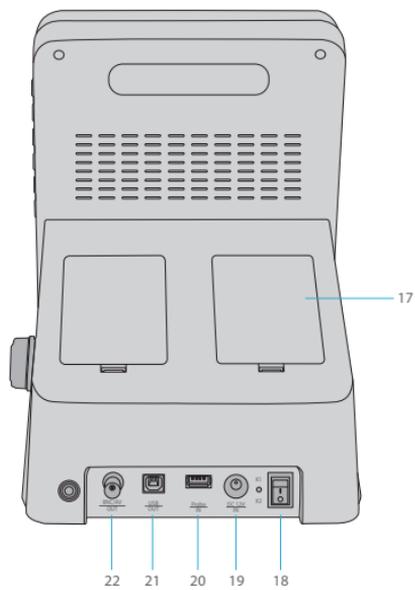
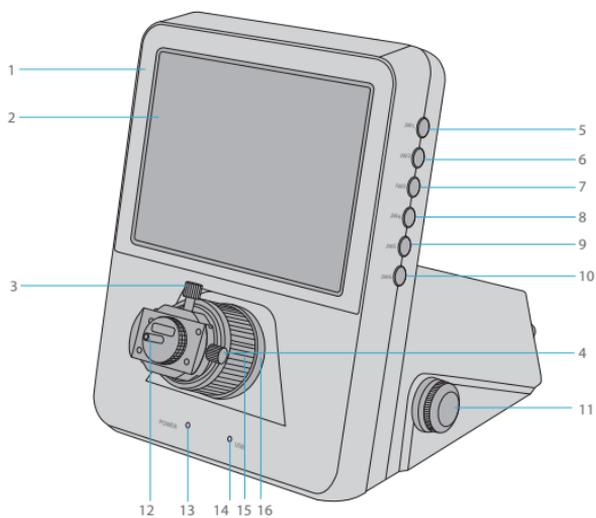


2.5PC-M x1



1.25PC-M x1

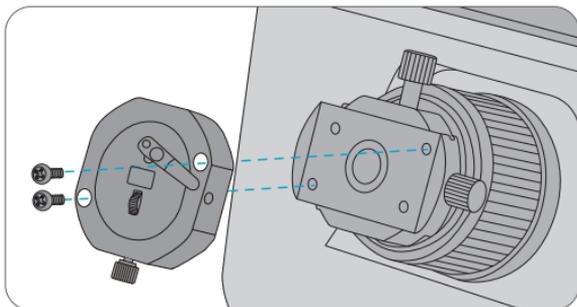
# Function Introductions



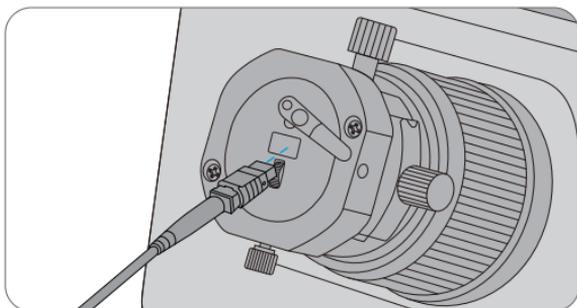
NO.	Button	Description
1	Body Shell	The use of high-strength plastic, lightweight, wear-resistant, no deformation, colors choosable.
2	TFT Display	8.0-inch LCD screen with high resolution and brightness.
3/4	Y, X-Axis Adjustment Knob	Adjust with the knob up and down, left and right movement, one by one to observe the end of each fiber.
5	Negative Key (JW1)	Hold to press the key for 3 seconds, the display shows negative image specially for small scratches observation, and then press 3 seconds to switch back for normal image.
6	Highlight Key (JW2)	Used to highlight the fuzzy, shallow and subtle scratches for easy observation.
7/8	Adjustment Keys (JW3, JW4)	Used to adjust the display brightness, contrast and color.
9	Menu Key (JW5)	Display options menu key.
10	Display Key (JW6)	Turns the display on and off.
11	Brightness Adjustment Knob	Adjust the brightness of the light source at the end of the light source, for easy and clear observation.
12	Clamp	Mainly to play a fixed and positioning role on fiber end, different fibers need corresponding different clamp for test.
13	Power Indicator	When power is on, the light is on. When switch to battery for power the light flashes for low display.
14	USB Indicator	When the USB is connected to the computer, the light is on.
15	Focusing Wheel	Flip the wheel clockwise or counterclockwise to make sure the end face can be adjusted to show.
16	Lens Adjustment Seat	70 series of aluminum, hard wear, excellent surface.
17	Battery Box, Storage Box	Storage for DC lithium batteries (optional), fixtures or other accessories.
18	Power Switch	0 for power off, K1 for power on for work, K2 for power on with external scope connection.
19	Power Interface	12V dedicated power interface.
20	Scope-In Interface	Used to connect hand-held scope.
21	USB Function Interface (Optional)	USB output digital image to the computer, professional viewing and analysis software can be offered to check.
22	BNC Video Output Interface	Can output CRT display dedicated signal.
23	SD Card Slot (Optional)	Insert SD card for storing detection images.

# Installing

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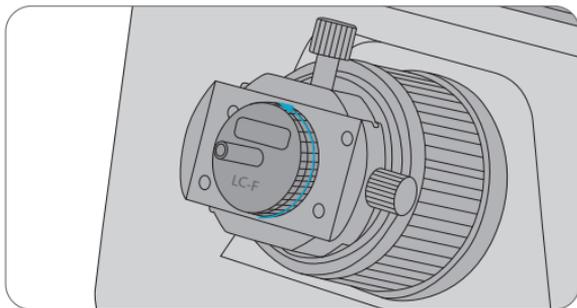


1. Mount the clamp on the microscope with two M3 screws.

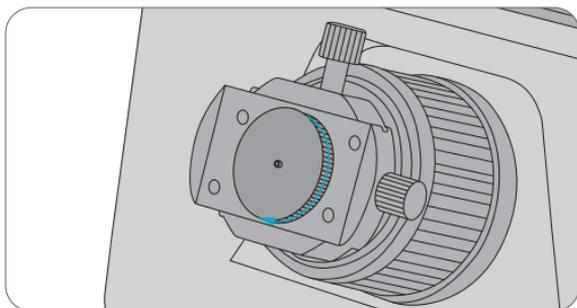


2. Insert the MTP trunk cable to be detected.

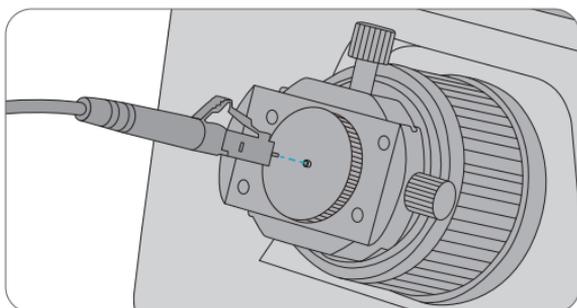
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1. Counterclockwise rotation to remove the original clamp.



2. Replace with the clamp you need to install, turn clockwise to tighten.



3. Insert the LC fiber patch cable to be detected.

## Operation Instructions

- Step 1: After the power is on, set the power key to K1, insert the fiber jumper or fiber optic device, adjust the focus wheel until you observe the clear fiber end-face image.
- Step 2: Use the external hand-held scope: connect the scope (currently only support the company's scope) with the device from scope-in port, switch the power key to K2 for observation.
- Step 3: Keep holding "JW1" key (3 seconds) into the negative image mode to facilitate clear observation of subtle scratches, then keep holding (3 seconds) to switch back to normal observation.
- Step 4: In the negative image mode, keep holding "JW2" (3 seconds), the vague or shallows scratches will be highlighted, simple subtle scratches can be easily spotted, of course image noise also increases at the same time.

Positive

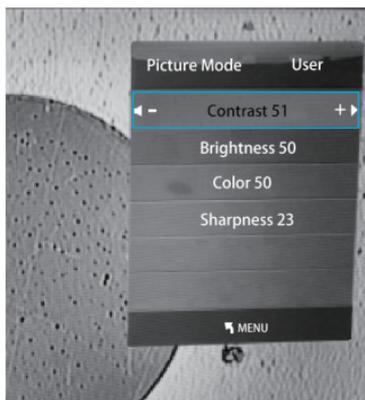


Negative



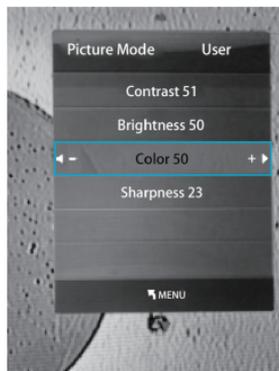
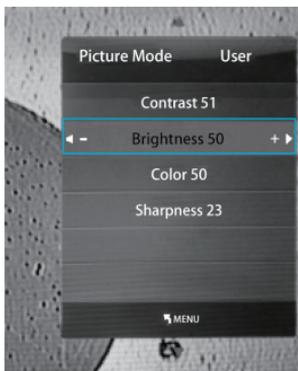
Step 5: Adjust the display contrast, brightness, color and sharpness:

1. Contrast adjustment: press "JW5" into contrast adjustment, press "JW3" to reduce contrast, press "JW4" to increase contrast.

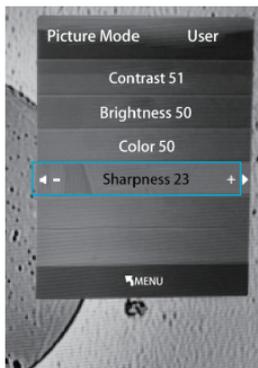


2. Brightness adjustment: press "JW5" into brightness adjustment, press "JW3" to reduce the brightness, press "JW4" to increase the brightness.

3. Color adjustment: press "JW5" into color adjustment, press "JW3" to reduce the gray, press "JW4" to increase the gray.



4. Sharpness adjustment: press "JW5" into sharpness adjustment, press "JW3" to reduce the clarity, press "JW4" to increase the clarity.



## Maintenance

(1) For the first time use, if no image finds, please adjust the X/Y axis for callbration until the light from source hole is positioned in the center. Please do not move any screws or kits since the microscope is well organized in factory before any delivery.

(2) Take care of the clamp for long use and replace it if it has too much swear and wear. Please keep lens clean and away from being contaminated by dusts and other residues for long use.

## Online Resources

- Download <https://www.fs.com/download.html>
- Help Center [https://www.fs.com/service/help\\_center.html](https://www.fs.com/service/help_center.html)
- Contact Us [https://www.fs.com/contact\\_us.html](https://www.fs.com/contact_us.html)

## Product Warranty

FS ensures our customers that any damage or faulty items due to our workmanship, we will offer a free return within 30 Days from the day you receive your goods.



Warranty: All Fiber Optic Inspections enjoy 1 year limited warranty against defect in materials or workmanship. For more details about warranty, please check at

<https://www.fs.com/policies/warranty.html>



Return: If you want to return item(s), information on how to return can be found at

[https://www.fs.com/policies/day\\_return\\_policy.html](https://www.fs.com/policies/day_return_policy.html)