

# MC-380e Portable Color Microcirculation Scope

## User's Manual / Trouble Shooting



V1. June of 2024

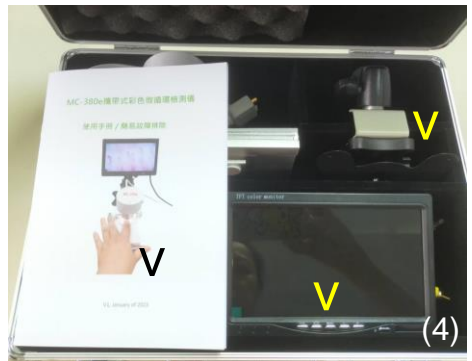
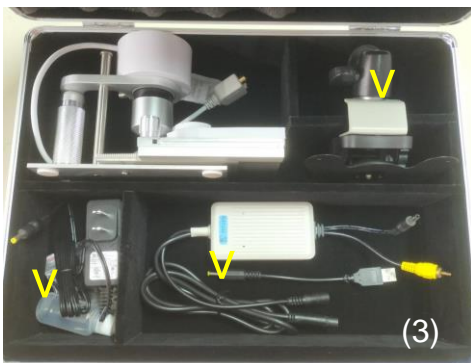
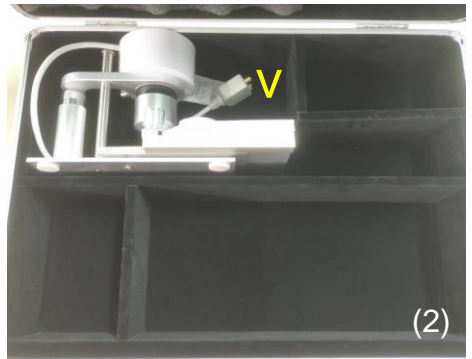
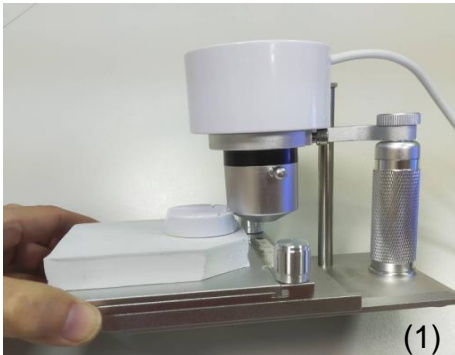
## Standard accessories:



- (1) Main unit + Non reflection 380x lens + 3-axis fine tuning platform
- (2) LCD fixing stand
- (3) 7" TFT Color LCD
- (4) DC 5V power adaptor
- (5) Cable for mobile power bank
- (6) Empty bottle for imaging oil
- (7) Power / signal switching box
- (8) User's Manual
- (9) L-type hex wrench



## How to put MC-380e in its suitcase



1. Move the viewing platform backward and adjust the lens to the lowest position, per photo (1).
2. Put the whole main unit inside suitcase, per photo (2).
3. Put power/signal switching box, power adaptor, bottle for imaging oil in proper space, per photo (3).
4. Finally put the LCD, LCD fixing stand and user's manual in the assigned location, per photo (4).

Then the package is finished.

## LCD installation & panel setting



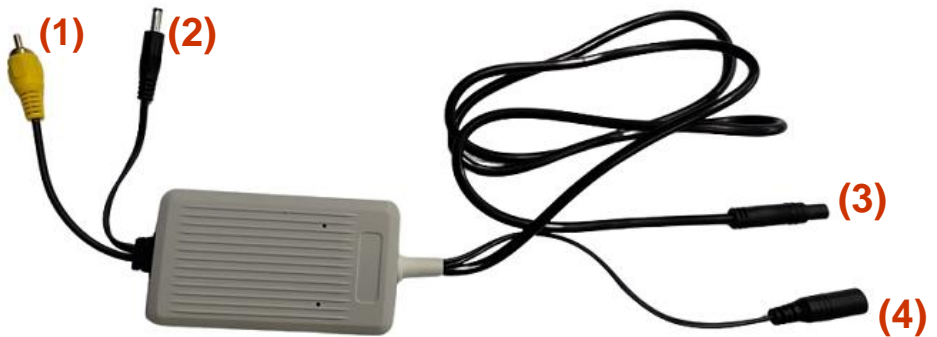
- (1) Please snap the red circle of the LCD fixing stand into the groove on the back of the LCD screen, and tighten the adjustment knob.
- (2) Adjust the forward/back lean angle and left/right angle adjustment knob of the LCD screen to appropriate positions as required.



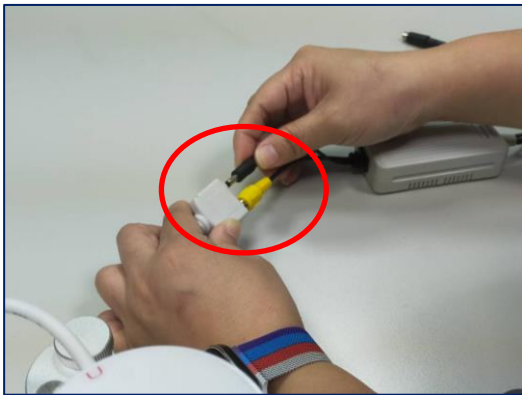
Options to adjust screen, press "**MENU**" button continuously to select: "Brightness" > "Contrast" > "Color" to set your standard.

**\* We strongly suggest the user to keep our original standard setting**

## Power/signal switching box connection



- (1) AV output
- (2) Power in --- to main unit
- (3) LCD Video in and LCD power in
- (4) Power-in connector



Please connect (1) (2) to the port at the rear of the main unit, and connect (3) to the connection port at the rear of the LCD screen.

# Power connection

2 methods for power connection.

You can choose one: :

## 1. 5V Power adaptor

Connect the connector to (4) power in port of power/signal switching box and plug the power adaptor to power socket.



## 2. Mobile power bank (prepared by user)

Connect the cable for mobile power bank connector side to (4) power in port of power/signal switching box and the USB side to mobile power bank.

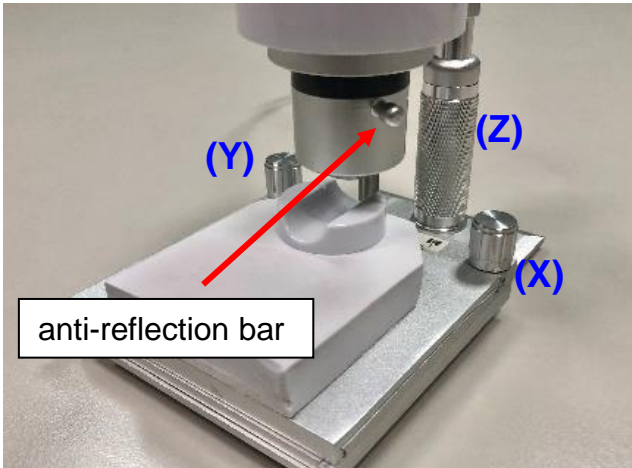


\* **When connection is finished, the RED indicator on power/signal switching box will light.**



**When all connections are completed, the lens on main unit will light. Then you can power on the LCD screen (setting to AV1) and begin the observation.**

## 3-axis fine tuning platform adjustment tuner setting



- (X) : **Left / right**  
direction tuner.
- (Y) : **Forward / backward**  
direction tuner.
- (Z) : **Up / down**  
direction tuner.

## Applying imaging oil



Please fill in the empty bottle with imaging oil (peanut oil or vegetable oil).

Available  
test area



Smoothly & evenly apply the imaging oil on the test area in order to get clearer image.

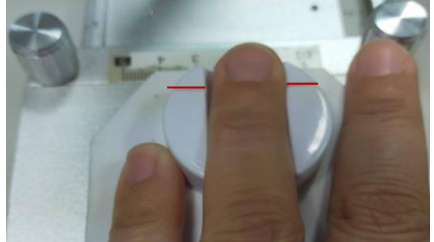


# Operation

1. Turn the Z-axis clockwise to adjust the lens to the highest position; move the finger fixing plate under the lens.



2. Evenly apply the imaging oil on the test area. On the finger fixing plate, make your nail upper edge & red carved to form a straight line and then observe.



3. Gently turn Z-axis counterclockwise to head down, and X-axis (left/right), Y-axis (forward/backward) on viewing platform to focus quickly and clearly.



4. The patent lens, you can move the anti-reflection bar to avoid reflection.



**\* Remark:**  
If you find MC-380e unit is loosen, please re-fix the round unit in a right position and use L-type hex wrench to screw it tightly.





# Trouble shooting (1)



Conditions:

1. No image.
2. No power and lens light.

Please check the following power connections:



If the connections are completed but no image displayed, then MC-380e's power is defective.

## Trouble shooting (2)

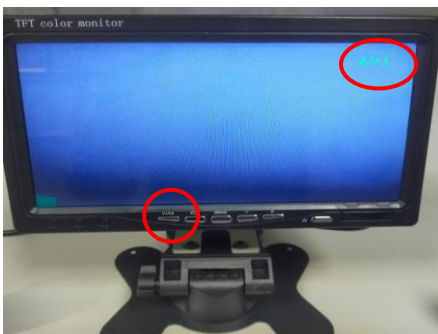


Conditions:

1. Lens light is OK .
2. But no image on LCD panel.



Please make sure if the LCD panel power cord is well-connected.



Please also ensure that the LCD panel is powered on & set to "AV1".

If the whole connection / LCD panel power are ON, but no image displayed yet, then please connect it to an external TV. If the external TV has normal image displayed, it means the LCD panel of MC-380e is out of order.

## Trouble shooting (3)



Upside down text/image displayed.



**This is because the image inversion function of the LCD screen is not set correctly. Please continue to press the 2nd button on the left at the bottom of the screen until the text/image on the screen is displayed as positive.**

**If the above conditions are right, but the image displayed is still inverted, then LCD panel is irregular.**