

Monozoom with TFT screen

VIDEO MICROSCOPE

OPERATION MANUAL

BMS 75653

INDEX

A .USAGE

B .PART NAME

C .MAIN TECHNICAL DATA

F .OPERATION

E .REPLACE BULB AND FUSE

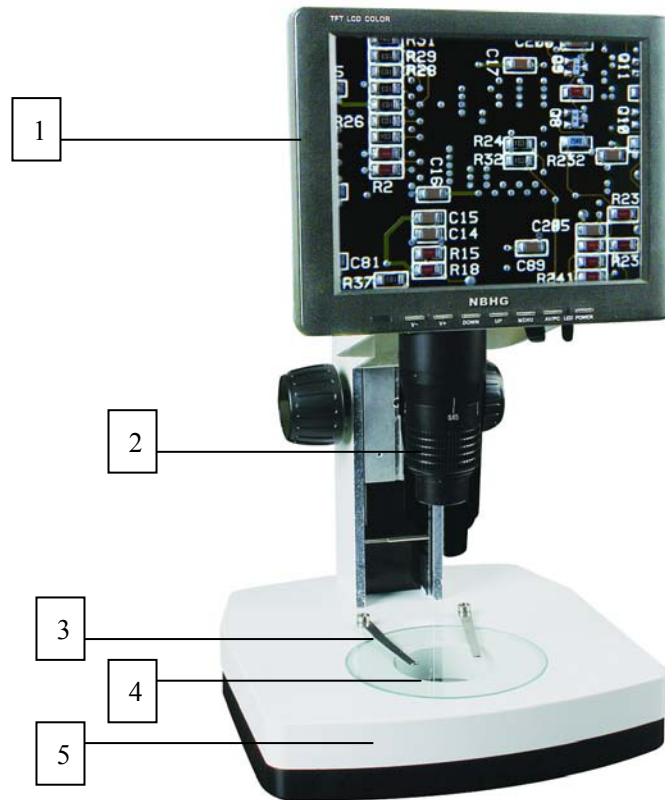
F .MAINTANCE &STORAGE

A .USAGE

BMS series zoom video microscope is a high-tech product which combines the technology of precision optics and advanced exchanging of electricity and optics.

You can see the real-time erect stereo image on the screen very conveniently. In the meantime it has long working distance feature. It's widely used in the field of inspection of electronics industry production line, inspection of the defect of PCB welding (such as printing malposition, turn down edge etc)

B .NAME OF PART AND ACCESSARY



- 1 8" LCD screen
- 2 Zoom magnification holder
- 3 Clip
- 4 Working stage
- 5 Base

C .MAIN TECHNICAL DATA

OPTICAL DATA

- ZOOM OBJECTIVE : 0.65x ~ 5.5x
- ZOOM RATIO:8.5 : 1
- WORKING DISTANCE : 112mm
- SCREEN MAGNIFICATION : 10x ~ 85x

ELECTRIC DATA

- Input voltage : 220V 50Hz or 110V 60Hz for selection

Illumination :

- 12V10W bowl style halogen bulb as incident light , 12V 10W halogen bulb
as transmitted light

D . OPERATION (The name of part refer to page 2)

Environment

Dry and dustless room, temperature between -5°C ~ +40°C.

2 . Power control

Input the plug to the socket on microscope, Details as below :

Position of power switch	Position of lamp house switch		Status of lamp (☀ON, ●OFF)	
	Incident light switch	Transmitted light switch	Incident light	Transmitted light
—	—	○	☀	●
—	○	—	●	☀
—	—	—	☀	☀
—	○	○	●	●
○	Any position		●	●

Models with dimmer can control brightness of incident and transmitted bulb.

3 . Selecting of working stage

Normally frosted glass stage equipped with microscope when packing, locked by screw. Use transmit light to observe transparent object.

Black and with plate are packed with the microscope for selecting.

When use please loosen the screw and take off the glass plate.

Normally use the white side. If for white or other transparent object need to use black side to improve the contrast and use Incident light.

4 . Placement of object

Put the clean object in middle of stage and use clip if necessary.

5 . Focusing

Turn on the power of screen, put the sample in the center of the plate, loosen the locking knob and then hold the head of microscope, move the focusing slipper up and down and fix it when can see the image roughly.

Turn the objective cover to the smallest magnification, that's 0.65x, then turn the focusing knob slowly till can see a clear image.

If need high magnification can turn the objective cover, it can be zoom from 0.65x to 5.5x. There is a slightly position on power of 1X, 2X, 3X & 4X.

E. . Replace the bulb or fuse

Warning: Before replace bulb or fuse must take off the plug.

In the meantime wait for the bulb cool off in case of burn.

Replace the incident bulb:

First take off the lampshade, replace the burned bulb with new bulb by input the feet to the porcelain socket fully.

Then set the lampshade on again.

Replace the transmitted bulb

Firstly loose the screw, then take off frosted glass and filter, take out the burned bulb and replace with new bulb by input the feet on the porcelain socket fully, at last set back the filter and frosted glass and screw.

Replace the fuse

Take out the wire and the fuse case in side, replace burned fuse by new same style fuse and then set the fuse case back

F. Maintenance and storage

1 . Microscope is a precision instrument, should place carefully, and avoid impact during transportation.

2 . Put it in a dry and clean place, avoid high temperature and shock.

3 . Do not touch the lens directly.

Keep the optical surface clean, if dust on the surface can wipe off by hair drier

Do not use organic things to wipe the surface of microscope, especially plastic surface, please use clean with neutral scour.

All the optical and mechanism part are adjusted and could not take apart by yourself.

Add grease on moving part regularly.

Put the microscope in a cool and dry place and cover it with dust cover when not be used for a long time.