



MZX81

(MZX-BG-LED)

**Stereo Fluorescence Microscope
User manual**

Content

Advantages.....	2
I . Specification.....	3
II . Construction.....	4
III. Installation.....	5
IV. Operation.....	6
Fluorescence observation.....	6
Bright field observation.....	6
V .Maintenance.....	7

MZX81 fluorescence stereo microscope using Galilean optical system, LED double epi-illumination light path design, matching Blue and Green color LED excitation light source, to achieve high-resolution and high-quality fluorescence imaging.

Advantages:

- Standard blue and green excitation groups to satisfy most scientific research requirement, accept to customize wavelength.
- Match with LED cold light source,energy conversation and environment protection, long life, no need of preheat and easy operation.
- Easy to mount with microscopes.

I . Specification

Optical system	Galilean optical system
LED epi-fluorescence illumination	3W LED Blue LED wavelength 470-475nm Blue filter set:EF 460-490nm/DM 500nm/BF 520nm; Green LED wavelength 520-530nm Green filter set: EF 510-550nm/DM 570nm/BF 590nm

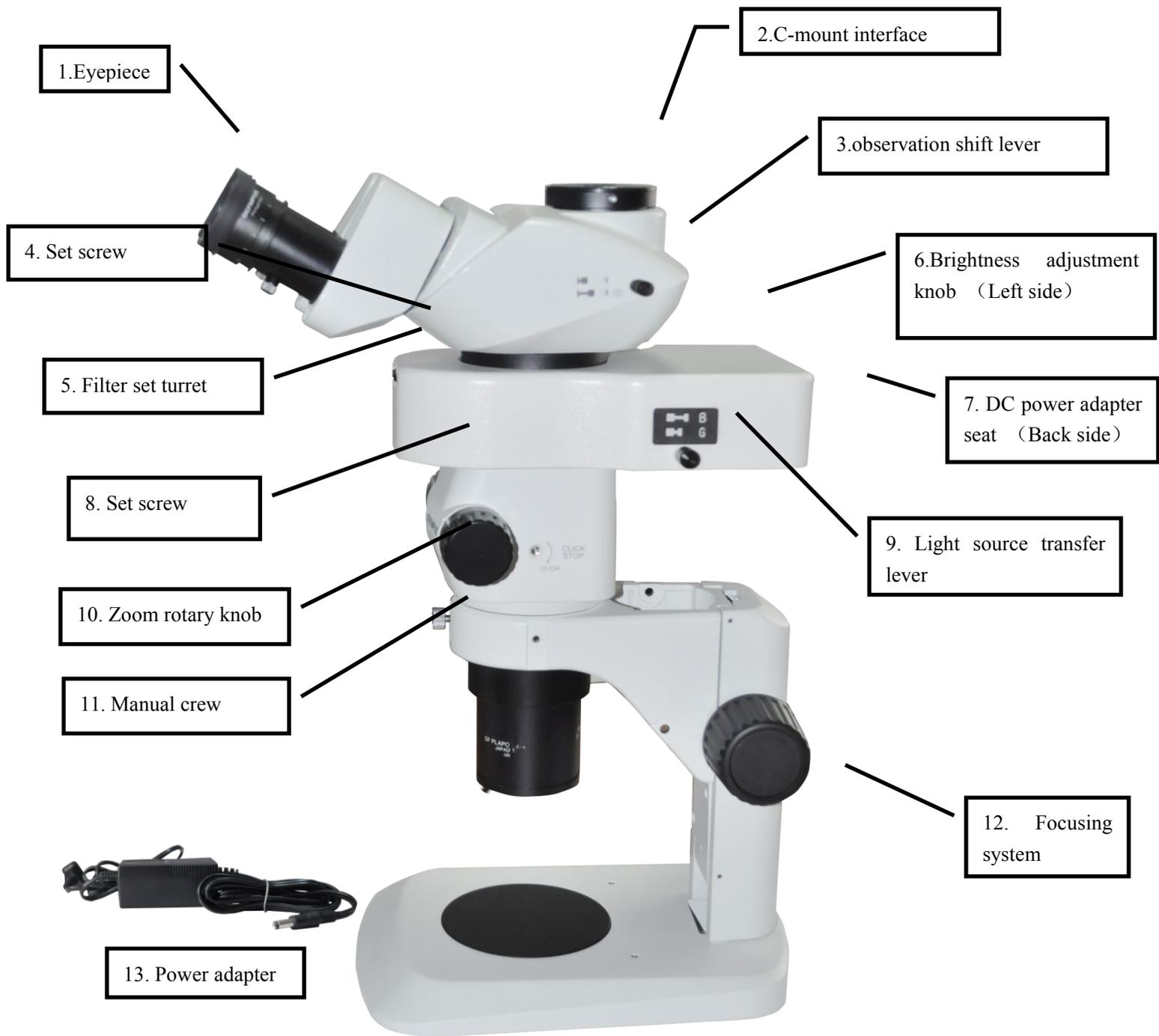
SZX-TR30 lead-free observation head
Trinocular, 30° inclination light path mode: eyepiece 100%, photography
80%, eyepiece 20%

Observation tube

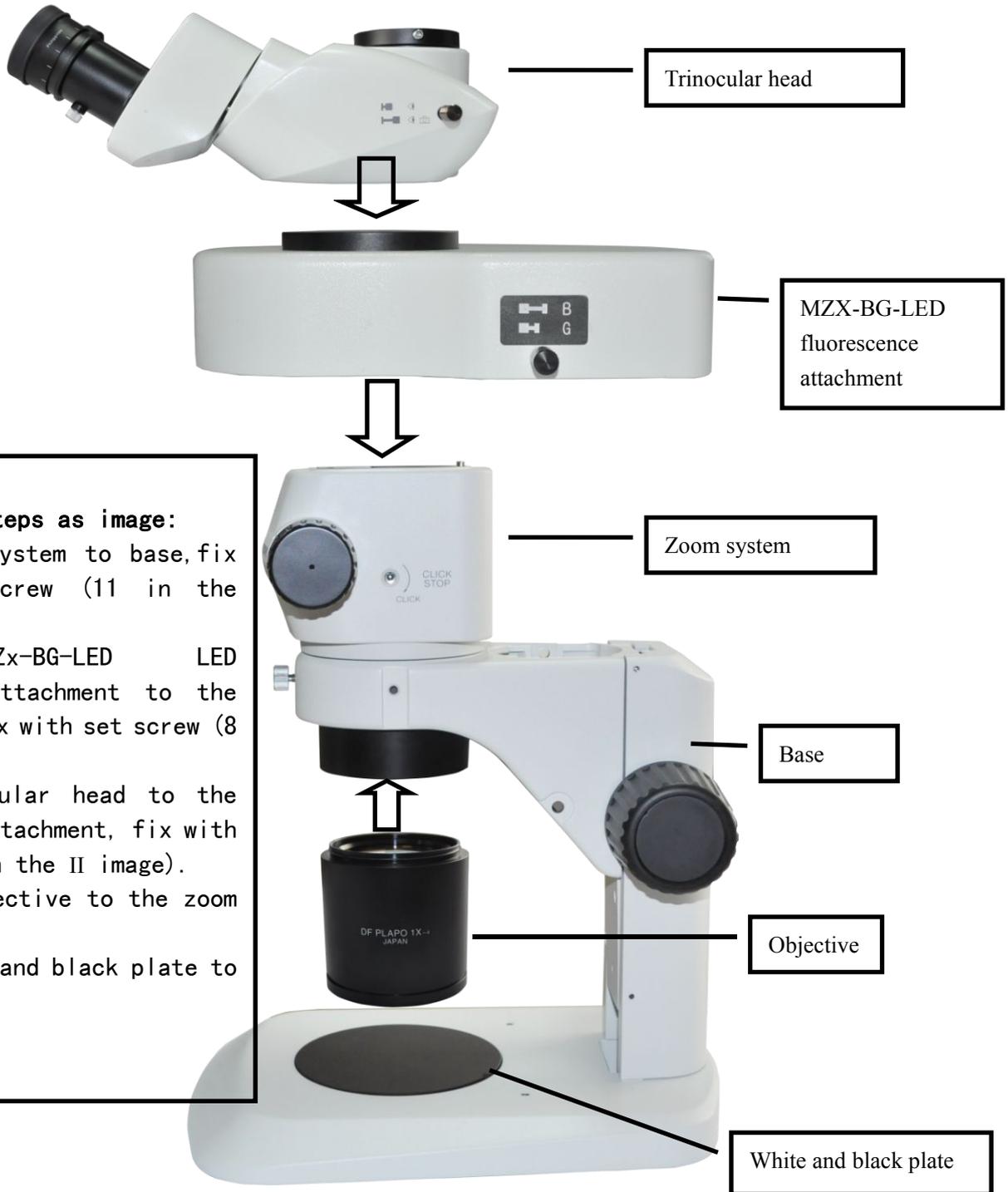


Eyepiece	SWF 10X ,F.N. 20
Zoom system	Zoom ratio: 7:1 (0.8×~5.6×) Screw fixed objective mode
Objective	1X, N.A. 0.10, WD. 81mm
Basement	SZ2-ST standard base, with fluorescence plate M-FL Transmitted fluorescence accessories SZ2-ILA、H-150 (optional)
Working surroundings	Room temperature: 5°C to 40°C (41°F to 104°F) ,Maximum relative humidity is 80%, temperature is 31°C

II. Constructions



III、 Installation



Installation steps as image:
1. Mount zoom system to base, fix with manual screw (11 in the II image).
2. Mount MZX-BG-LED LED fluorescence attachment to the zoom system, fix with set screw (8 in the II image)
3. Mount trinocular head to the fluorescence attachment, fix with set screw (4 in the II image).
4. Screw in objective to the zoom system,
5. Put on white and black plate to the basement.

IV. Operation

Fluorescence observation:

1. Connect power adapter 13 is connected to a DC power seat 7, get on power.
2. Turn the brightness adjustment switch knob 6, you can hear "ding" sound.
3. The observation needs to select the corresponding excitation group, switching the light source lever 9 to select LED excitation source, adjust the filter set turret 5 to select the corresponding filter group. LED excitation light source and the filter group must be consistent.
4. The specimen was placed in a black and white carrier board, focusing eyepieces to achieve the sharpest position, when using the eyepieces, adjust IPD and diopter.
5. Adjust the brightness adjustment switch knob 6 to achieve satisfactory lighting condition.
6. The camera can be connected on the C-mount interface 2 , pull the shift lever 3 to the eyepiece tube.

Bright field observation:

1. Turn off the brightness adjustment switch knob 6;
2. Filter set turret 5 switch to UV.
3. Open the corresponding bright field illumination.

Note: Finish using, please close brightness adjustment knob 6!

V. Maintenance

1. Wipe the lens

Wipe the lens can be used with alcohol / ether mixture or xylene lens paper or cotton flower.

2. Wipe painted surfaces

Wipe painted surfaces, used gauze to remove dust. If grease dirt removed with gauze soaked some gasoline, not with an organic solvent: Wipe painted surfaces and plastic parts (such as alcohol, ether and other diluent).

3. Do not disassemble the microscope

Microscope is a precision optical instruments, all parts Do not be demolished, so as not to undermine its operational effectiveness and accuracy. If the fault should be sent to professional maintenance department or our factory for repair.

4. After using the device, close the LED light source

When not in use, please turn off the power switch, follow energy-saving, environmental protection, use of the principle, and better maintenance of equipment.

5. When not in use

When the instrument is not in use, or polyethylene with plexiglass cover cover and store in a dry place and no mold growth. The objective lens and the eyepiece is best placed in a sealed container with a desiccant.