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Zoom Stereo Microscope

S-340 / S-341 / S-344

Instruction Manual

S-340

S-341

S-344

This instruction manual is for the Zoom stereo microscope S-340/341/344. To insure safety and obtain optimum performance and familiarize yourself fully with the use of this microscope .We recommend that you read the manual thoroughly before operating the microscope, Attain this manual instruction in an easily accessible place near the microscope for the further reference.

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CONTENTS

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USE NOTICES

Notice

1. The microscope is composed of precision components, Handle with care to prevent abrupt.
2. Check the input voltage: be sure the input voltage which signed in the back of the microscope is consistent with the power supply voltage, or it will bring a serious damage to the instrument.
3. Microscope should be place dry and clean place. Do not expose the microscope in the sun directly, avoiding high temperature and violent vibration.
4. Handle stand with one hand and the base with another hand when moving microscope.
5. If the bacterium solution or the water splash to the stage, objective or viewing tube, pull out the cord at once, and wipe up the microscope. Otherwise, the instrument will be damaged.
6. The microscope illumination house will get hot when operating. Make sure enough room to disperse heat.
7. Connect with land to prevent lighting strike.
8. Professional people to take the electronic components to prevent electricity strike.
9. Use the factory supplied power cord please.

Maintenance

1. All lenses had been precisely adjusted and do not take the microscope apart.
2. Do not take the Binocular head and focusing system apart.
3. The instrument should be kept clean, and prevent pollution while cleaning.
4. Wipe glass components softly, fingerprints and oil marked on it should be wipe off with a tissue moistened with a small amount of xylene or a 3:7 mixture of alcohol and ether.
5. Never use the organic solution to clean the other surface, if necessary, pleased choose neutral detergent.
6. Turn off electricity if microscope is moisture when operating .then wipe it off.
7. Do not take any parts of microscope apart, or else effecting microscope function.
8. The instrument should be kept in dry place, cover the microscope with the dust cover after the illumination house temperature come down.

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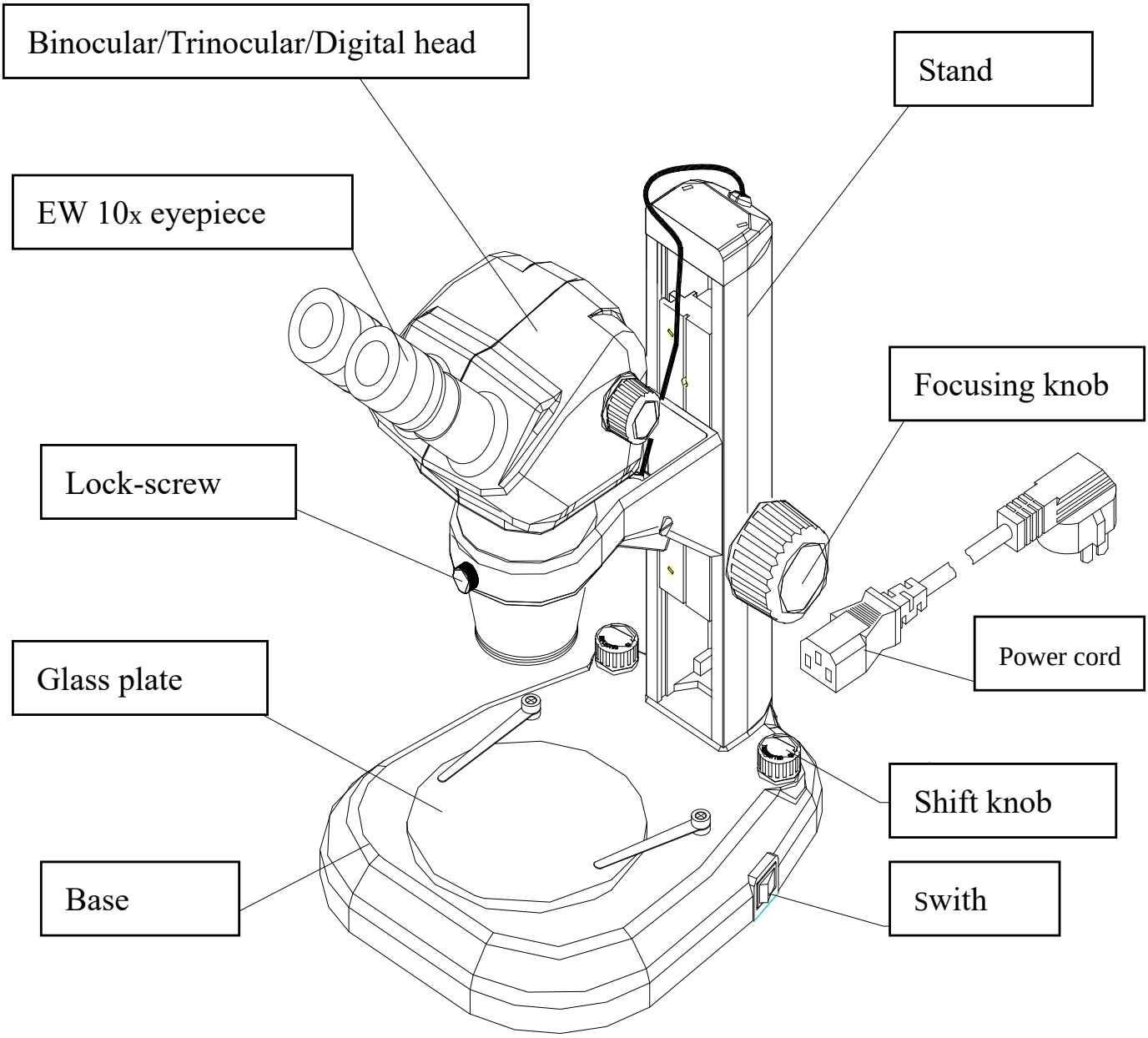
1. NAME OF COMPONENTS



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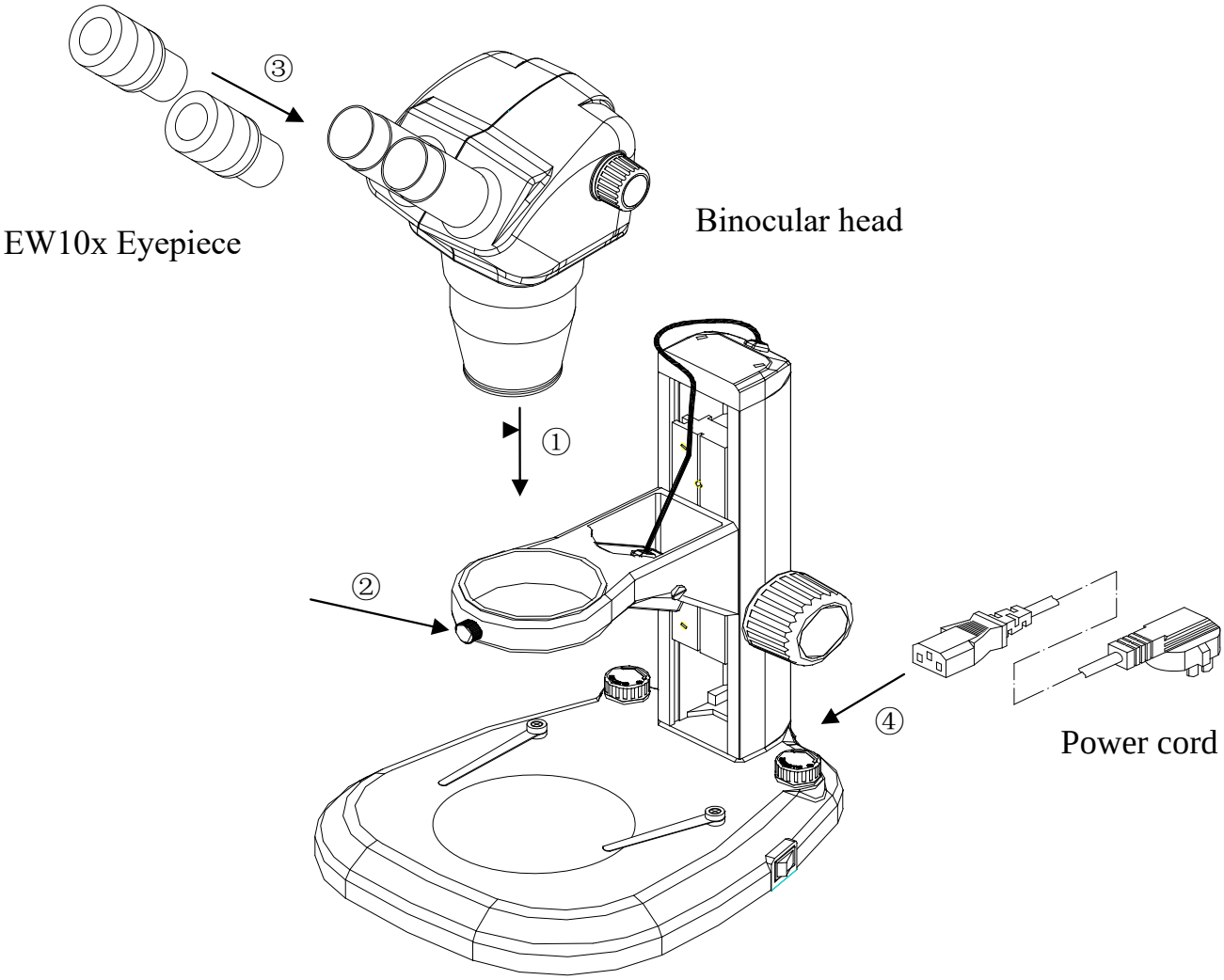
2. ASSEMBLY

2.1. Assembly Graph

Graph below indicate the assembly process

- Check it is clean before assembling. Do not scratch any components and the surface of glass.



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2.2. Assembly Process

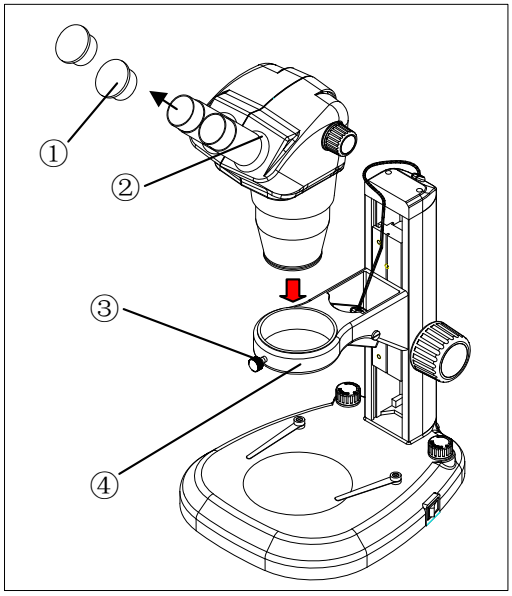

Figure 1

2.2.1. Assembly Binocular/Trinocular Head (Figure 1)

Loosen the lock-screw ③ of stand ④, put the binocular/trinocular head ② into the hole of stand, tight the lock-screw.

2.2.2. Eyepiece Assembly (Figure 2, Figure 3)

Take the dust cover ① apart of binocular/trinocular head ②. Insert the 2pcs WF10X eyepiece into tube. The rubber on the eyepiece prevents extra light. Take away the rubber when observing with glasses.

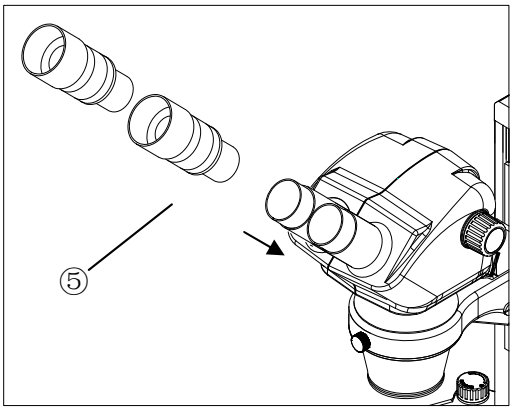

Figure 2

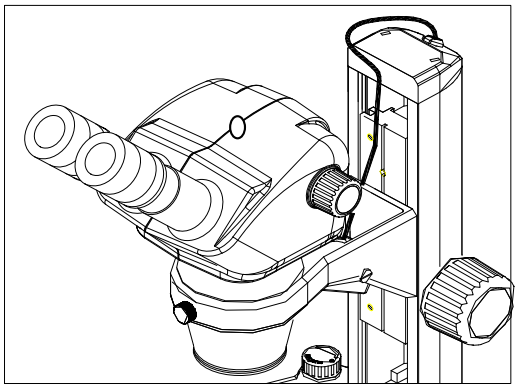

Figure 3

Working Condition:

1. Temperature: 0℃～40℃.
2. Hot or moisture will damage the instrument.
3. Place the instrument in a clear condition. Cover it the instrument when no using.
4. The microscope should be placed without vibration.

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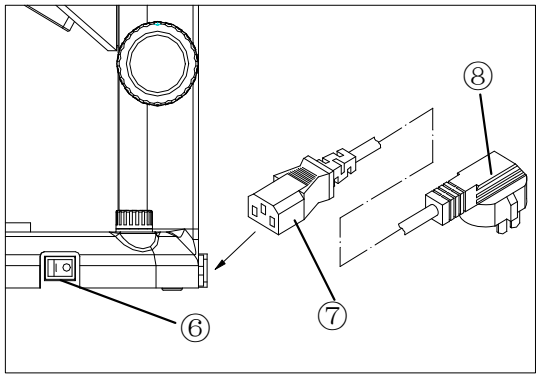

Figure 4

2.2.3. Cable connecting (Figure 4)

1. Turn to "O" position ⑥ before connecting ⑧ power ⑦.
2. Insert the pin ⑦ into microscope plug safely.
3. Insert the pin ⑧ into the power plug.

2.2.4. Use the glass stage (Figure 5)

Set the glass stage plate ⑨ on the center of base, clamp the slide with two clips ⑩ when using the plate.

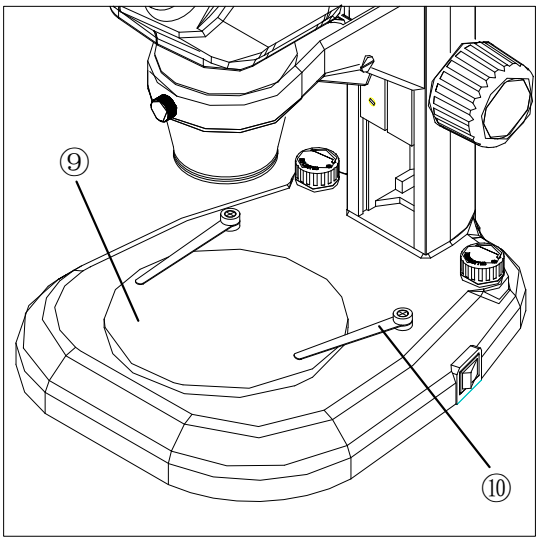

Figure 5

- ❖ Using LED light illumination
- ❖ Input: 100V～240V

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3. ADJUSTMENT

3.1. Binocular/ Trinocular head

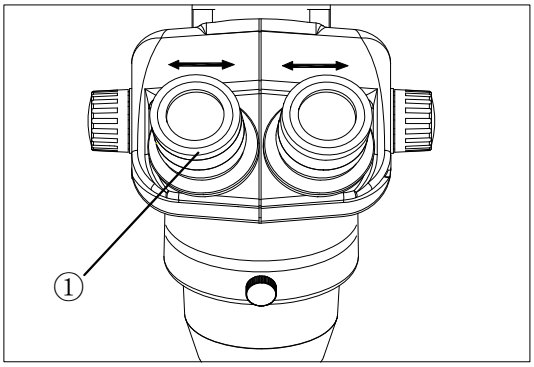

Figure 6

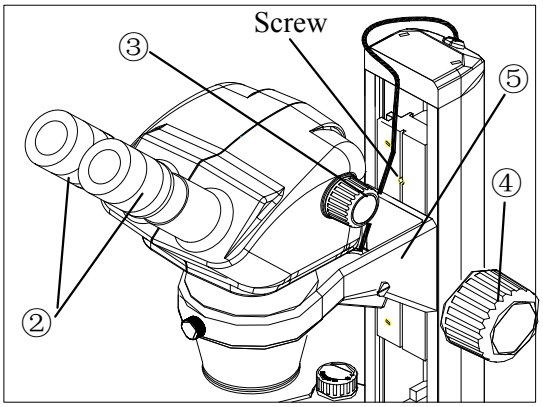

Figure 7

3.1.1. Interpupillary Adjustment (Figure 6)

Adjusting Interpupillary after observation for another one using. Hold the two tubes, ① adjust interpupillary to obtain a clear image.

3.1.2. Diopter Adjustment (Figure 7)

1. Turn the diopter adjusting rings ② to the zero.
2. Set the sample on the stage.
3. Turn the zoom adjusting knob ③ to the 5X position, focusing the sample.
4. Turn the zoom knob ③ to 0.8X position. Observe though the left side eyepiece. Adjusting the diopter ring ② to focus sample. Then look though the right eyepiece, adjusting the diopter ring ② to focus sample.
5. Repeat process3 and process 4 until the image was located on focus, the image also the clear when change the magnification.

- ❖ Working distance: 115mm, set up the tray if necessary.
- ❖ Operating: take the lock-screw down by screw driver. Driver up the tray ⑤ to a higher lock-screw hole. Tighten it.

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3.2. Stand

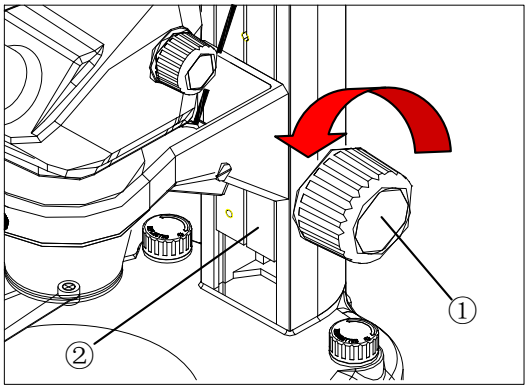

Figure 8

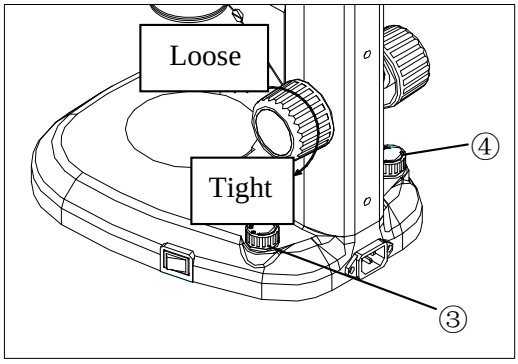

Figure 9

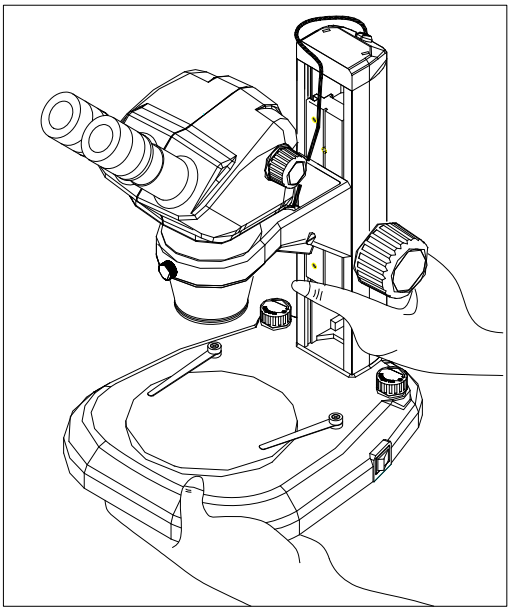

Figure 10

3.2.1.Focusing Knob Adjustment (Figure 8, Figure 9)

1. Pull down the skateboard ② by focusing knob ① in a low position to prevent the microscope head drop because of focusing knob loosen.
2. Hold two side focusing knob ①. Left focusing knob keep still, turn the right focusing knob. Move up or down according to the strength of right focusing knob.
3. Light adjustment: adjust base illumination with right side knob ③. Adjust Top illumination by left side knob ④.

Attention:

1. Clean the touch-area after observing contagious sample.
2. Take away sample before move microscope.
3. Hold the stand and the base to prevent incline during move microscope.

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4. TECHNICAL PARAMETER

Zoom Ratio	6.1:1
Zoom Range	0.8x～5x
Eyepiece	Wide field 10x/Φ22, interpupillary adjustable
Viewing Head	Incline 45°, interpupillary range: 52～75mm
Working Distance	115mm
Range of Movement	105mm
Illumination	LED lamp illumination
Input	100-240V, 0.15A, 50/60HZ

5. TECHNICAL PARAMETER

Trouble	Cause	Remedy
Double images	Interpupillary distance is not correct	Readjust it
	Diopter adjustment is not correct	Readjust it
Dirt appears in the view field	Dirt on the specimen	Clean specimen
	Dirt on the surfaces of eyepieces	Clean eyepieces
Image is not clear	Dirt on the surface of objectives	Clear objectives
Image is not clear while focusing change	Diopter adjustment is not correct	Readjust diopter
	Focusing is not correct	Readjust it
The focusing knob is not smooth	The focusing knob is too tight	Loosen it to a suitable position
The image is obscure because of the head slipping down during observation	The focusing knob is too loosen	Tighten it to a suitable position

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6. OUTFIT

Components	Specification	Quantity	S-340	S-341	S-344
Body	Main body stand	1	●	●	●
Head	Binocular zoom head	1	●	○	○
	Trinocular zoom head	1	○	●	○
	Digital Binocular zoom head	1	○	○	●
Illumination	Transmitted (LED)	1	●	●	●
	Reflected (LED)	1	●	●	●
	Ring fluorescence lamp		○	○	○
	LED Ring Light		○	○	○
Eyepiece	10x Eyepiece	2	●	●	●
	20x Eyepiece		○	○	○
Objective	0.5x Auxiliary objective		○	○	○
	2x Auxiliary objective		○	○	○
Observe plate	Black and white plate	1	●	●	●
	Glass plate	1	●	●	●
Power Cord	Power cord	1	●	●	●

●: Standard, ○: Optional