

WESTLAB SUBLIME STEREO MICROSCOPE, RECHARGEABLE, LED USER MANUAL

CODE 664-090C

INSTRUCTION MANUAL

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**Please read these instructions
carefully before use.*



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BEFORE USE

1. OPERATION

- (1.) As the microscope is a precision instrument, always handle it with care, avoiding impact or abrupt movement during transportation.
- (2.) Do not let the microscope be in sunlight directly. Keep it in a dry and clean place. Avoid high temperature and acute shaking. Following environment is required: Indoor temperature: 0°C~40°C, Max relative humidity: 85%.
- (3.) Avoiding impact the definition of the image, do not leave feculence and fingerprints on the lens surfaces.
- (4.) Before using, examine to ensure the power supply voltage is consistent with the rating voltage.

2. MAINTENANCE

- (1.) All glass surfaces must always be kept clean. Fine dust on the optical surface should be blown off by means of a hand blower or gently wiped off with a soft lens tissue. Carefully wipe off oil or fingerprints on the lens surfaces with tissue moistened with a small amount of 3:7 mixture of alcohol and ether.
- (2.) Do not use organic solution to wipe the surface of the other components. These parts, especially the plastic parts, should be cleaned with a neutral detergent.
- (3.) Do not take down or assemble it yourself.
- (4.) After use, cover the microscope with the dustcover provided, and keep it in a dry and clean place for preventing rust.

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3. PARAMETER/TECHNICAL TERMS

4-5 TECHNICAL TERMS

- (1) Total magnification=(magnification of objective) X (magnification of eyepiece)
- (2) Field of view=(line field of view of the eyepiece selected) ÷(magnification of the objective selected)
- (3) N.A.= $n \cdot \sin \alpha$ (max), N.A.is very important parameter which marks the features of the objective and condenser. The “n” is the refractive index of the medium (air or immersion oil) between the cover glass of the objective and the specimen. The “ α ” is the half of the aperture angle. The N.A.is bigger, the resolution of the objective is higher.
- (4) Object to primary image distance: the distance between the object plane to the primary image plane. The conjugate distance is fixed.
- (5) Mechanical tube length: The distance between the objective shoulder and the ocular shoulder.



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4. TROUBLESHOOTING

Symptom	Cause	Remedy
Optics		
(1)The side of the field of view is dark or not even	The nosepiece is not in the right position	Turn the nosepiece into the right position
	Stain or dust has accumulated on the condenser, objective, eyepieces, base, lens	Clean the lens
(2)Stain or dust is observed in the field of view	Stains have accumulated on the specimen	Clean the specimen
	Stains have accumulated on the lens	Clean the lens
(3)Unclear image	No cover glass on the specimen slide	Add the cover glass
	The cover glass is not standard	Use a standard cover glass with thickness 0.17mm
	The specimen faces down	Make it face up
	The immersion oil has accumulated on the dry objective	Clean thoroughly
	The immersion oil is not used for oil objective 100XR	Use immersion oil
	Air bubble in the immersion	Get rid of the air bubble
	Use wrong immersion oil	Use a correct one
	The aperture is not opened to correct size	Adjust the iris diaphragm
	Stains or dust has accumulated on the lens in the inlet of the head	Clean lens
	The condenser is not in the right position	Adjust the condenser
4)One side of the field of view is dark or the image moves while focusing	The specimen slide is not fixed	Fix with clips
	The nosepiece is not in the right position	Turn the nosepiece into the right position
(5)The field of view is not bright enough	The iris diaphragm is not bigger enough	Adjust the iris diaphragm
	The condenser is not in the right position	Adjust the condenser
	Stain or dust has accumulated on the condenser, objective, eyepieces, base lens	Clean lens
(6)The image color is not true	No filter is used	Use correct filter

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4. TROUBLESHOOTING (CONT)

Symptom	Cause	Remedy
Optics		
(1) The image is not focused while using high power objective	The cover glass faces down	Put the cover glass to face up
	The cover glass is not standard	Use a standard cover glass with thickness 0.17mm
(2) The objective touches the cover glass when turning the nosepiece	The cover glass faces down	Put the cover glass to face up
	The cover glass is not standard	Use a standard cover glass with thickness 0.17mm
(3) Cannot move the slide smoothly	The slide is not fixed correctly	Adjust it correctly
	The movable specimen holder is not fixed properly	Tighten it
Electrics		
(1)The bulb does not work	No power supply	Check the connection of the power cable
	The bulb is not inserted correctly	Tighten it
	The bulb burnt out	Replace it
	The fuse burnt out	Replace it
(2)The bulb burnt out usually	The voltage is too high	Use correct power supply
	Use a wrong bulb	Replace with a correct one
(3)The fuse burnt out usually	The bulb will burn out soon	Replace with a new one
	The wire doesn't connect all right	Connect correctly