



MoticScope 1

Biological Microscope

Instruction Manual



Complete reading of this manual
before operation is required.



Note

If the equipment is used in a manner
not specified by the manufacturer,
the protection provided by the
equipment may be impaired.

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MOTIC CHINA GROUP CO., LTD.



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1. Safety Instructions

1.1 Safety Tips

Before using this product, please read the instruction manual carefully to ensure safe operation and optimal performance, and follow all precautions and warnings provided in the manual. Please familiarize yourself with the meanings of the following safety symbols:

Symbol	Description
	Caution: Hazard. Indicates that the instrument may cause personal injury or equipment damage.
	Caution: Hot Surface Hazard. Indicates that the surface of the instrument may present a risk of burns due to high temperature.
	Information and Tips. Indicates useful information and guidance.
	Recycling. Indicates that disposal of instrument waste must be carried out in strict compliance with applicable requirements.
	Caution: Electric Shock Hazard. Indicates the presence of potentially hazardous voltage/current in the instrument.

1.2 Safety Considerations

- This product is designed, manufactured, and inspected in accordance with the safety standards GB/T 42125.1-2024 and YY 0648-2008.
- This product complies with the emission and immunity requirements specified in IEC 61326, GB/T 18268.1, and GB/T 18268.26 series standards.
- Before using this product, assess the electromagnetic environment. Do not use it near strong sources of electromagnetic radiation, such as unshielded radio-frequency sources, as this may interfere with the normal operation of the equipment.
- This product is designed and tested as Class B equipment in accordance with GB 4824. In a domestic environment, the Product may cause radio interference and requires protection.
- Please use only the power cord specified by the manufacturer; otherwise, the safety performance of this product may be compromised.
- Connect the power cable properly, and ensure that the Product's grounding terminal is properly connected to the grounding terminal of the wall socket. Otherwise, the designed electrical safety performance of this product may be compromised.
- Any electronic equipment connected to this product must comply with the requirements of EN/IEC 62368 and other applicable local safety rules and standards.
- The characteristics of the biological microscope specified in the registered product standard are: Overvoltage Category II; Pollution Degree 2.

1.3 Transportation, Unpacking, and Storage

- In accordance with standard commercial practice, this product is transported in corrugated cartons with foam packaging. Please reuse the original packaging for any transportation.
- During transportation and storage, protective measures such as shielding from direct sunlight, keeping dry from rain, and preventing impact damage must be taken.
- When unpacking, please check all accessories against the packing list to confirm that everything is complete.
- For long-term storage or return to the factory, please use the original packaging to avoid voiding the warranty.

1.4 Operating Precautions



This product is a precision instrument. Improper handling or operation may impair its performance or cause damage to the instrument. To ensure stable and reliable operation, place the instrument on a firm, secure table or on a workbench equipped with vibration isolation.

When using this product, be sure to observe the following precautions at all times.

- This product may only be operated by trained personnel. The operator shall understand the hazards associated with biological microscope examination and its various related application fields.
- This product is not equipped with any special protective devices for corrosive, potentially infectious, toxic, radioactive, or other health-hazardous samples. When handling such tests, all legal requirements must be observed, especially those relating to accident prevention.
- Do not use this product in locations where the disconnect device (switch and power outlet) is difficult to operate.
- If it has been determined that the protective function has failed, stop using the product immediately and contact the Motic after-sales technical service department for repair.
- Please ensure that this product is placed on a non-metallic work surface so as not to affect its functional performance.



Before using immersion oil, be sure to read the following safety precautions carefully.

- Immersion oil may irritate the skin. Avoid contact with skin, eyes, and clothing.
- After skin contact, wash thoroughly with plenty of water and soap until the immersion oil has been completely removed from the skin.
- After eye contact, immediately flush the eyes with plenty of water for at least 5 minutes. If irritation persists,

- consult a physician.
- Dispose of immersion oil properly as waste, and do not allow it to enter surface water or drains.



For disposal, be sure to comply with local government laws and regulations.

1.5 Working Environment

Do not use the Product in a place with direct sunlight, high temperature and humidity, dust or vibration.

For indoor use:

- At an altitude of no more than 2,000 meters above sea level (for use above this altitude, correction factors shall be applied in accordance with national standards);
- Ambient temperature from +5 °C to +40 °C, with humidity from 30% to 75% (non-condensing);
- Power supply voltage fluctuation within $\pm 10\%$ of the rated voltage, and atmospheric pressure from 75 kPa to 106 kPa;
- During transportation and storage:
- Storage ambient temperature from -20 °C to +40 °C, with humidity from 10% to 90% (non-condensing).
- During transportation (in packaging), the permissible ambient temperature is from -40 °C to +55 °C, with humidity from 10% to 90% (non-condensing); protective measures such as shielding from direct sunlight, preventing rain exposure, and avoiding breakage must be taken. If you need to package this instrument for long-distance transportation, please contact the manufacturer (see the back cover) or your local distributor.

1.6 Quality Assurance

This product and its original accessories may only be used for the inspection operations described in this manual. Please note the following warranty information for this product:

- The manufacturer provides a warranty against material defects and product quality defects existing at the time of shipment.
- When unpacking, please check the completeness of the configuration against the packing list; if any defect is found, report it to the manufacturer immediately, and upon receipt of the report, the manufacturer shall promptly repair or replace the defective item.
- The manufacturer assumes no liability for equipment damage caused by improper operation or any use other than the intended use.
- The manufacturer does not provide warranty coverage for product failures or defects resulting from normal wear and tear (especially wear parts and consumables) or improper use.
- The manufacturer assumes no liability for damage to the instrument caused by operational errors,

negligence, or unauthorized disassembly, especially where the biological microscope has been disassembled or parts have been replaced, or where accessories from other manufacturers have been used.

- The manufacturer assumes no liability for any use other than the intended use, including the use of any individual components. This provision also applies to all after-sales service or repair work performed by personnel who are not authorized service providers. Failure to comply will result in the immediate voiding of all warranty rights.

Precautions:

- Production date: See the compliance certificate
- Warranty period for mechanical parts: 8 years
- Warranty period for electronic parts: 1 year

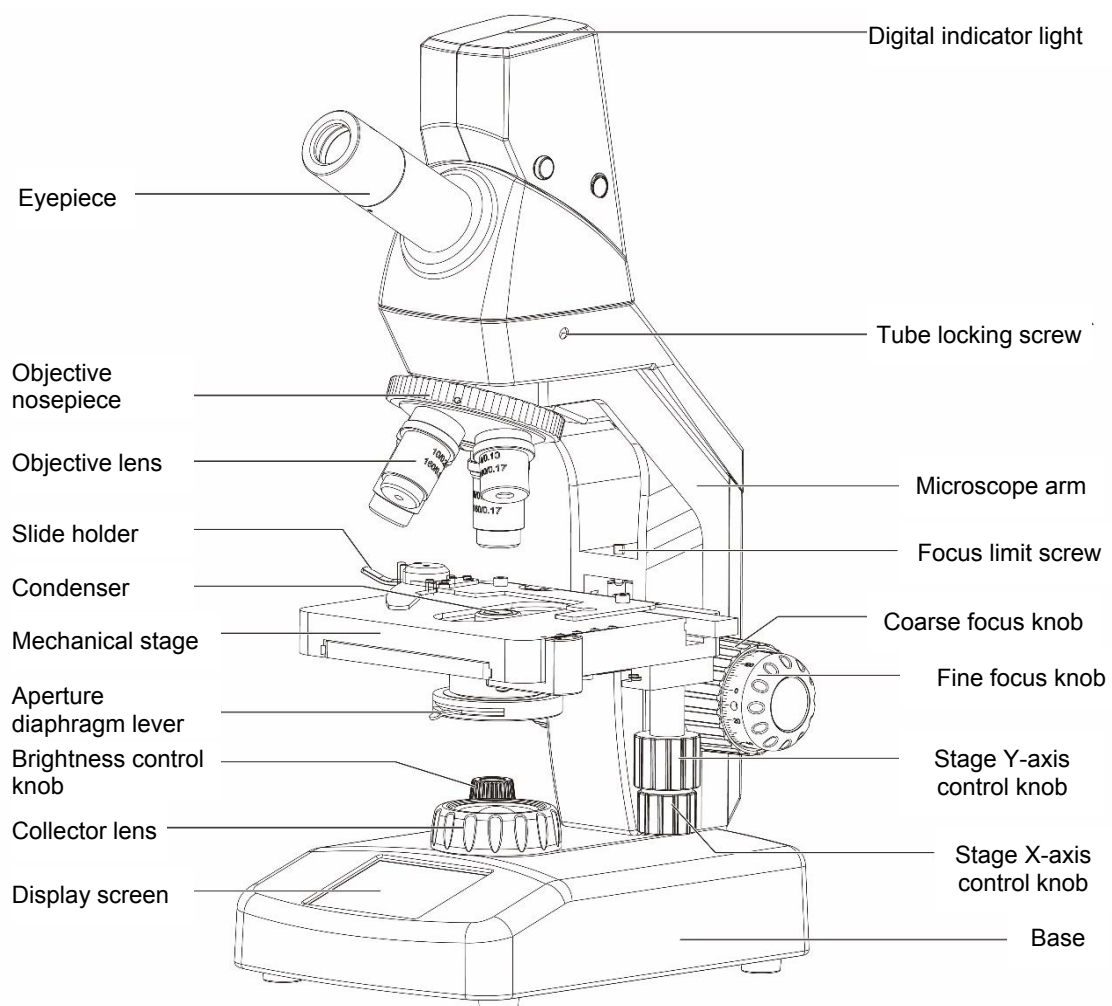
2. Product Overview

2.1 Intended Use

This product is an upright biological microscope for teaching purposes. It is used to magnify and observe specimens under visible light and is mainly intended for basic experimental teaching and routine laboratory testing. Digital models can be equipped with an external or built-in camera system, enabling functions such as image capture, video recording, and measurement through Motic image processing software.

2.2 Structural Composition

This product mainly consists of eyepieces, an observation head, an arm assembly (including the objective nosepiece and focusing mechanism), objective lenses, a stage, a condenser, and a base assembly (including the collector lens).



3. Product Operation

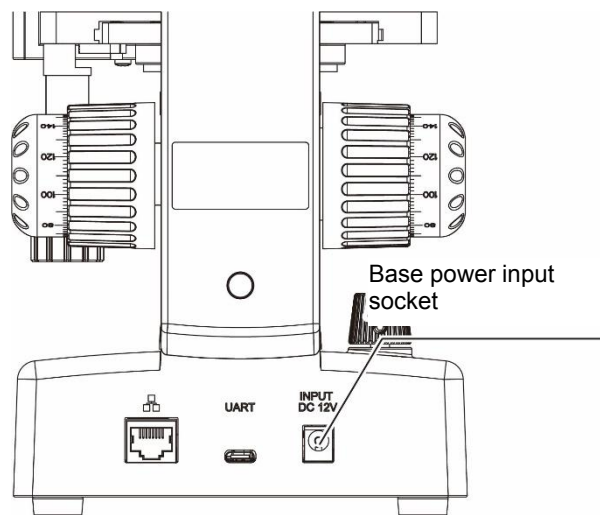
3.1 Check the Input Voltage

The input voltage range of the power adapter supplied with this product is AC 100-240 V, 50/60 Hz. The auto voltage selection device applies to the voltage worldwide, but it is recommended to choose the power cable that matches the rated voltage in your place. Misuse of power cable may result in fire hazard or instrument damage. To prevent electric shock, ensure the power switch is in the off position before connecting the power cable.

Electrical specifications:

Input: DC 12 V, 2.5 A

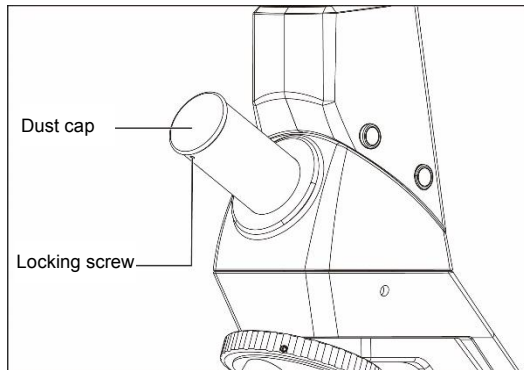
Light source: LED 0.5 W, MAX 150 mA



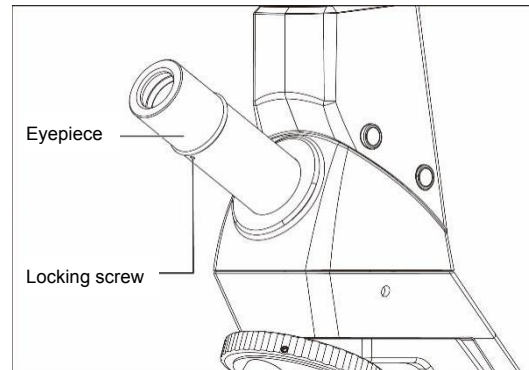
3.2 Installation Method

3.2.1 Eyepieces

- Use a T0.9 Allen wrench to loosen the eyepiece retaining screw, and remove the eyepiece dust cap. (Figure 1-1)
- Insert eyepieces of the same magnification into the eyepiece tubes, and tighten the eyepiece retaining screw. (Figure 1-2)



(Figure 1-1)



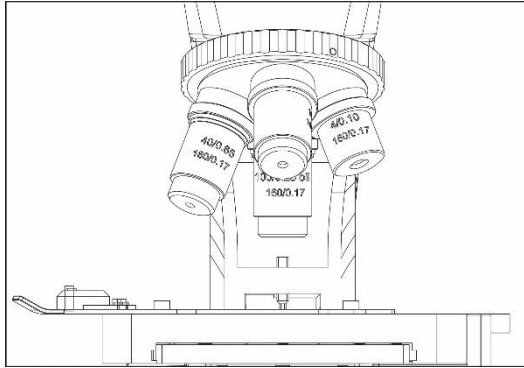
(Figure 1-2)

3.2.2 Observation Tube (Complete Digital Head)

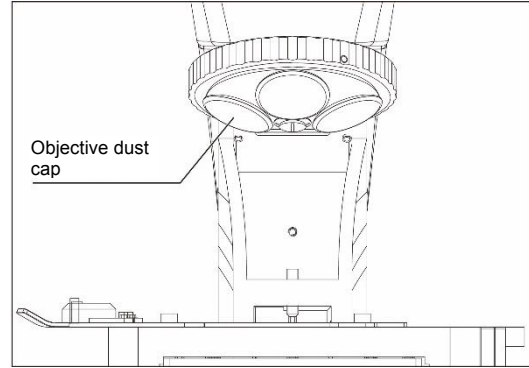
- There is a connecting cable between the digital observation tube and the arm. Please operate with care. If the observation tube needs to be replaced, please contact Motic after-sales service professionals to perform the operation.

3.2.3 Objective Lenses

- Before leaving the factory, the coded objective lenses have already been installed and adjusted.
- If the objective lenses need to be replaced, first lower the stage to its lowest position.
- Rotate the nosepiece clockwise and screw in the objective lenses one by one in ascending order of magnification. The corresponding objective port positions must match the objective magnifications shown on the display screen. (Figure 2-1)
- When the instrument will not be used for an extended period, remove the objective lenses for storage and screw in the objective dust caps. (Figure 2-2)



(Figure 2-1)



(Figure 2-2)

3.3 Routine Microscopic Operation

3.3.1 Power Switch

- After correctly connecting the power adapter and switching on the power supply, press the brightness control knob for 1 second and then release it to power on the unit. The display screen will play the startup animation, and after the startup animation ends, the system will enter the main interface. (Figure 3-1)
- The main interface displays the current power-on duration, brightness value, brightness adjustment bar, and objective magnification. (Figure 3-2)



(Figure 3-1)



(Figure 3-2)

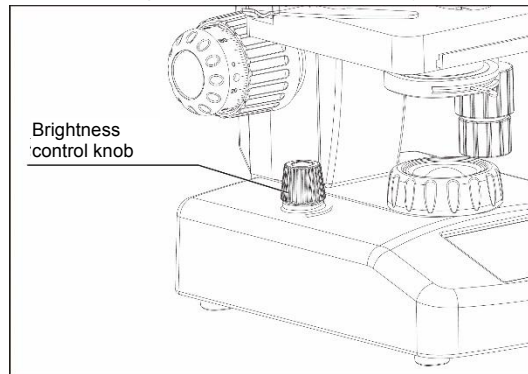
3.3.2 Handling and Placement of the Microscope

- When carrying the microscope, hold the arm with one hand and support the base with the other, keeping the instrument level (tilt $\leq 30^\circ$). Place it on the laboratory bench at an appropriate distance from the edge (approximately 7 cm), slightly to the left in front of your body.

3.3.3 Brightness Adjustment

- Turn the brightness control knob in the direction indicated by the printed mark in front of the knob to adjust to the required brightness. (Figure 4)

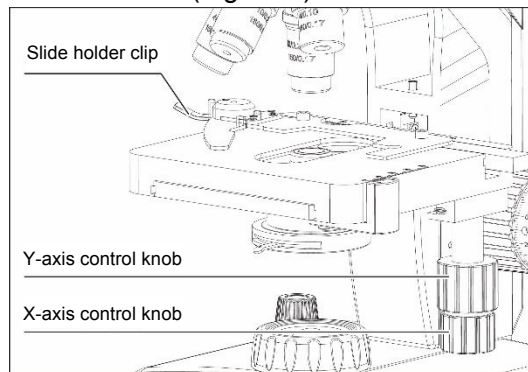
- The brightness adjustment bar at the bottom of the main interface also supports touch control for brightness adjustment.
- Before visual observation, set the illumination brightness to below 20% to avoid an excessively bright field of view when observing with a low-power objective lens.



(Figure 4)

3.3.4 Stage Adjustment

- Turn the coarse focus knob counterclockwise to lower the stage to its lowest position.
- Open the slide holder clip, place the specimen slide correctly on the stage, and secure it firmly.
- During observation, turn the X/Y control knobs to move the observation area of the specimen to the center position of the condenser. (Figure 5)



(Figure 5)

3.3.5 Objective Lens Switching

- When switching objective lenses, the display screen will show an animation of the currently selected objective, and the main interface will display the corresponding objective magnification.
- Before observation, the initial objective magnification is 4X. The objective lenses should be switched clockwise in order from low magnification to high magnification.



(Figure 6-1)



(Figure 6-2)

3.3.6 Focusing

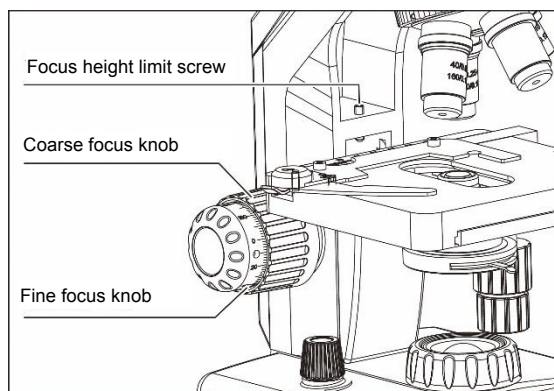


Do not attempt any of the following actions, otherwise the focusing mechanism may be damaged:

- Holding one focus knob tightly while turning only the knob on the other side.
- Turning the coarse focus knob or fine focus knob beyond its limit position.

The focus height limit of this product has been preset at the factory and may be adjusted if necessary.

- If the image still cannot be brought into focus when the focus mechanism reaches its highest point, the limit screw may be loosened and adjusted so that the specimen can still move upward by 1 mm when it is at the focal plane position. (Figure 7)



(Figure 7)

Swing the low-power objective into the optical path, and slowly turn the coarse focus knob clockwise until the outline of the specimen image comes into view.

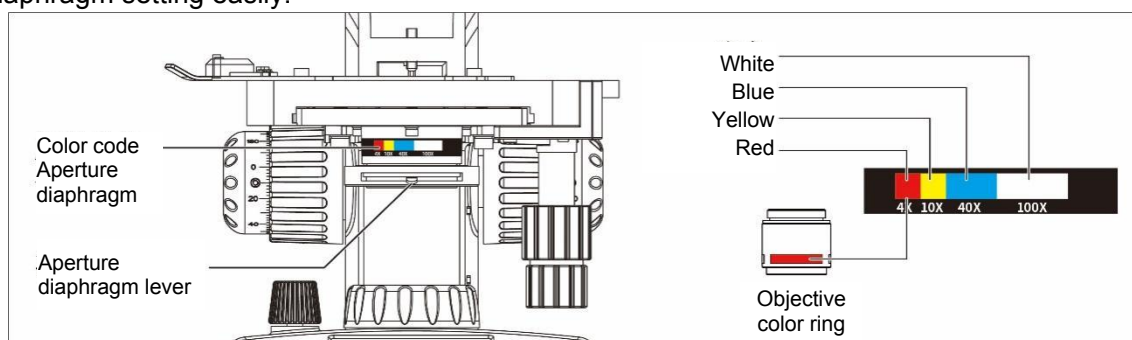
Swing the high-power objective into the optical path, and slowly turn the fine focus knob until the specimen image is brought into the sharpest focus, that is, until the image plane is in focus.

3.3.7 Condenser Adjustment

- Move the aperture diaphragm lever to adjust it so that it matches the numerical aperture of the objective lens and find the position that provides the best image contrast. If the specimen image appears too pale, slowly reduce the aperture of the iris diaphragm until the specimen image becomes clearly visible. If the specimen image appears too dark, the diaphragm may be opened gradually. (Figure 8)

Please note: the smaller the aperture of the iris diaphragm, the better the image contrast; the larger the aperture, the lower the contrast. (The purpose of the diaphragm is not to control the brightness of illumination.) The best procedure for setting the aperture is to first open it to the maximum and then slowly close it until the specimen is completely in focus. Using an incorrect aperture size may cause the image to appear washed out. Be careful not to reduce the aperture excessively in order to obtain higher contrast, as this may destroy the fine structural details of the specimen in the image.

Reducing the aperture increases contrast and depth of field, but it also lowers resolution and produces diffraction. For example, the aperture setting for a 10X objective is different from that for a 40X objective, because the angle of light required by the objective is determined by its N.A. value. After using the microscope for a short period, you will be able to find the appropriate aperture diaphragm setting easily.



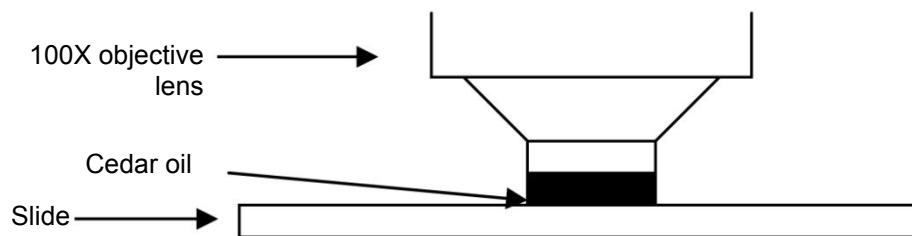
(Figure 8)

3.3.8 Oil-Immersion Objective Lens

⚠ When using an oil-immersion objective lens, note the following:

- The oil-immersion objective is marked with the word "Oil". During use, an appropriate amount of cedar oil must be applied between the cover glass and the front lens group of the objective.
- The cedar oil provided by Motic is a synthetic, non-fluorescent, resin-free oil with a refractive index of 1.515.

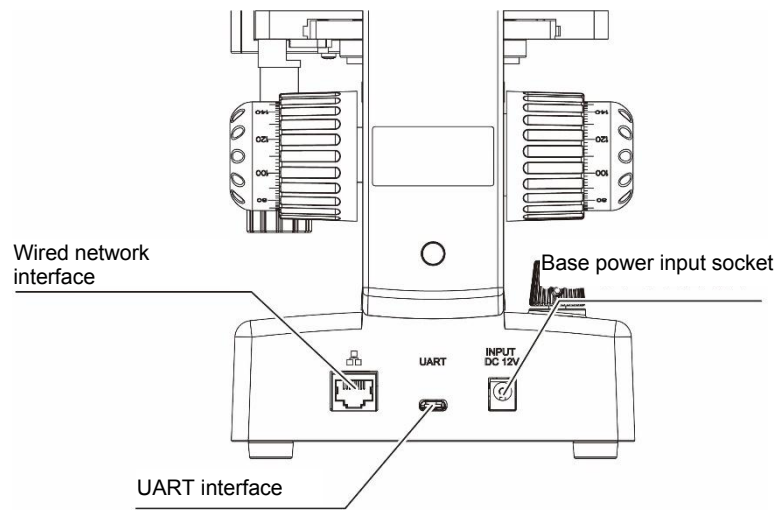
- Do not use a cover glass thicker than 0.17 mm, as the specimen will not fall within the working distance of the objective, which will affect image formation.
- Use as little immersion oil as possible. Any oil film remaining on the immersion objective, or any oil that spreads onto the surface of a dry objective, will have a significant negative effect on the image.
- Make sure there are no air bubbles in the immersion oil, as bubbles may reduce image quality.
- Please operate strictly according to the following steps:
- After focusing on the specimen with a low-power objective, rotate the oil-immersion objective into the observation position, remove the specimen, place a drop of immersion oil on the observation area of the specimen, reposition the specimen, and turn the fine focus knob to focus on the specimen. (Figure 9)
- Remove the eyepiece, and after safely opening the field diaphragm and aperture diaphragm, observe the objective exit pupil (the bright circular image) inside the observation tube to check for air bubbles.
- If air bubbles are found, they may be removed by rotating the nosepiece to swing the immersed objective gently from side to side, by adding more oil, or by wiping off the oil and applying fresh oil.
- After use, promptly and gently wipe the immersion oil from the front lens of the objective with gauze or lens paper moistened with absolute alcohol to prevent damage to the objective and to ensure a clear image the next time the objective is used.



(Figure 9)

3.3.9 Extended Interface Functions

- DC 12V general-purpose DC power interface, supporting DC 12V/2.5A input from a power adapter;
- UART general-purpose USB-C interface, supporting serial communication;
- LAN general-purpose wired network transmission interface, supporting wired network connection;



(Figure 10)

3.4 Digital Microscopy Operation

3.4.1 Using the Software

When using MotiScope 1 through a Wi-Fi device running Android or iOS:

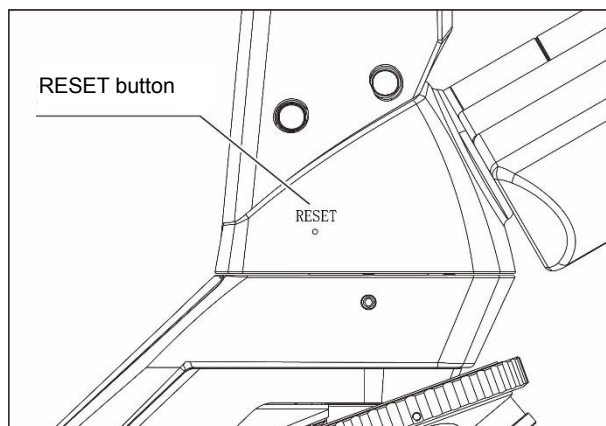
- For optimal performance, we recommend using a Wi-Fi device with a screen size of no less than 8.7 inches, such as a tablet. For iOS devices, we recommend iOS 16 or later; for Android devices, Android 13.0 or later is recommended.
- You can scan the following QR code with an Android or iOS Wi-Fi device to download and install the free MotiConnect application. For iOS Wi-Fi devices, you may also search for it in the App Store to download and install it.



- Connect your Android or iOS Wi-Fi device to the Wi-Fi network named SSID: MotiScope 1 (select the corresponding model)_XXXXXX. The default initial password is 12345678. After establishing a wireless connection with the microscope, open the MotiConnect software, tap the Settings icon in the upper-right corner, add a camera name under Camera, and enter the URL address: 192.168.1.151. After adding it, the image will be displayed.

3.4.2 Reset

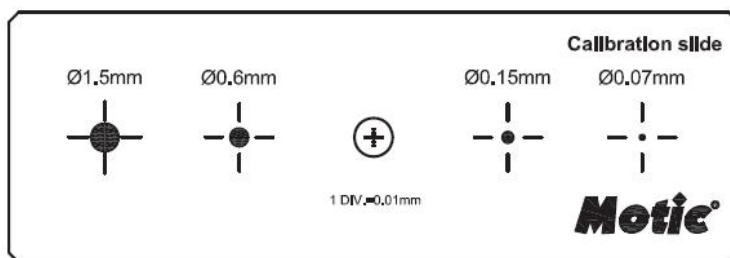
AM series models support a digital reset function. Use a 0.9 mm Allen wrench, a paper clip, or a similar tool to press and hold the “RESET” hole for 8 seconds to restore the built-in digital camera to its factory default settings.



(Figure 12)

3.4.3 Calibration

- Switch the objective lens to be calibrated into the optical path, place the four-point calibration slide (Figure 13) on the stage, and follow the routine microscopic operating procedure to bring the calibration point into focus, ensuring that the visual calibration circle is clearly and completely imaged within the field of view.
- Open the MotiConnect software and select the calibration button. In the pop-up window, click the calibration button, load the magnification of the target objective lens to be calibrated and the corresponding complete image of the standard circle. Please read the software manual carefully before operation.



(Figure 13)

4. Maintenance and Care

Proper maintenance and servicing will ensure the microscope remains in reliable operation for a long period without faults. If service is required, please contact your nearest Motic dealer or contact our technical service department directly.

4.1 Cleaning

Eyepieces may be cleaned in the same manner as objective lenses, and in most cases it is not necessary to use an optical cleaning agent. In most cases, breathing lightly onto the eyepiece will moisten it; then use clean lens tissue to wipe the lens dry and ensure a clean surface.



Notes:

- The mixture of absolute ethanol and ether is flammable. Do not use it in an environment with open flames;
- Do not touch the surface of optical components directly, so as to avoid contaminating the optical surfaces;
- Do not wipe a dry lens surface, otherwise the surface or the lens may be scratched;
- Do not use gauze or lens paper to wipe the same area repeatedly;
- After using cedar oil, clean the front lens group of the objective promptly, especially the 40x and 100x objectives;
- Do not disassemble the objective lens yourself. If internal repair or cleaning of the objective lens is required, please contact after-sales technical service personnel. This operation may only be performed by qualified and authorized technicians.

4.1.1 Optical Lens Surfaces

For cleaning optical lens surfaces and color filters, first use a rubber blower to remove surface dust. If any dirt still remains, remove it with soft, clean gauze or special optical lens paper.

- Immersion oil contamination on the objective lens may only be removed with gauze or lens paper moistened with an appropriate amount of a mixture of absolute ethanol and ether (in a 3:7 ratio).
- For lenses other than objective lenses, gauze or lens paper moistened with an appropriate amount of a mixture of absolute ethanol and ether (in a 3:7 ratio) may be used to remove fingerprints, grease, and other stains.

4.1.2 Surfaces of Painted Parts and Plastic Parts

- Do not use organic solvents (such as ethanol, ether, etc.) or their dilutions for cleaning. Otherwise, the paint layer may fade or peel off.
- The stubborn dirt can be wiped off by using gauze that is dipped in soft detergent.
- The surfaces of plastic parts may only be cleaned with a soft cloth moistened with clean water.

4.2 Storage

Precautions when this product is not in use or is being stored:

- When not in use, the power switch should be turned off or the power plug should be unplugged, and the instrument should be protected with a dust cover to reduce the effects of dust.
- For storage, the 360° rotatable head may be turned 180° to reduce the depth footprint.
- When storing models equipped with a mechanical stage, return the stage adjustment to the zero position to prevent damage from accidental impact.
- Please ensure that sufficient storage space is available to avoid compression that may affect product performance.
- Do not store this product near chemicals, so as to avoid the effects of chemical corrosion.
- If the product will not be used for a long time, remove the objective lenses, eyepieces, color filters, and similar components, place them in a container with desiccant, and fit the dust caps to prevent dust contamination.

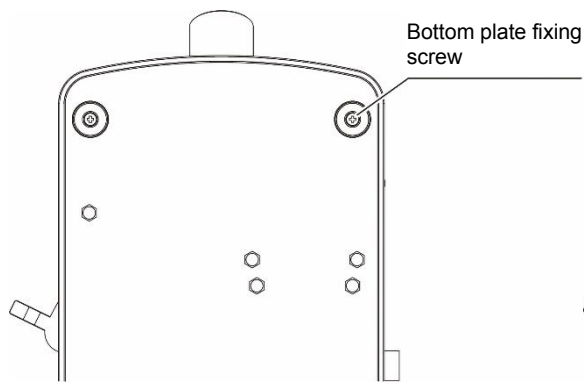
4.3 Lamp Replacement



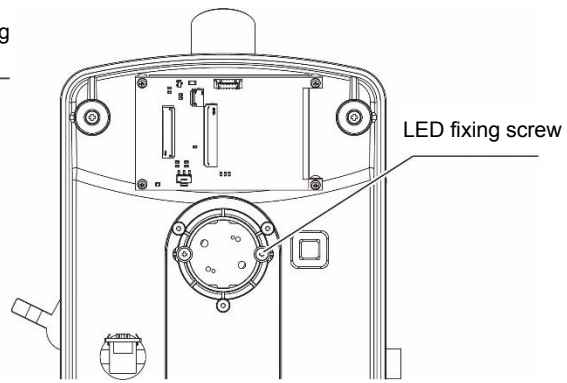
Before replacing the lamp or battery, make sure that the power switch is in the OFF position and unplug the power cord.

4.3.1 LED Lamp

- Use a Phillips screwdriver to loosen the four fixing screws at the foot pads of the bottom plate, and remove the bottom plate.
- Use a Phillips screwdriver to loosen the fixing screws of the collector lens LED lamp assembly, and remove the LED lamp assembly.
- Install the LED lamp assembly purchased from Motic (with the power connection wires soldered), fit it into the collector lens LED lamp holder, and then reinstall it by reversing the steps above.
- When replacing the lamp, note that the center of the LED lamp assembly should be adjusted as close as possible to the center of the collector lens and the center of the optical axis.
- Do not touch the surface of the LED chip directly with your hands, so as to avoid fingerprints, grease, and other contamination. If there is dirt on the surface of the LED chip, please clean it according to Section 4.1.



(Figure 14-1)



(Figure 14-2)

4.4 Maintenance Inspection

Maintenance interval for this product: inspect the equipment once a year. Based on the characteristics of the equipment, its service life, frequency of use, and failure rate, the responsible engineer shall submit a specific report and make timely adjustments accordingly.

- Appearance inspection: check whether any buttons, switches, or knobs on the equipment are loose or misaligned; whether the plugs and sockets show oxidation, corrosion, or poor contact; whether the power cord is aged; and whether all connecting cables are connected correctly.
- Cleaning and maintenance: Clean the equipment surface and internal electrical and mechanical parts; clean the equipment plugs and prevent poor contact; apply lubricant to the mechanical parts if necessary.
- Functional inspection: power on the equipment and check whether all indicator lights and indicators are functioning properly; enter each function setting mode, and by adjusting and setting the relevant switches and buttons, check whether all functions of the equipment are operating normally.
- Performance test and calibration: Check if the Product's output error exceeds the relevant standards, make necessary adjustment and calibration to the parameters which exceed the standard range, to ensure that the technical indexes conform to the standard, and guarantee the Product's quality.
- Security check: Including electrical security check and mechanical check.
 - ① Electrical security check: Check if the leading wires, plugs and connectors are damaged, and the grounding impedance and leakage current are within the standard range;
 - ② Mechanical check: Check if the mechanical components are loose and have normal rotation, and the connectors are loose, falling or cracked.
- Personnel training management: Organize technical training for operators regularly, to master the equipment basic structure, basic principle, performance and functions, learn the equipment daily maintenance method, master proper use method and operation procedure, master the measures and relevant precautions of instrument security, and keep training records.

Appendix 1 Troubleshooting Table

Troubleshoot product faults according to the table below. If you encounter a problem that cannot be resolved, please contact your nearest Motic dealer or contact our technical service department directly.

Optical Section

Fault	Cause	Solution
Dark edges in the field of view or uneven brightness across the field of view	The illumination device is not installed properly or is out of alignment	Check and install the illumination device correctly
	The aperture diaphragm is too small	Adjust the size of aperture diaphragm
	The revolving nosepiece is not at fixed position	Rotate the knob to the locating position
	The condenser position is too low	Adjust the condenser position
	The condenser and objective are mismatched	Match the numerical aperture
There is dirt in the field of view, and the image is unclear	The aperture diaphragm is opened too little	Adjust and enlarge the aperture diaphragm opening
	There is dirt on the slide surface	Clean the slide surface
	There is dirt on the optical surface	Clean the optical surface
	The condenser position is too low	Adjust the condenser position
Poor image quality (low resolution, poor contrast)	Brightness is too low or illumination is incorrect	Check and use the original factory lamp
	There is no cover glass, or the thickness is not standard	Use a specimen cover glass with a thickness of 0.17 mm
	The aperture diaphragm does not match the objective aperture	Adjust the size of aperture diaphragm
	The oil-immersion objective is used without oil, or there are air bubbles	Use the oil-immersion objective correctly
	There is grease on the eyepiece	Clean the eyepiece
Uneven parfocality (the	The slide specimen is not flat	Replace it with a specimen of

image plane is not flat)		better flatness
	The slide specimen is not positioned securely	Adjust the slide to ensure reliable positioning
	The slide holder is not securely positioned on the stage	Adjust the slide holder to ensure reliable positioning
	The stage surface is tilted	Report the issue to the technical service department for handling
The binocular images are not aligned	The interpupillary distance is not adjusted correctly	Adjust the interpupillary distance correctly
The eyes are overly fatigued	The diopter is not adjusted correctly	Adjust the diopter correctly
	The illumination brightness is not suitable	Adjust the illumination brightness
	Difference in the field of view between the left and right eyepieces	Use eyepieces with the same field of view
Out of focus after focusing	The stage drifts downward	Adjust the focus tension adjustment knob
When switching the objective from low magnification to high magnification, the high-power objective touches the slide	The specimen slide is inverted or the coverslip is too thick	Use a standard slide and place it correctly
	The diopter is not adjusted correctly	Adjust the diopter correctly
The image is not parfocal when switching objectives	The diopter is not adjusted correctly	Adjust the diopter correctly

Electrical Section

Fault	Cause	Solution
The illumination does not light up	The power is not connected	Check the power plug
	The power outlet is faulty	Replace the power outlet
	The bulb is not installed properly	Check and install the bulb properly
	The lamp is burned out	Replace the lamp
The illumination brightness is not suitable	The unauthorized bulb is used	Replace it with an authorized bulb
The lamp has burned out	The unauthorized bulb is used	Replace it with an authorized bulb
The illumination flickers	Poor contact at the connection position	Inspect and fasten the connection
	The lamp has reached the end of its service life	Replace it with a new one
	The lamp is not fully inserted into the socket	Check and install the bulb properly

Appendix 2 Technical Specifications Table

Optical system	Finite optical system with achromatic correction
Total magnification	40X-1000X
Eyepiece	10X/18
Observation tube	45° monocular inclined tube with built-in digital module (WiFi & UVC)
Achromatic objective lenses	4X/NA0.1/WD26.7 10X/NA0.25/WD5.4 40X/NA0.65/WD0.4 (spring-loaded) 100X/NA1.25/WD0.15 (spring-loaded, oil)
Camera pixels	8MP
Sensor size	1/2.8 inch IMX415
Resolution/frame rate	15 fps @ 3840 x 2160
	25 fps @ 1920 x 1080
Data stream protocol	MJPEG/H265
WiFi transmission	802.11ax
Menu	Brightness, objective recognition, WiFi 6
Interface	INPUT DC 12V × 1, UART × 1 (UVC), LAN × 1

Appendix 3 Product Configuration Table

Item Name		MoticScope 1	Single-unit quota
Arm Assembly	Frame Assembly (Coaxial Coarse/Fine Focusing, Four-Position Coded Nosepiece, Including Auxiliary Objective)	●	1
Observation head	Monocular digital head (WiFi 6)	●	1
Base assembly	Base assembly (2.8-inch color LCD touchscreen, 0.5 W full-spectrum LED, digital dimming)	●	1
Stage	Mechanical type (N.A. 1.25 condenser + variable aperture diaphragm)	●	1
Eyepiece	WF 10X/18	●	1
Objective lens	195B 4X achromatic objective	●	1
	195B 10X achromatic objective	●	1
	195B 40X achromatic objective	●	1
	195B 100X achromatic objective	○	1
Switching power supply (12 V / 2.5 A, black interchangeable main unit) (optimized conduction) (including four country plugs)		●	1
Allen wrench	0.9mm	●	1
	2.0 mm	●	1
Dust cover	Polyester_360*480	●	1
Objective dust cap	WJ4/5 *1/36 (RoHS)	●	4
Calibration plate	Four-point calibration	●	1
User Manual	MoticScope 1 Biological Examination Microscope_English_V1 (RoHS)	●	1
Software_MotiConnect		Download Online	1



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Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress, without notice and without obligation.



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(MoticScope 1)

FCC warning statements:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.