

Accessories Series

INSTRUCTION MANUAL

Model
CL-14

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1. Warning

This microscope is a scientific precision instrument designed to last for many years with a minimum of maintenance. It is built to high optical and mechanical standards and to withstand daily use. We remind you that this manual contains important information on safety and maintenance, and that it must therefore be made accessible to the instrument users. We decline any responsibility deriving from incorrect instrument use that does not comply with this manual.

2. Symbols and conventions

The following chart is an illustrated glossary of the symbols that are used in this manual.



CAUTION

This symbol indicates a potential risk and alerts you to proceed with caution.



ELECTRICAL SHOCK

This symbol indicates a risk of electrical shock.

3. Safety Information



Avoiding Electrical Shock

Before plugging in the power supply, make sure that the supplying voltage of your region matches with the operation voltage of the equipment and that the lamp switch is in off position. Users should observe all safety regulations of the region. The equipment has acquired the CE safety label. However, users have full responsibility to use this equipment safely. Please follow the guidelines below, and read this manual in its entirety to ensure safe operation of the unit.

4. Intended use

For research and teaching use only. Not intended for any animal or human therapeutic or diagnostic use.

5. Overview



6. Unpacking

Extract the illuminator from its packaging. Keep it away from thinners, chemical vapors and excessive moisture. Avoid high temperature environments, the direct sun light and excessive vibrations, which could affect the performance of the instrument.

Operating environment

Temperature: 10 - 36°C (50 – 96.8°F)

Relative humidity: 0 – 85% up to 30°C (86°F)

7. Assembling

Installing the illuminator

Screw the fixing ring on the bottom of the Stereo head (Fig.1).

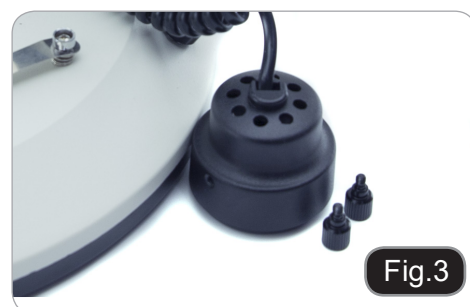
- ▶ **The illuminator can be used on the following instruments series: SZN, SZM, LAB.**



Place the illuminator on the fixing ring, using the three locking screws (Fig.4).

- ▶ **When installing on LAB-series: remove the reflected light illuminator before installing the round light illuminator (Fig. 2-3).**

Connect the power supply to the wall socket (Fig.5)



The power supply should be used only on network sockets equipped with adequate grounding.

8. Using the illuminator

Avoid disassembling the instrument

Do not disassemble the instrument. This entails the cancellation of the warranty and may cause malfunction.

- Use ON/OFF switch ① to turn the LEDs on.
- Use the knob ② to adjust the light intensity (Fig.6).



Always disconnect the power supply from the illuminator when not in use for long time, while you clean it or when you perform any maintenance.

9. Maintenance

Microscopy environment

This microscope is recommended to be used in a clean, dry and shock free environment with a temperature of 5°-40°C and a maximum relative humidity of 75 % (non condensing). Use a dehumidifier if needed.

To think about when and after using the microscope



- The microscope should always be kept vertically when moving it and be careful so that no moving parts, such as the eyepieces, fall out.
- Never mishandle or impose unnecessary force on the microscope.
- Never attempt to service the microscope yourself.
- After use, turn off the light immediately, cover the microscope with the included dust-cover, and keep it in a dry and clean place.

Electrical safety precautions



- Before plugging in the power supply, make sure that the supplying voltage of your region matches with the operation voltage of the equipment and that the lamp switch is in off-position.
- Users should observe all safety regulations of the region. The equipment has acquired the CE safety label. However, users do have full responsibility to use this equipment safely.

Cleaning the optics

- If the optical parts need to be cleaned try first to: use compressed air.
- If that is not sufficient: use a soft lint-free piece of cloth with water and a mild detergent.
- And as a final option: use the piece of cloth moistened with a 3:7 mixture of ethanol and ether.
Note: ethanol and ether are highly flammable liquids. Do not use them near a heat source, near sparks or near electric equipment. Use these chemicals in a well ventilated room.
- Remember to never wipe the surface of any optical items with your hands. Fingerprints can damage the optics.
- Do not disassemble objectives or eyepieces in attempt to clean them.

For the best results, use the OPTIKA cleaning kit (see catalogue).

If you need to send the microscope to Optika for maintenance, please use the original packaging.

10. Troubleshooting

Review the information in the table below to troubleshoot operating problems.

PROBLEM	CAUSE	SOLUTION
1. Optical System		
LED does not light.	Power cord is unplugged.	Plug power cord into the power outlet.
	The main switch is on "O" position	Set main switch on "I" position.
Light too dim on the sample	Intensity set too low.	Adjust the intensity knob.

Equipment disposal

Art.13 Dlsg 25 July 2005 N°151. "According to directives 2002/95/EC, 2002/96/EC and 2003/108/EC relating to the reduction in the use of hazardous substances in electrical and electronic equipment and waste disposal."



The basket symbol on equipment or on its box indicates that the product at the end of its useful life should be collected separately from other waste.

The separate collection of this equipment at the end of its lifetime is organized and managed by the producer. The user will have to contact the manufacturer and follow the rules that he adopted for end-of-life equipment collection.

The collection of the equipment for recycling, treatment and environmentally compatible disposal, helps to prevent possible adverse effects on the environment and health and promotes reuse and/or recycling of materials of the equipment.

Improper disposal of the product involves the application of administrative penalties as provided by the laws in force.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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