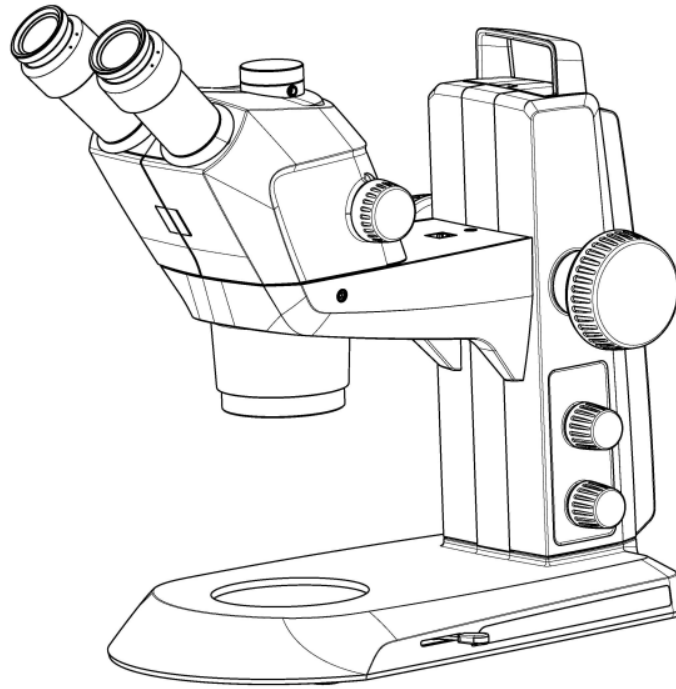


# Stemi 305 Cam



**Operating manual**  
**Bedienungsanleitung**  
**Mode d'emploi**  
**Instrucciones de manejo**  
**Manual de instruções**  
**Инструкция по применению**  
**操作手册**  
**المستخدم دليل**



## 1 NOTES ON INSTRUMENT SAFETY

### 1.1 General safety notes

Please read this Operating Manual carefully before starting up the microscope.

If you need supplementary information, contact our Carl Zeiss Service or an authorized agency.

To ensure safe operation and troublefree function of the microscope, strictly observe the precautions and warnings given in this manual.

These are marked herein as follows:

**CAUTION**

This symbol indicates a possible hazard to the user of the instrument.

**CAUTION**

Hot surface!

**CAUTION: LED radiation**

LED class 3B, max. 60 mW, 365 – 625 nm

Do not expose yourself to the beam. Avoid radiation exposure to the skin!

**ATTENTION**

This symbol indicates a possible hazard to the instrument or system.

**ATTENTION**

Disconnect the plug-in power unit from line power before opening the microscope!

**NOTE**

This symbol refers you to advice that you must observe under all circumstances.




## 1.2 Instrument safety and EMC

The Stemi 305 microscope has been designed, produced and tested in compliance with IEC 60950-1: 2005 (2nd Edition) and EN 60950-1:2006 Information technology equipment – Safety –Part 1: General requirements

EN 300 328 :Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

the standards DIN EN 61010-1 (IEC 61010-1) and IEC 61010-2-101 "Safety Requirements for Electrical Measuring, Control and Laboratory Instruments".

The Stemi 305 microscope meets the requirements of EU directive 98/79/EC Appendix 1 and carries the  mark.

Radio interference suppression in compliance with EN 55011 Class A

Noise immunity in compliance with DIN EN 61326-1

The device must be disposed of in accordance with WEEE Directive 2012/19/EU.



### 1.3 Unpacking, transportation, storage

Please observe the following safety notes for unpacking, transportation and storage of the microscope:

- The microscope is supplied packed to commercial standards in a plastic case with cardboard packaging; use the original packaging only for any transportation.
- Retain the original packaging for longer storage or return to the manufacturer.
- When unpacking the equipment, verify that all parts specified on the delivery note are present.



- Keep transportation and storage temperatures as specified in Technical Data.
- Set up the microscope on a stable worktable with solid and smooth tabletop.
- Do not touch optical surfaces to avoid fingerprints.



Risk of burns due to hot surface on the underside of the microscope during operation and up to 10 minutes after power off.

### 1.4 Disposal

Please observe the following safety notes for the disposal of the microscope:



Defective microscopes should not be disposed of with household waste; dispose of them in compliance with the provisions of the law.



The manufacturer of the device is under the legal obligation to take back defective devices.



Batteries of the battery supply unit should not be disposed of with household waste; dispose of them in compliance with the provisions of the law.





## 1.5 Use

The microscope and its original accessories may be used only for the microscopy procedures described in this operating manual.

Please observe the following safety notes when using the microscopes:



The manufacturer cannot assume any liability for other applications, including those of individual modules or single components. This also applies to any service or repair work that is not carried out by authorized service personnel. In case of non-compliance, all warranty claims shall be forfeited.



Opening of the device is only allowed to accordingly instructed specialists or to the Service staff.



Do not operate the instrument, including standard-supplied accessories, in an explosive atmosphere, in the presence of such volatile anaesthetics or flammable solvents as alcohol, gasoline or similar substances.



Dirt and dust may impair the performance of the devices. They must therefore be protected from such influences to the greatest possible extent and covered with the dust cover when not in use. Always check whether the devices are switched off before you cover them (blue power-on light is off).



The device may only be operated by trained personnel who are aware of the possible dangers involved with microscopy and the particular application. The microscope may only be operated on a stable, solid, smooth and flame resistant surface.



The microscope is a high-precision instrument that can be impaired in its performance or even be destroyed when handled improperly.



The microscope is equipped with a plug-in power unit allowing line voltages to be used in the range between 100 and 240 V  $\pm 10$  %, 50 / 60 Hz, without any need for changing the voltage setting on the instrument.



The plug-in power unit meets the requirements of protection class II (with protective insulation). If its casing is damaged, put the plug-in power unit out of operation. The microscope may be operated only with the supplied plug-in power unit.



If it is noted that protection measures are no longer effective, the instrument must be switched off and safeguarded against inadvertent operation. Please contact a Zeiss service agency or the Carl Zeiss Microscopy Service to repair the instrument.



- Always disconnect the power cable before opening the instrument and changing the lamp or LED.



- Wait for the lamp to cool down before replacing it and do not touch the new bulb to avoid fingerprints.



- The instrument may be opened by accordingly instructed specialists or service staff only.
- The operation of the instrument in explosion-risk environments is not allowed.



When using immersion oil, read in any case the safety data sheet.



Immersion oil irritates the skin. Avoid any contact with skin, eyes and clothing.



After skin contact, wash the oil off with plenty of water and soap.

After eye contact, immediately rinse the eye with plenty of water for at least five minutes.

If the irritation persists, consult a medical specialist.

Proper disposal of immersion oil: Take care to ensure that immersion oil does not enter surface water or the sewage system.



The microscope is not equipped with special devices for the protection from substances that are corrosive, potentially infectious, toxic, radioactive, or other substances that might be hazardous to health. Make sure to observe all legal regulations, particularly the relevant national accident prevention regulations when handling such substances.



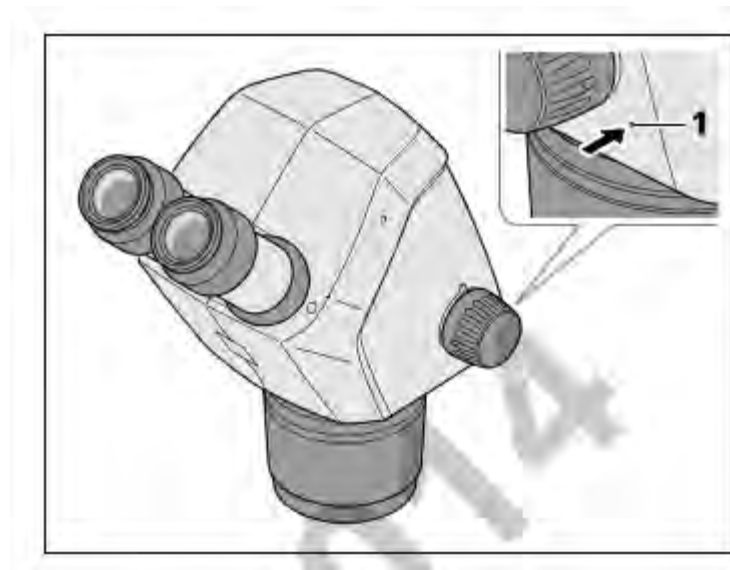
- Before any transportation of the instrument, switch it off and let it cool down (hot surface on the underside of the instrument).



- Operate the device only on a hard, non-combustible base.
- The plug-in power unit must not get in contact with moisture.



## 2. integrated Camera



### 2.1 Reset function

Press the reset button (image xxx) using paper clip or similar, the camera is setting back to factory setting.

### 2.2 Integrate the camera into the network

The zoombody with integrated camera has a Wifi port for communication and image data transfer.

Integrate the camera into the network via the Wifi port.



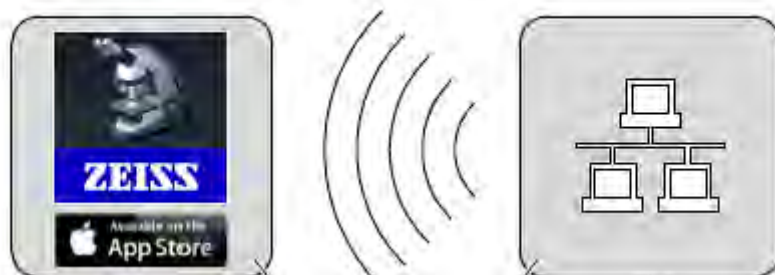
The integrated WLAN router within the built-in camera together with the ZEISS Labscope app let the camera work. Existing WLAN infrastructure may be used<sup>1</sup> or a separate microscope WLAN set up<sup>2</sup>.

The integrated camera will identify itself automatically to the network (Fig. 11/3)) and will be automatically recognized by Labscope, provided the iPad (Fig. 11/4) is in the same network.



Consult your network administrator for further guidance.





Further information on the Labscope app can be found at [www.zeiss.com/labscope](http://www.zeiss.com/labscope).  
For an overview of all ZEISS Microscopy apps visit [www.zeiss.com/micro-apps](http://www.zeiss.com/micro-apps).



The images transmitted from the integrated camera may not be used for training and research.

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### 3. Appendix

#### Ambient conditions

Transportation (in packaging): Permissible ambient temperature	-40 °C to +70 °C
Storage: Permissible ambient temperature Permissible air humidity (no condensation)	+10 °C to +40 °C max. 75 % at 35 °C
Operation: Permissible ambient temperature Permissible air humidity (no condensation) Atmospheric pressure Operating altitude Degree of pollution	+10 °C to +40 °C max. 75 % at 35 °C 800 hPa to 1060 hPa max. 2000 m 2

#### Operating data

Protection class	II
Protection type	IP20
Electrical safety	in compliance with DIN EN 61010-1 (IEC 61010-1) including CSA and UL directives
Pollution degree	2
Overvoltage category	II
Radio interference suppression	in accordance with EN 61326
Line voltage	100 to 240 V ( $\pm 10$ %) wide-range input power supply, i.e. voltage setting of the instrument need not be changed!
Line frequency	50 / 60 Hz
Power consumption	70 VA; secondary voltage of external power supply 12 V
Plug-in power unit output	12 V DC; max. 2.5 A
Microscope 12 V / 6 V DC	adjustable from 1.5 V to 6 V
LED class of complete device	3B

Motic China Group Co., Ltd

MOTIC BLDG, TORCH HI-TECH INDUSTRIAL DEV ZONE  
XIAMEN FUJIAN,361006,CN

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 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.