



INSTRUCTIONS

DP80

MICROSCOPE DIGITAL CAMERA

This instruction manual is for the Olympus microscope digital camera DP80. To ensure the safety, obtain optimum performance and familiarize yourself fully with the use of this camera, we recommend that you study this manual thoroughly before operating the camera.

For image operations including recording, editing and saving, please refer to the online manual for the cellSens Software.

Retain this instruction manual in an easily accessible place near the work desk for future reference.

Optical Microscope Accessory



AX8219

This product is applied with the requirements of standard IEC/EN61326-1 concerning electromagnetic compatibility.

- Immunity Applied to industrial and basic environment requirements.



In accordance with European Directive on Waste Electrical and Electronic Equipment, this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately.

Refer to your local Olympus distributor in EU for return and/or collection systems available in your country.

NOTE: This product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

For Korea only

B급 기기 (가정용 방송통신기자재)

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

IMPORTANT – Be sure to read this section for safe use of the equipment. – 1-16

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IMPORTANT

The microscope digital camera DP80 is designed to be connected to a camera adapter mounted on an Olympus UIS2/UIS series of optical microscope (not applicable to the LB series) for use in recording of microscopic magnified images at high speed and highest resolution while maintaining high picture quality and high color reproduction. The DP80 incorporates a variety of functions for supporting image recording under optimum conditions.

When the microscope digital camera DP80 is used with a camera adapter or a microscope from a manufacturer other than Olympus, the optical performance may not be manifested fully.

If the equipment is used in a manner not specified by this manual, the safety of the user may be endangered. In addition, the equipment may also be damaged. Always use the equipment as outlined in this instruction manual.

The following symbols are used to set off text in this instruction manual.

CAUTION

: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or damage to the equipment or other property. It may also be used to alert against unsafe practices.

©

: Indicates commentary (for ease of operation and maintenance).

Caution on Image Data Storage

The recorded image data may be lost (destroyed) in the following cases. Note that Olympus will not assume any liabilities for the loss (destruction) of recorded data. The image data may also be destroyed by an unexpected cause. It is recommended to back up the data periodically.

- When the user or a third party services repairs the equipment.
- When the PC is shut down, the AC adapter is disconnected or the power cord is unplugged during recording or erasure (formatting) of the PC.
- In case when continuing to save the data for the period exceeding the life time of data storage of USB memory, (approx. 1 to several years).
- When the equipment fails.

Please note if following cases may occur though the camera is working properly, the image restoration or the compensation for damages are not guaranteed.

- The image is abnormal.
 - File properties e.g. file names, file time, etc. are abnormal.
 - The image is lost.
- ◎ In general, as the data retention lifetime is set in the electronic memory media, e.g. USB memory, HDD, CD-R, DVD-R, etc., the saved files may be lost after several years.
- ◎ The image data may disappear (be destroyed) unexpectedly. Be sure to backup the data on regular base.
- ◎ Make sure that there is no problem when acquiring the subjects before acquisition. Please note that even though the problem may occur caused by the acquired images, Olympus will not be responsible for these problems.



SAFETY PRECAUTIONS

Safety Symbols

The following symbols are found on the microscope. Study the meaning of the symbols and always use the equipment in the safest possible manner.

Symbol	Explanation
	Indicates a non-specific general hazard. Follow the description given after this symbol or in the instruction manual.

Caution labels

Caution labels are placed at parts where special precaution is required when handling and using the microscope. Always pay attentions to the caution labels.

Positions of caution labels	Rear of the camera head	
	PCIe interface board	

If the caution label becomes dirty or is peeled off, contact Olympus for replacement.

CAUTION Never connect or disconnect the interface cable while the standby switch  of the PC is set to ON. Otherwise, malfunction may result.

1. Before connecting or disconnecting the interface cable, make sure that the standby switch  of the PC is set to OFF. When connecting the interface cable, push in the connector all the way and ensure that the connector will not slip out before setting the standby switch  to ON. Do not move the PC or apply an impact to it while it is powered ON.
2. The cords and interface cables are vulnerable to bends or twists. Do not apply excessive force to them.
3. To prevent the microscope from toppling down, avoid using microscope attachments that may make the total height of the microscope above 1 meter when they are attached.
4. When installing the PCIe interface board, be sure to hold it by the edge. Never touch the board surface directly, as this will lead to malfunction.

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