

# **OLYMPUS**

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## Instruction manual

# **DP23 / DP28**

## Microscope Digital Camera

Optical Microscope Accessory

English

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### **About the DP23 / DP28 camera**

The DP23 / DP28 cameras are CMOS color cameras with a high frame rate. They were specially developed to acquire images from light microscopes. The cameras can be connected to all common types of light microscopes by a C-mount.

### **About this instruction manual**

This instruction manual applies to the DP23 and DP28 microscope digital cameras.

Information about the operation of the microscope, computer or software can be found in the instruction manuals for the corresponding device or software.

### **Trademark**

Microsoft and Windows are registered trademarks of Microsoft Corporation, USA. All other brand names and product names mentioned in this manual are registered trademarks or trademarks of their respective owners.

# 1 Safety

The camera has been developed and produced in conformity with recognized safety regulations. However, it is not possible to entirely rule out possible hazards for the user, damage to the camera or microscope, or impairments of the camera's functionality. For this reason, always read and follow the general safety instructions and warnings before and during installation.

## 1.1 Intended use

This camera is intended to be used for the acquisition of digital images, but not for medical diagnostic purposes.

## 1.2 Avoiding personal injury and device damage

### **WARNING - Avoiding personal injury**

#### **Electric shock due to damaged cable**

When a cable is frayed or damaged, a person touching it risks receiving an electric shock. Shut off the hardware and replace the cable immediately.

#### **Poisoning due to toxic gases**

In the event of a fire, the material of the camera can give off toxic gases. When these are inhaled, it can cause irritation or damage to the respiratory tract. Wear respiratory protection when fighting the fire.

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** CAUTION - Avoiding personal injury****Tripping hazard**

Cables laid across a room can be a dangerous tripping hazard. This can cause injuries to people and damage to equipment. Wherever possible, lay cables along the wall or behind furniture. Fix and label cables that run across the room.

**ATTENTION - Avoiding device damage****Never open the camera**

The camera's CMOS chip is extremely sensitive. Electrostatic discharge can permanently damage the camera. Therefore, never open the camera housing.

**Use only the supplied USB camera cable**

Operate the camera only with the supplied USB camera cable. Only then will the functionality of the camera and compliance with the EMC basic standards be ensured.

**Don't touch the protective glass**

The protective glass over the CMOS chip is extremely sensitive and must not come into contact with bare hands or any other objects, otherwise the acquired images will be impaired by fingerprints or scratches.

### **Avoid vibration shocks**

Mechanical shocks and strong vibrations can damage the camera. Don't drop the camera during assembly. Make sure the camera is securely mounted on the microscope. When the camera is not in use, store it in a safe place.

### **Comply with operating and storage conditions**

Exposure to high temperatures or humidity can damage component parts of the camera. Always observe the operating and storage conditions (see page 12).

## **1.3 Explanation of the symbols used**



**WARNING**

Indicates a potentially hazardous situation which, if not avoided, may result in major injury.



**CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**ATTENTION**

Indicates a situation which, if not avoided, may damage the equipment or other property.

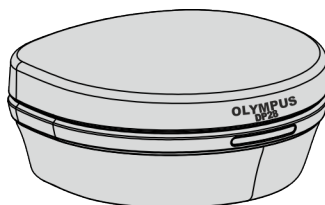
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## 2 The DP23 / DP28 camera

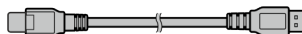
### 2.1 Scope of supply

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Camera



USB camera cable



Safety and warning information



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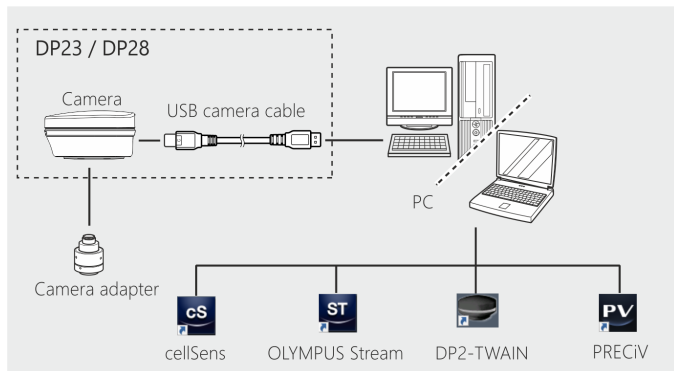
A printed copy of the safety and warning information are supplied with the camera. The complete instruction manual is available for download. You can download the manual from the following web pages

<https://www.olympus-lifescience.com/support/instruction-manual-downloads/>

<https://www.olympus-ims.com/user-manuals/>

## 2.2 System diagram

To use the camera with a light microscope, you need suitable software and a computer as well as a monitor. For the recommended computer and monitor configuration, refer to page 14.



You can use the following Evident software applications:

| Software application |   | Minimum version |
|----------------------|---|-----------------|
| cellSens             | Life science image analysis software                                      | 3.1.1.          |
| OLYMPUS Stream       | Materials solutions image analysis software                               | 2.4.4.          |
| PRECIV               | Image and measurement software  | 1.1             |
| DP2-TWAIN            | Free image acquisition software   | 9.1             |
|                      | DP2-TWAIN is available only as a download from the Evident Internet site. |                 |

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### DP23/ DP28/ with DP2-AOU

Alternatively, Evident provides a special control unit, DP2-AOU, for DP23 / DP28. DP2-AOU replaces a computer. The software for controlling DP23 / DP28 is pre-installed on DP2-AOU.

## 2.3 LED status indication

A blue LED is located on the front of the camera. After starting the software, the LED indicates the following statuses:

| LED                             | Status   |
|---------------------------------|--|
| The LED flashes.                | The camera is being initialized.                                 |
| The LED flashes continuously.   | There is a camera error. Contact Customer Service (see page 26). |
| The LED lights up continuously. | The camera is ready.   |
| The LED doesn't light up.       | The camera is not connected to the computer or DP2-AOU port.     |
|                                 | The camera is not connected to the USB 3.1 port.                 |

## 2.4 Specifications

The DP23 / DP28 cameras are CMOS color cameras with a high frame rate. They were specially developed to acquire images from light microscopes. The cameras can be connected to all common types of light microscopes by a C-mount adapter.

### Specifications - DP23

|                               |   |
|-------------------------------|---|
| Chip type                     | C-mount CMOS camera   |
| Chip size                     | 1/1.8 Inch  |
| Recording area                | 7.41 mm x 4.98 mm<br>8.92 mm diagonal   |
| Maximum resolution            | 3088 x 2076 pixels<br>6.41 million pixels   |
| Camera port of the microscope | C-Mount   |
| Input / output                | On the camera: USB 3.1 type C (with lock screws)<br>On the computer or DP2-AOU : USB 3.1 type A |

| Resolution   |                  | Frame rate* | Exposure time     |
|--|------------------|-------------|-------------------|
| 3088 x 2076  | Full resolution  | 45 fps      | 13 $\mu$ s - 15 s |
| 2072 x 2072  | Square           | 59 fps      |                   |
| 1544 x 1038  | High speed       | 59 fps      |                   |
| 1544 x 1038  | High sensitivity | 59 fps      |                   |
| 1920 x 1080  | Full HD          | 60 fps      |                   |
| * The maximum achievable frame rate is listed. The frame rate depends, among other things, on the computer being used. |                  |             |                   |

## Specifications - DP28

|                               |   |
|-------------------------------|---|
| Chip type                     | C-mount CMOS camera   |
| Chip size                     | 1 Inch  |
| Recording area                | 14.158 mm x 7.5 mm<br>16.02 mm diagonal   |
| Maximum resolution            | 4104 x 2174 pixels<br>8.92 million pixels   |
| Camera port of the microscope | C-Mount   |
| Input / output                | On the camera: USB 3.1 type C (with lock screws)<br>On the computer or DP2-AOU : USB 3.1 type A |

| Resolution  |                  | Frame rate* | Exposure time     |
|-------------|------------------|-------------|-------------------|
| 4104 x 2174 | Full resolution  | 32 fps      | 27 $\mu$ s - 15 s |
| 2168 x 2168 | Square           | 33 fps      |                   |
| 2052 x 1086 | High speed       | 64 fps      |                   |
| 2052 x 1086 | High sensitivity | 32 fps      |                   |
| 3840 x 2160 | 4K               | 33 fps      |                   |
| 1920 x 1080 | Full HD          | 64 fps      |                   |

\* The maximum achievable frame rate is listed. The frame rate depends, among other things, on the performance of the computer used.

The frame rate corresponds to the maximum display speed of the live-image (frame rate in frames/second (fps)).

## 2.5 Operating and storage conditions

Always meet the operating and storage conditions.

### Operating environment

|                     |                                 |
|---------------------|---------------------------------|
| Ambient temperature | +5 °C - +40°C                   |
| Relative humidity   | 5% - 85% (without condensation) |
| Altitude            | Up to 2000 m                    |

### Storage conditions

|                     |                |
|---------------------|----------------|
| Ambient temperature | -20 °C - +60°C |
| Relative humidity   | 10% - 90%      |

## 3 System environment

### 3.1 Microscope and camera adapter

| Connected microscope          | Connected camera adapter        | DP23 | DP28 |
|-------------------------------|---------------------------------|------|------|
| <b>Upright microscopes</b>    | U-TV1XC /                       |      |      |
| BX43/ BX53/ BX46/ BX63        | U-TV1X+U-CMAD3                  | ○    | ○    |
| CX23/ CX33/ CX43              | U-TV0.63XC                      | ○    | (-)* |
| MX63 / BX53M                  | U-TV0.5XC-3                     | ○    | -    |
| <b>Inverted microscopes</b>   | U-TV0.35XC-2                    | (-)* | -    |
| IX73/ IX83                    | MVX-TV1XC                       | ○    | ○    |
| GX53/ GKX53                   | MVX-TV0.63XC                    | ○    | -    |
| <b>Macro zoom microscope</b>  | GX-TV0.7XC                      | ○    | -    |
| MVX10                         | GX-TV0.5XC                      | ○    | -    |
| <b>Stereo microscopes</b>     | GX-TV0.5XC-DP                   | ○    | -    |
| SZX7/ SZX10/ SZX16/<br>SZ61TR | 0.5XC (integrated in<br>SZ61TR) | ○    | -    |

○ Compatible

(-) Limited compatible. This camera adapter may lead to shading effects towards the edges of the image.

- Not compatible as optical performance would be affected.

\* Only in combination with microscopes that support FN26.5. Otherwise shading effects towards the edges of the image can occur.

## 3.2 Recommended computer and monitor configuration

When you connect the DP23 / DP28 to a computer, the following system requirements must be met.

|                       |  |
|-----------------------|--|
| CPU                   | Intel® Core i5, Intel® Core i7, Intel® Core i9,<br>Intel® Xeon (or equivalent)<br>6 or more physical CPU cores |
| RAM                   | Minimum: 8 GB<br>Recommendation: 16 GB (dual channel) or more  |
| Monitor               | Resolution 1920 x 1080 or higher   |
| Communication port    | USB-3.1 type A   |
| Removable media drive | Optical drive (double-layer capable)   |
| Computer input device | Recommendation: 3-button mouse with wheel.<br>Keyboard   |
| Operating system      | Microsoft® Windows® 10 (64 Bit)  |

## 3.3 Restrictions on use

### DP23 / DP28 with other microscopes

DP23 / DP28 can be used in combination with many available microscopes. However, the performance of the camera can only be guaranteed for the microscopes listed in the "Microscope and camera adapter" chapter on page 13.

The camera's performance in combination with non-Evident microscopes has not been tested.

### **Brightness fluctuations in the camera image**

With very high illumination intensities and short exposure times at the same time, the following phenomena can occur:

- Flickering in the image displayed
- Uneven exposure

If possible, reduce the illumination light level or use an attenuation filter to increase the exposure time to 20 ms or longer.

### **Clouding at the edges of the field of view caused by an intermediate tube that is too long**

If the intermediate tube is too long (see following example), clouding can occur at the edges of the field of view.

Examples of an intermediate tube that is too long:

- Two or more intermediate adapters are being used together.
- BX3 series: The vertical illuminator and the intermediate adapter are being used together.
- IX3 series: The IX73P2F or the IX83P2ZF are being used as the microscope frame.
- All reflected light microscopes when a brightfield or polarisation observation method is being used. Exceptions to this are the BX53MRF-S and BX53MTRF-S microscopes when they are being used with the BX3M-KMA-S reflected light illuminator.

### **Flare when the aperture stop is small**

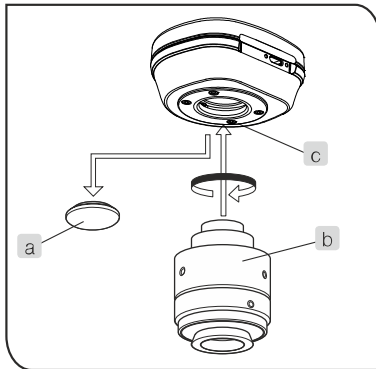
Spot flare can occur when the aperture stop is closed. This flare can be decreased by opening the aperture stop.

**No support of simultaneous image acquisition using several cameras**

You can connect several DP23 / DP28 cameras to one microscope. However, it isn't possible to simultaneously operate several cameras with one computer.

## 4 Assembly

### 4.1 Attaching the camera



1. Remove the cap of the C-mount port (a).
2. Screw the C-mount camera adapter (b) into the C-mount thread (c) at the bottom of the camera head.
3. Attach the C-mount camera adapter to the camera port of the microscope.

#### Checking the camera's orientation

If the camera is not attached in the correct orientation, the camera image does not match the image visible through the eyepieces.

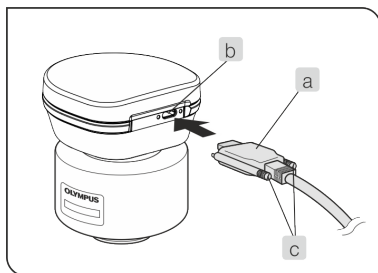
1. After attaching the camera, compare the eyepiece image with the live image on the monitor.
2. Rotate the camera adapter so that the alignment of these images matches.

## 4.2 Connecting the USB camera cable

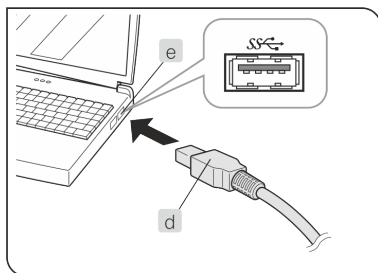
### ATTENTION

#### Use only the supplied USB camera cable

Operate the camera only with the supplied USB camera cable. Only then will the functionality of the camera and compliance with the EMC basic standards be ensured.



1. Connect the USB type C plug (a) to the camera's USB type C socket (b) and secure it with the two screws (c).



2. Connect the USB camera cable's USB type A plug (d) to the USB 3.1 port (e) of the computer or the DP2-AOU.  
Depending on the computer, the USB 3.1 port is either

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colored blue or labeled "SS".

The camera can't be operated using a USB 2.0 port.

## 4.3 Installing the software

### **cellSens/OLYMPUS Stream software**

Read the cellSens/OLYMPUS Stream installation manual before installing the software. When you purchase DP2-AOU, the required software is pre-installed.

### **TWAIN Driver DP2-TWAIN**

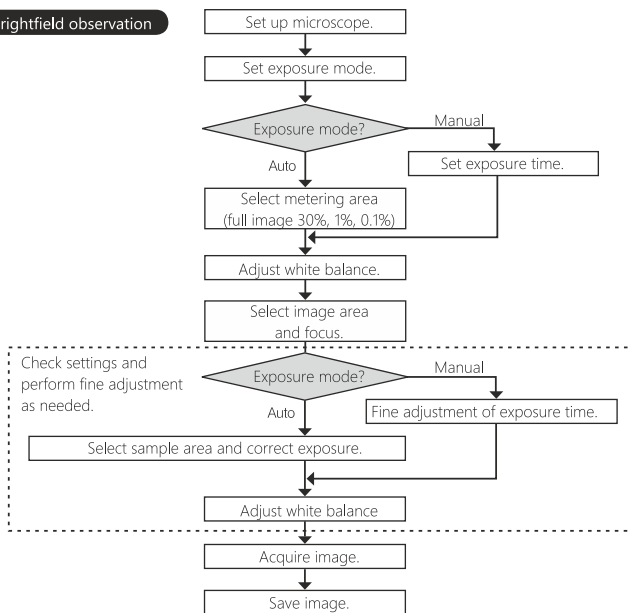
DP2-TWAIN is available only as a download from the Evident Internet site.

## 5 Acquiring images

You can find detailed instructions in the instruction manual or in the Help of the software you are using.

### Example of the acquisition process for brightfield images

#### Brightfield observation



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## 6 Cleaning the camera

When correctly handled, the camera has a long life span and is to a large extent maintenance-free.

### Cleaning the protective glass

To clean the camera's protective glass, use a standard rubber air blower to remove the dust and clean it gently with a clean lens cloth. If there are fingerprints or oil smudges on the protective glass, carefully clean it with a clean lens cloth moistened with pure alcohol.

### Cleaning the housing

Parts other than the glass components should be cleaned with a clean cloth. Do not use organic solvents to remove major stains. Use a soft cloth moistened with a neutral detergent solution.

#### **Never open the camera**

#### **ATTENTION**

The camera's CMOS chip is extremely sensitive. Electrostatic discharge can permanently damage the camera. Therefore, never open the camera housing.

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## 7 Troubleshooting

### 7.1 Possible problems

#### Problem: The camera is not working

| Possible cause                                  | Remedy  |
|---|---|
| The USB camera cable is not connected properly. | Connect the USB camera cable properly. When the USB camera cable is connected properly, the LED lights up continuously (see page 17). |

#### Problem: Live image is not displayed

| Possible cause   | Remedy  |
|--|---|
| The illumination of the microscope is not turned on.                   | Switch on the microscope illumination.                              |
| The light path selector of the microscope is not set to the camera.    | Set the light path selector of the microscope to the camera output. |
| The illumination intensity of the microscope is not adjusted properly. | Set the illumination intensity of the microscope correctly.         |

**Problem: A snapshot cannot be acquired**

| Possible cause  | Remedy  |
|---|---|
| DP2-TWAIN, cellSens or OLYMPUS Stream is still processing or performing data storage after acquisition. | Wait until the processing is finished. Then acquire the next snapshot.                  |
| The computer's RAM is fully occupied.   | Close other software applications. Then acquire the next snapshot.                      |
| There are too many images loaded in your software.  | If necessary, save the images. Close the loaded images. Then acquire the next snapshot. |

**Problem: The image is too bright**

| Possible cause   | Remedy  |
|--|---|
| The exposure compensation is set too high to the + side.         | Set the exposure compensation to a more suitable value.           |
| A dark area of the image was mistakenly set as the metering area | Set a more suitable metering area.                                |
| The AE lock is set at an exposure time that is too long.         | Deactivate the AE lock.   |
| The illumination of the microscope is too bright.                | Reduce the illumination light level or use an attenuation filter. |
| The manual exposure time is too long.                            | Reduce the manual exposure time.                                  |

**Problem: The image is too dark**

| Possible cause   | Remedy  |
|--|---|
| Exposure compensation is set too low to the - side.                | Set the exposure compensation to a more suitable value.   |
| A bright area of the image was mistakenly set as the metering area | Set a more suitable metering area.  |
| The AE lock is set at an exposure time that is too short.          | Deactivate the AE lock.   |
| The illumination of the microscope is too dark.                    | Increase the illumination light level using the brightness control or remove attenuation filters. |
| The manual exposure time is set too low.                           | Increase the manual exposure time.  |

**Problem: The colors of the image are inaccurate**

| Possible cause   | Remedy  |
|--|---|
| The reference area for white balance was not selected appropriately. | Set a reference area for white balance in which nothing can be seen in the background.  |
| The screen color of the computer is not set correctly.               | Set the screen color of the computer to 24 bit or higher. 32 bit is recommended.  |
| The color space was not selected appropriately.                      | Change the camera settings in your software. Select the appropriate color adjustment which is suitable for your microscope, observation method and samples. |

**Problem: The acquired image is not in focus**

| Possible cause   | Remedy   |
|--|--|
| The microscope was not focused on the sample.  | Focus the microscope on the sample.  |
| The parfocality between the camera adapter and the eyepieces is not adjusted properly.       | Adjust the parfocality between the camera adapter and the eyepieces properly.  |
| The aperture diaphragm of the condenser is too wide open.                                    | Set the aperture diaphragm to 75% of the objective's numerical aperture and focus the microscope on the sample.                                  |
| The field diaphragm is too wide open.  | Narrow the field aperture appropriately and focus the microscope on the sample.  |
| Lens components of the microscope and the cover glass on the bottom of the camera are dirty. | Clean the objective, the condenser, the window lens of the microscope, and the cover glass on the bottom of the camera (see page 21).            |
| The microscope and camera are being subjected to vibration during acquisition.               | Acquire images in an environment where the microscope and camera are not subjected to vibration. It is effective to use an anti-vibration table. |

## 7.2 Contacting Customer Service

Please contact your local Evident support if you have any questions about the product. The addresses can be found on the following websites:

### **Life Science Solutions**

<https://www.olympus-lifescience.com/en/contact-us/>

### **Industrial Solutions**

<https://www.olympus-ims.com/en/contact-us/>

## 8 Declarations of conformity and disposal

### EMC Conformity (Europe)

This product complies with the requirements of Directive 2014/30/EU concerning electromagnetic compatibility according to Standard IEC/EN61326-1.

- Emission: Class B
- Immunity: Suitable for residential and industrial environments.

### WEEE declaration (Europe)



In accordance with the European directive on Waste of 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 authority in the EU for return and/or collection systems available in your country.

### RoHS conformity (Europe)

This EVIDENT Technology Center Europe GmbH's camera conforms with the European Union directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU.

### FCC conformity (USA)

This device complies with part 15 of the FCC Rules. Operation is subject to the following 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.

This device 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 device generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it 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:

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

**FCC warning**

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

### **FCC Supplier's Declaration of Conformity**

The supplier hereby declares that the product

Product name: Optical Microscope Accessory

Model Number: DP23-CU

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107 and Section 15.109

Supplementary Information:

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.

Responsible Party Name: Evident Scientific, Inc.

Address: 48 Woerd Ave Waltham, MA 02453, U.S.A.

Phone Number: 781-419-3900

### **FCC Supplier's Declaration of Conformity**

The supplier hereby declares that the product

Product name: Optical Microscope Accessory

Model Number: DP28-CU

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107 and Section 15.109

Supplementary Information:

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.

Responsible Party Name: Evident Scientific, Inc..

Address: 48 Woerd Ave Waltham, MA 02453, U.S.A.

Phone Number: 781-419-3900

## Korea

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

|                                     |  |
|-------------------------------------|--|
| Trade Name or Registrant:           | EVIDENT Technology Center Europe               |
| Equipment Name:                     | Optical Microscope Accessory                   |
| Basic Model Number:                 | DP23-CU  |
| Registration No.:                   | R-R-OIS-68000000                               |
| Basic Model Number:                 | DP28-CU  |
| Registration No.:                   | R-R-OIS-69000000                               |
| Manufacturer/<br>Country of Origin: | EVIDENT Technology Center Europe GmbH, Germany |

## China RoHS conformity (China)



电器电子产品有害物质限制使用标志

本标志是根据“电器电子产品有害物质限制使用管理办法”以及“电子电气产品有害物质限制使用标识要求”的规定，适用于在中国销售的电器电子产品上的电器电子产品有害物质使用限制标志。

(注意) 电器电子产品有害物质限制使用标志内的数字为在正常的使用条件下有害物质等不泄漏的期限，不是保证产品功能性能的期间。

产品中有害物质的名称及含量

| 部件名称 |      | 有害物质           |                |                |                      |               |                 |
|------|------|----------------|----------------|----------------|----------------------|---------------|-----------------|
|      |      | 铅及其化合物<br>(Pb) | 汞及其化合物<br>(Hg) | 镉及其化合物<br>(Cd) | 六价铬及其化合物<br>(Cr(VI)) | 多溴联苯<br>(PBB) | 多溴二苯醚<br>(PBDE) |
| 主体   | 机构部件 | X              | ○              | ○              | ○                    | ○             | ○               |
|      | 光学部件 | X              | ○              | ○              | ○                    | ○             | ○               |
|      | 电气部件 | X              | ○              | X              | ○                    | ○             | ○               |
| 附件   |      | ○              | ○              | ○              | ○                    | ○             | ○               |

本表格依据SJ/T 11364的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在GB/T26572规定的限量要求以下。

X：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T26572规定的限量要求。

———— Manufacturer / 製造元 / 制造商 ————

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