

## DM Series

Digital microscopes



## DM Series

The OPTIKA digital microscopes DM are equipped with a camera which is integrated in the head of the microscope, as well as the traditional characteristics of quality and robustness.

The entire DM series, from models dedicated to teaching to those intended for laboratory use, is equipped with "plug & play" software. This series is the ideal solution for capturing images and video and transfer them to a PC.

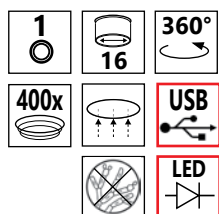
|                 |   |
|-----------------|---|
| <b>DM-5</b>     | Digital Monocular microscope 480Kpixels (software included).  |
| <b>DM-5UP</b>   | Digital Monocular microscope 480Kpixels, USB powered (software included).                                       |
| <b>B-150DM</b>  | Digital monocular microscope 400x, 1.3Mp, double layer stage (software included).                               |
| <b>B-150DMR</b> | Digital monocular microscope 400x, 1.3Mp, double layer stage, with rechargeable batteries (software included).  |
| <b>B-150DB</b>  | Digital binocular microscope 1000x, 3.2Mp, double layer stage (software included).                              |
| <b>B-150DBR</b> | Digital binocular microscope 1000x, 3.2Mp, double layer stage, with rechargeable batteries (software included). |
| <b>B-190TB</b>  | Upright digital microscope, achromatic objectives. With Tablet PC.  |
| <b>B-290TB</b>  | Upright digital microscope, E-PLAN objectives, belt-drive stage. With Tablet PC.                                |
| <b>SZM-D</b>    | Digital stereozoom microscope 7x...45x, halogen incident & transmitted illumination, with 1.3Mpixels...         |



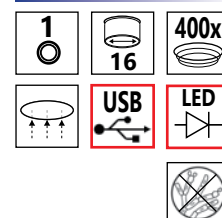
# DM Series - Models



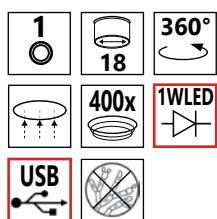
**DM-5**



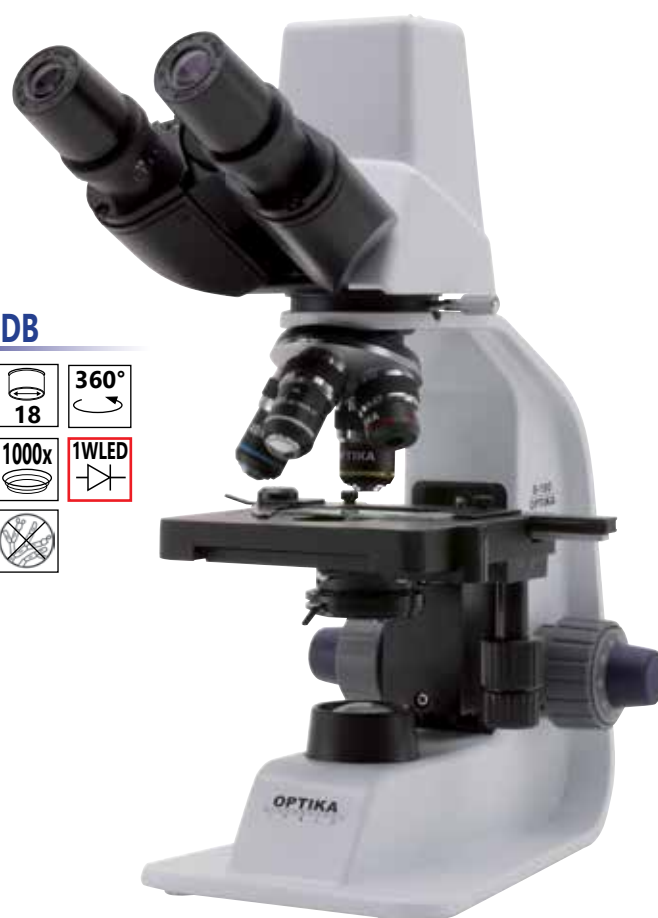
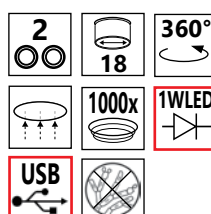
**DM-5UP**



**B-150DM**



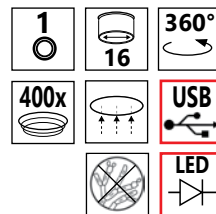
**B-150DB**



## DM Series - DM-5



### DM-5



The DM-5 is the "entry level" model of the DM series and it is ideal for primary schools.

Its ease of use combined with high quality construction and first choice optical system, make the study of biology a pleasant experience.

The DM-5 is supplied with everything needed for immediate use without the need for additional accessories.

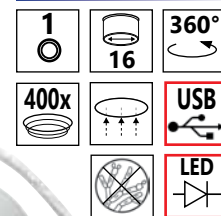


## DM Series - DM-5

|                                   |  |
|-----------------------------------|--|
| <b>Head:</b>                      | Digital, monocular, 360° rotating, 45° inclined  |
| <b>Eyepiece:</b>                  | WF10x/16mm   |
| <b>Nosepiece:</b>                 | Triple, reversed   |
| <b>Objectives:</b>                | Achromatic 4x (0.10), 10x (0.25), 40x (0.65)   |
| <b>Stage:</b>                     | Rotating round stage dia. 90mm;<br>moving range: 5mm; slide clips                            |
| <b>Focusing:</b>                  | Coarse and fine with different axis  |
| <b>Illumination:</b>              | White LED, non-rechargeable, with brightness control   |
| <b>Digital camera resolution:</b> | 640x480  |
| <b>Output:</b>                    | 2.0 USB port   |
| <b>Software:</b>                  | OPMIAS (Optika Micro Image Analysis Software),<br>for Windows XP/Vista/Win7, Win8, 32-64 bit |
| <b>Packing:</b>                   | Carton box with inner foam   |



**DM-5**



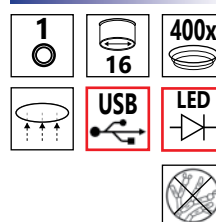
## DM Series - DM-5UP

### Monocular digital microscope

Same as DM-5, but with illuminator powered by your PC through USB connection.



**DM-5UP**



USB POWERED  
OR EXTERNALLY POWERED



# DM Series - B-150DM / B-150DMR

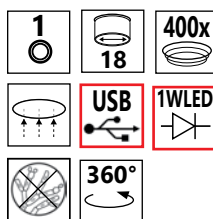
The microscopes B-150DM and B-150DB are built to meet the needs of secondary schools.

The integration of a digital camera, the quality of the optics and mechanics, and the rich equipment of these microscopes make them the best solution for the interactive training.

B-150DM and B-150BM are provided with everything necessary to allow immediate use without the need for additional accessories.



## B-150DM



|                                   |  |
|-----------------------------------|--|
| <b>Head:</b>                      | Digital, Monocular, 360° rotating, 45° inclined                              |
| <b>Eyepiece:</b>                  | WF10X/18mm   |
| <b>Nosepiece:</b>                 | Quadruple  |
| <b>Objectives:</b>                | Achromatic 4x (0.10), 10x (0.25), 40x (0.65).                                |
| <b>Working stage:</b>             | Double layer with mechanical sliding stage, 125x115mm, moving range: 50x30mm |
| <b>Condenser:</b>                 | 1.25 N.A. Abbe type  |
| <b>Focusing system:</b>           | Coaxial coarse and fine, with focusing stop mechanism                        |
| <b>Illumination:</b>              | 1W White LED, non-rechargeable, with brightness control                      |
| <b>Digital camera resolution:</b> | 1280x1024 pixels (1.3Mp)   |
| <b>Output:</b>                    | 2.0 USB port   |
| <b>Software:</b>                  | OPTIKA Vision Lite for Windows XP/Vista, Win7, Win8, 32-64 bit               |
| <b>Packing:</b>                   | Carton box with inner foam   |

# DM Series - B-150DB / B-150DBR

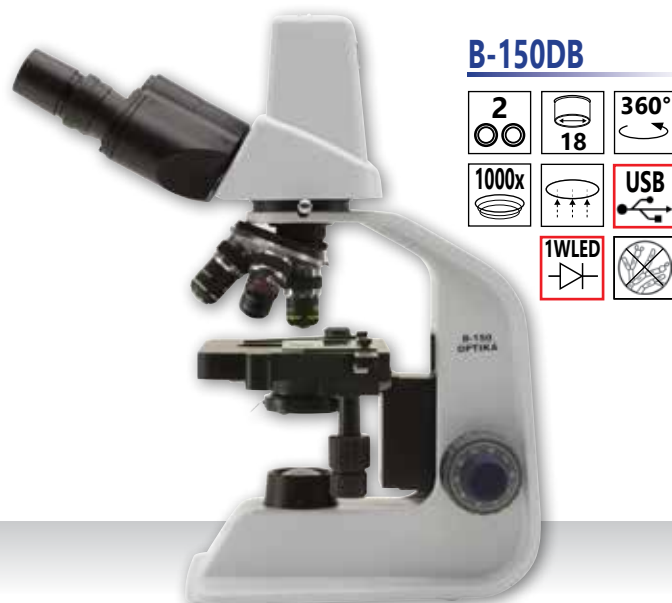
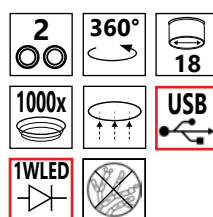
|                                   |   |
|-----------------------------------|---|
| <b>Head:</b>                      | Digital, Binocular, 360° rotating, 30° inclined                           |
| <b>Eyepiece:</b>                  | WF10X/18mm  |
| <b>Nosepiece:</b>                 | Quadruple   |
| <b>Objectives:</b>                | Achromatic 4x (0.10), 10x (0.25), 40x (0.65), 100x (1.25).                |
| <b>Working stage:</b>             | Double layer with mechanical sliding stage, 125x115mm, mov. range 50x30mm |
| <b>Condenser:</b>                 | 1.25 N.A. Abbe type   |
| <b>Focusing system:</b>           | Coaxial coarse and fine, with focusing stop mechanism                     |
| <b>Illumination:</b>              | 1 watt white LED, non-rechargeable, with brightness control               |
| <b>Digital camera resolution:</b> | 2048x1536 pixels (3.14Mp)   |
| <b>Output:</b>                    | 2.0 USB port  |
| <b>Software:</b>                  | OPTIKA Vision Lite for Windows XP/Vista, Win7, Win8, 32-64 bit            |
| <b>Packing:</b>                   | Carton box with inner foam  |

## R - Rechargeable battery

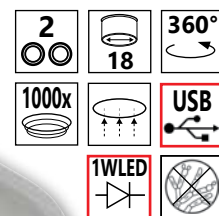
B-150DMR and B-150DBR comes with an internal rechargeable battery for use on field.



**B-150DB**



**B-150DBR**



# DM Series - Technical specifications

|                                    | DM-5   | B-150DM                  | B-150DB                   |
|------------------------------------|--|--------------------------|---------------------------|
| <b>Resolution</b>                  | 640x480 pixels   | 1280x1024 pixels (1.3Mp) | 2048x1536 pixels (3.14Mp) |
| <b>Sensor</b>                      | 1/4"CMOS   | 1/3,2"CMOS               | 1/2,5"CMOS                |
| <b>Pixel size</b>                  | 7,9x7,9 µm   | 2,8x2,8 µm               | 2,2x2,2 µm                |
| <b>Resolution &amp; Frame Rate</b> | 640x480 - 25 fps   | 1280x1024 - 15 fps       | 2048x1536 - 4 fps         |
|                                    |  | 640x480 - 30 fps         | 1280x1024 - 8 fps         |
|                                    |  |                          | 640x480 - 30 fps          |
| <b>Sensitivity</b>                 | 2.0 V/Lux-sec  | 1.0 V/Lux-sec            | 1.0 V/Lux-sec             |
| <b>White Balance</b>               | Auto / Manual  | Auto / Manual            | Auto / Manual             |
| <b>S/N Ratio</b>                   | ≥ 50 dB  | ≥ 42 dB                  | ≥ 40 dB                   |
| <b>Dynamic Range</b>               | ≥ 60 dB  | ≥ 71 dB                  | ≥ 66 dB                   |
| <b>Digital Port</b>                | USB 2.0  | USB 2.0                  | USB 2.0                   |
| <b>Imaging Software</b>            | OPMIAS   | OPTIKA Vision Lite       | OPTIKA Vision Lite        |
| <b>System Requirements</b>         | Operating system: Windows XP, Vista, Win7, Win8, 32-64 bit |                          |                           |

# DM Series - Accessories

## DM-5 - DM5UP

|       |                                 |
|-------|---------------------------------|
| M-044 | Eyepiece WF10x/16mm.            |
| M-727 | Achromatic objective 4x/0,10.   |
| M-728 | Achromatic objective 10x /0,25. |
| M-729 | Achromatic objective 40x/0,65.  |
| M-030 | Dust cover type 1.              |

## B-150DM - B-150DB - B-150DMR - B-150DBR

|         |  |
|---------|--|
| M-001   | Eyepiece H5x.  |
| M-002.1 | Eyepiece WF10x/18mm.                                   |
| M-003   | Eyepiece WF16x/12mm.                                   |
| M-004   | Eyepiece with micrometer WF10x/18mm.                   |
| M-137   | Objective Achromatic 4x/0,10.                          |
| M-138   | Objective Achromatic 10x/0,25.                         |
| M-139   | Objective Achromatic 20x/0,40.                         |
| M-141   | Objective Achromatic 40x/0,65.                         |
| M-142   | Objective Achromatic 60x/0,80.                         |
| M-143   | Objective Achromatic 100x/1,25 (Oil).                  |
| M-114   | CCD camera adapter 0,45x.                              |
| M-116   | CCD camera adapter 0,50x.                              |
| M-031   | Dust cover type 3.                                     |
| M-173   | Photo adapter for APS-C and Full Frame Reflex cameras. |

## 15104 - Lens cleaner, 50ml

It cleans glass quickly and effectively, without leaving residue or odor. Ideal for precision lens or prism cleaning.



**How to connect the cameras to our microscopes.**  
Please refer to the Adapter reference list on Digital section.



# DM Series - B-190TB - B-290TB - BEYOND DIGITAL

The latest Digital Microscopes with Tablet PC from Optika open new microscopy horizons. Our Microscopes combine high-end optics with innovative Digital Technology for microscopic imaging.



## Optical system:

The optical system has been developed for demanding users; it consists of high quality components which guarantee an high image contrast and an excellent optical resolution. The optical components have been designed and treated with special techniques to prevent the formation of moulds and fungi.

## Head:

Binocular version available.

The heads are equipped with interpupillary distance control (48-75 mm) as well as with dioptic compensation. All heads are 360° rotatable and 30° inclined.

## Stand:

The stand has a modern and ergonomic design. It is easy to carry the microscope thanks to the large opening behind the revolving nosepiece, to be used as a handle. The opening allows the user to see clearly the objectives and the samples, as requested in discussion groups.

## Mechanics:

The moving parts are made by means of machine tools with computerized numerical control reducing manufacturing tolerance and increasing the reliability of the instrument. The strict controls on materials and production processes are optimized through the procedures established by ISO 9001:2008 quality system.

## Illumination:

### B-190TB:

X-LED<sup>2</sup> type with white LED; light intensity control using a knob on left side of the frame.

LED power 3W, comparable to a 30-35W halogen bulb.

### B-290TB:

X-LED<sup>3</sup> type with white LED; light intensity control using a knob on left side of the frame.

LED power 3.6W, comparable to a 50W halogen bulb.

## Camera:

Digital camera resolution: 3.14 MegaPixels

Signal output: USB 2.0 - Sensor size: 1/2.5"

Sensor technology: CMOS - Image format: 4/3

Full Image Size: 2048x1536. NO driver (microsoft driver).

Capture features: continuous auto exposure, image size, image capture, compressed video capture.

Control parameters: brightness, gain, exposure time, colors, color enhancement.

## Tablet PC:

Equipped with Windows 8.1 operating system.

Included: Image Analysis software OPTIKA VISION LITE, full screen function is also included for a wider camera Live View.

2GB standard memory. 32GB capacity flash memory.

8" screen size. Tablet PC with OPTIKA detachable system.

## DM Series - B-190TB

The B-190 series is the result of a perfect fusion between years of experience in the microscopy field and a refined design study.

This series represents our product philosophy at its best: **Quality, Reliability and Innovation.**

Optika is glad to introduce a new member of this key series: The **B-190TB**.

|                         |  |
|-------------------------|--|
| <b>Head:</b>            | Binocular Digital observation head, inclined 30° and rotatable 360°.   |
| <b>Eyepiece:</b>        | Widefield eyepieces WF10X/18 with field number 18mm.   |
| <b>Nosepiece:</b>       | Quadruple revolving nosepiece, rotation on ball bearings.  |
| <b>Objectives:</b>      | Achromatic DIN 4x (0.10), 10x (0.25), 40x (0.65), 100X (1.25).   |
| <b>Working stage:</b>   | Double layer with mechanical sliding stage, size 125x115mm, X-Y movement range 70x30, specimen holder for one slide.   |
| <b>Condenser:</b>       | Abbe condenser, N.A. 1,25 precentered  |
| <b>Focusing system:</b> | Coaxial coarse and fine, with focusing stop mechanism  |
| <b>Illumination:</b>    | Light source type X-LED <sup>2</sup> with white LED; light intensity control using a knob on left side of the frame.<br>LED power 3W, comparable to a 30-35W halogen bulb. |

**Easily detachable  
from the microscope**





## DM Series - B-290TB

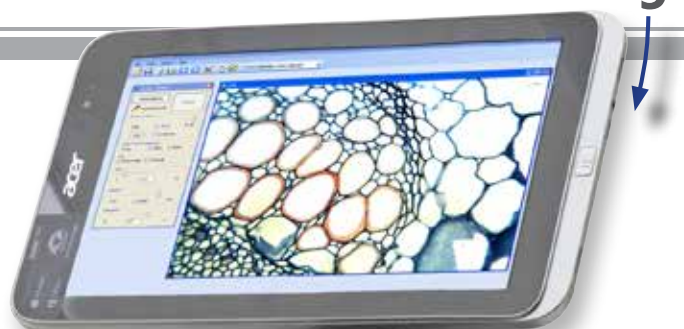
This series incorporates all the experience gathered by OPTIKA Microscopes in the field of light microscopy, adapted specifically for routine laboratory brightfield applications.

These microscopes are suitable for routine microscopy and have an ergonomic design for comfortable long-term use.

Optika is glad to introduce a new member of this key series: The **B-290TB**.

|                         |  |
|-------------------------|--|
| <b>Head:</b>            | Binocular Digital observation head, inclined 30° and rotatable 360°.   |
| <b>Eyepiece:</b>        | Widefield eyepieces WF10X/20 with field number 20.   |
| <b>Nosepiece:</b>       | Quadruple revolving nosepiece, rotation on ball bearings.  |
| <b>Objectives:</b>      | E-Plan 4x (0.10), 10x (0.25), 40x (0.65), 100X (1.25).   |
| <b>Working stage:</b>   | Double layer with mechanical sliding stage, size 150x133mm, X-Y movement range 75x50mm, specimen holder for one slide. Belt drive in X direction.                      |
| <b>Condenser:</b>       | Abbe condenser, N.A. 1,25 precentered  |
| <b>Focusing system:</b> | Coaxial coarse and fine, with focusing stop mechanism  |
| <b>Illumination:</b>    | Light source X-LED <sup>3</sup> type with white LED; light intensity control using a knob on left side of the frame. LED power 3.6W, comparable to a 50W halogen bulb. |

Tilting



360°  
Rotating



# DM Series - B-190TB/B-290TB

## Tablet specifications

### **OPERATING SYSTEM**

OS Windows 8.1

### **PROCESSOR AND CHIPSET**

Processor manufacturer Intel  
Processor Type Atom  
Model Z3740  
Speed 1,33 GHz  
Processor Core Quad core (4 Core)

### **MEMORY**

Standard Memory 2 GB  
Memory Technology LPDDR3  
Memory Card Reader Yes  
Supported memory microSD

### **STORAGE**

Capacity flash memory 32 GB

### **DISPLAY AND GRAPHICS**

Screen Size 20,3 cm (8")  
Screen Type LCD color TFT  
Screen Mode WXGA  
Screen Resolution 1280 x 800  
Backlight technology LED  
Touchscreen Yes  
Multi-touch screen Yes  
Graphics Controller Manufacturer Intel  
Graphics Controller Model HD Graphics  
Graphics Memory Technology LPDDR3  
Graphics Memory Accessibility Shared

### **NETWORK & COMMUNICATION**

LAN wireless Yes

Wireless LAN standard IEEE 802.11a/g/n

Bluetooth Yes

Standard Bluetooth 4.0

### **INTERFACES / PORTS**

HDMI Yes

### **INPUT DEVICES**

Keyboard Type Touchscreen

### **BUILT-IN DEVICES**

Microphone Yes

### **SOFTWARE**

Operating System Windows 8.1,  
Microsoft office,  
Home & Student 2013  
Operating System Architecture 32-bit  
Image Analysis software OPTIKA VISION LITE

### **BATTERY INFORMATION**

Number of Cells 2-cell  
Battery Chemistry Lithium Polymer  
Battery Capacity 4960 mAh

### **POWER DESCRIPTION**

Maximum Power Supply Wattage 10 W

### **WEIGHT AND DIMENSIONS**

Thickness 11,5 mm  
Width 219 mm  
Height 135 mm  
Weight (Approximate) 415 g

### **ACCESSORIES**

Touch-pen



## DM Series - Accessories

### **B-190TB**

|         |                                       |
|---------|---------------------------------------|
| M-001   | Eyepiece H5x.                         |
| M-002.1 | Eyepiece WF10x/18mm.                  |
| M-003   | Eyepiece WF16x/12mm.                  |
| M-004   | Eyepiece with micrometer WF10x/18mm.  |
| M-008   | Eyepiece with pointer WF10x/18mm.     |
| M-137   | Objective Achromatic 4x/0,10.         |
| M-138   | Objective Achromatic 10x/0,25.        |
| M-139   | Objective Achromatic 20x/0,40.        |
| M-141   | Objective Achromatic 40x/0,65.        |
| M-142   | Objective Achromatic 60x/0,80.        |
| M-143   | Objective Achromatic 100x/1,25 (Oil). |

|       |                                       |
|-------|---------------------------------------|
| M-190 | Polarising set (filters only).        |
| M-031 | Dust cover type 3.                    |
| M-069 | Solar battery pack.                   |
| M-974 | Blue filter, 32 mm diameter.          |
| M-976 | Green filter, 32 mm diameter.         |
| M-978 | Yellow filter, 32 mm diameter.        |
| M-988 | Frosted glass filter, 32 mm diameter. |
| 15008 | OPTIKA immersion oil 10ml.            |



# DM Series - B-190TB/B-290TB

## Camera specifications

### CAMERA SPECIFICATIONS

|                              |                                      |
|------------------------------|--------------------------------------|
| Digital camera resolution    | 3.14 MegaPixels                      |
| Analog camera resolution     | NO                                   |
| Signal output                | USB 2.0                              |
| Audio Signal                 | NO                                   |
| Sensor Size                  | 1/2.5"                               |
| Sensor technology            | CMOS                                 |
| Image format                 | 4\3                                  |
| Full Image size              | 2048 x 1536                          |
| Pixel size                   | 2,2 x 2,2 micron                     |
| Frame rate full resolution   | 5 frames\sec                         |
| Frame rate other resolutions | 8 FPS (1280x1024)<br>30FPS (640x480) |
| Sensitivity                  | 0,53 V/Lux-second<br>(550 nm)        |
| Signal / noise ratio         | 40 dB                                |
| Dynamic range                | 66.5 dB                              |
| Max Exposure time            | 1,5 sec                              |
| ADC conversion               | 12 BIT                               |
| Color Depth                  | 8 BIT                                |
| On camera IR Filter          | 680 nm                               |
| Automatic White Balance      | Auto - Man                           |
| Automatic Gain Control       | Auto - Man                           |
| Automatic Back light control | Auto - Man                           |
| Exposure control             | Auto - Man                           |

### ACCESSORIES

|                   |     |
|-------------------|-----|
| Calibration Slide | YES |
|-------------------|-----|

### SOFTWARE SPECIFICATIONS

#### Supplied Software:

Optika Vision Lite (full screen function is also included for a wider camera Live View)

#### Driver type:

No driver (microsoft driver)

#### Capture features:

Continuous auto exposure, image size, image capture, compressed video capture.

#### Control parameters:

Brightness, gain, exposure time, colors, color enhancement.

### GENERAL SPECIFICATIONS

|                     |                 |
|---------------------|-----------------|
| Working temperature | +0 up to +60°C  |
| Storage temperature | -20 up to +70°C |
| Relative Humidity   | 45% up to 85%   |

## DM Series - Accessories

### **B-290TB**

|       |                                   |
|-------|-----------------------------------|
| M-160 | Eyepiece WF10x/20mm.              |
| M-161 | Eyepiece WF15x.                   |
| M-162 | Eyepiece WF20x.                   |
| M-163 | Micrometer eyepiece WF10x/20mm.   |
| M-164 | Objective 4x/0,10 E-PLAN.         |
| M-165 | Objective 10x/0,25 E-PLAN.        |
| M-166 | Objective 20x/0,40 E-PLAN.        |
| M-167 | Objective 40x/0,65 E-PLAN.        |
| M-168 | Objective 60x/0,80 E-PLAN.        |
| M-169 | Objective 100x/1,25 E-PLAN (Oil). |

|           |  |
|-----------|--|
| M-174     | Polarizing set, filters only (for B-290 series).                 |
| M-175     | Rotating table for polarizing set.                               |
| M-069     | Solar battery pack.  |
| M-666.290 | Heating stage, with digital temperature controller B-290 series. |

## DM Series - SZM-D

The stereomicroscopes of the SZM series are instruments specifically designed for laboratory and industry applications. Their optical and mechanical qualities place them at the top of that sought-after category of appliances and the price/quality ratio is exceptionally good.

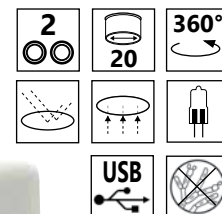
Sharing the same optical system consisting of binocular and trinocular heads with zoom objectives, the four models of the SZM series find their proper application wherever professional instruments are required at a particularly contained cost.

The numerous accessories provide an ample choice of possible configurations and extend the flexible use of the instruments.

SZM-D stereozoom microscope is our best option when an ease of use and a good quality for the image are required.

By using the built-in camera with its USB port the connection with the pc will be simple and quick.

### SZM-D



# DM Series - SZM-D Model Technical specifications

| Model        | Head      | Objectives          | Stand        | Illumination  |
|--------------|-----------|---------------------|--------------|---|
| <b>SZM-D</b> | Binocular | 0,7x..... 4,5x Zoom | Pillar stand | Incident and transmitted 12V/15W halogen with separated brightness controls |

## Technical specifications of the built-in camera

|   |  |
|---|--|
| <b>Resolution</b>                       | 1280 x 1024 pixels (1,3 Mpixels)   |
| <b>Sensor</b>                           | CMOS 1/3"  |
| <b>Pixel Size</b>                       | 5.2 µm x 5.2 µm  |
| <b>Imaging Area</b>                     | 6.67 mm x 5.33 mm  |
| <b>Frame Rate at Full Resolution</b>    | 15 frames/sec  |
| <b>Frame Rate at 640x480</b>            | 30 frames/sec  |
| <b>Optical Format</b>                   | 1/2"   |
| <b>Aspect Ratio</b>                     | 4:3  |
| <b>S/N Ratio</b>                        | 44 dB  |
| <b>Dynamic Range</b>                    | 71 dB  |
| <b>ADC</b>                              | 10 bit   |
| <b>Data Output (Uncompressed Video)</b> | 3x8 bit  |
| <b>Exposure Range</b>                   | 0-70 msec  |
| <b>Sensitivity</b>                      | 1,0V/Lux-second  |
| <b>C-Mount Lens Adapter</b>             | no   |
| <b>System Requirements</b>              | Windows XP/Vista, Win7, Win8, 32 & 64Bit , USB 2.0                                       |
| <b>Software</b>                         | Optika Vision Lite, Optika view, TWAIN interface, several freeware for image elaboration |
| <b>Capture Features</b>                 | Continuous auto white balance, continuous auto exposure                                  |
| <b>Included with the camera</b>         | Optika Vision Lite package, 1.5 m USB cable.   |



# DM Series - Accessories

## SZM-D

|         |   |
|---------|---|
| ST-081  | Eyepieces (pair) WF10x/20 mm.                                 |
| ST-082  | Eyepieces (pair) WF15x/15 mm.                                 |
| ST-083  | Eyepieces (pair) WF20x/10 mm.                                 |
| ST-084  | Micrometric eyepiece WF10x/20 mm.                             |
| ST-085  | Additional lens 0,5x (w.d. 165mm).                            |
| ST-091  | Additional lens 0,75x (w.d. 117mm).                           |
| ST-086  | Additional lens 1,5x (w.d. 47mm).                             |
| ST-087  | Additional lens 2x (w.d. 26mm).                               |
| ST-088  | Polarising set (filters and rotating stage).                  |
| ST-040  | Darkfield condenser.  |
| ST-041  | Sample clip.  |
| ST-100  | Hand moving stage.  |
| ST-036  | Eye cups (pair) type 2.                                       |
| ST-012  | White/black object-plate, type 2 dia. 95 mm.                  |
| ST-014  | Glass stage, type 2, dia. 95 mm.                              |
| ST-038  | Halogen bulb, 12V/15W.  |
| ST-037  | Halogen bulb, 12V/15W, with dichroic mirror.                  |
| ST-033  | Dust cover type 13.   |
| M-114   | CCD camera adapter 0,45x.                                     |
| M-116   | CCD camera adapter 0,50x.                                     |
| M-173   | Photo adapter for APS-C and Full Frame Reflex cameras.        |
| M-113.1 | Ring adapter, 30mm (for monocular and binocular microscopes). |

## 15104 - Lens cleaner, 50ml

It cleans glass quickly and effectively, without leaving residue or odor. Ideal for precision lens or prism cleaning.



### How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.



## Headquarters and Manufacturing Facilities

### OPTIKA® S.r.l.

Via Rigla, 30 - 24010 Ponteranica (BG) - ITALIA - Tel.: +39 035.571.392 - Fax: +39 035.571.435 - [info@optikamicroscopes.com](mailto:info@optikamicroscopes.com)

### Optika Sales branches

#### OPTIKA® Spain

[spain@optikamicroscopes.com](mailto:spain@optikamicroscopes.com)

#### OPTIKA® China

[china@optikamicroscopes.com](mailto:china@optikamicroscopes.com)

#### OPTIKA® USA

[usa@optikamicroscopes.com](mailto:usa@optikamicroscopes.com)

#### OPTIKA® Hungary

[hungary@optikamicroscopes.com](mailto:hungary@optikamicroscopes.com)