OPTIKA®
ITALY

DM Series
Digital biological 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.

DM-5	Digital Monocular microscope 480Kpixels (software included).
DM-5UP	Digital Monocular microscope 480Kpixels, USB powered (software included).
B-150DM	Digital monocular microscope 400x, 1.3Mp, double layer stage (software included).
B-150DMR	Digital monocular microscope 400x, 1.3Mp, double layer stage, with rechargeable batteries (software included).
B-150DB	Digital binocular microscope 1000x, 3.2Mp, double layer stage (software included).
B-150DBR	Digital binocular microscope 1000x, 3.2Mp, double layer stage, with rechargeable batteries (software included).

DM Series - **Models**

DM-5

1 ◯	🔘 16	360° ↻
400x	⬭	USB
⊗		LED

DM-5UP

1 ◯	🔘 16	400x
⬭	USB	LED
⊗		

B-150DM

1 ◯	🔘 18	360° ↻
⬭	400x	1WLED
USB	⊗	

B-150DB

2 ◯◯	🔘 18	360° ↻
⬭	1000x	1WLED
USB	⊗	

OPTIKA

DM Series - DM-5

DM-5

1 ○	16	360°
400x		USB
		LED

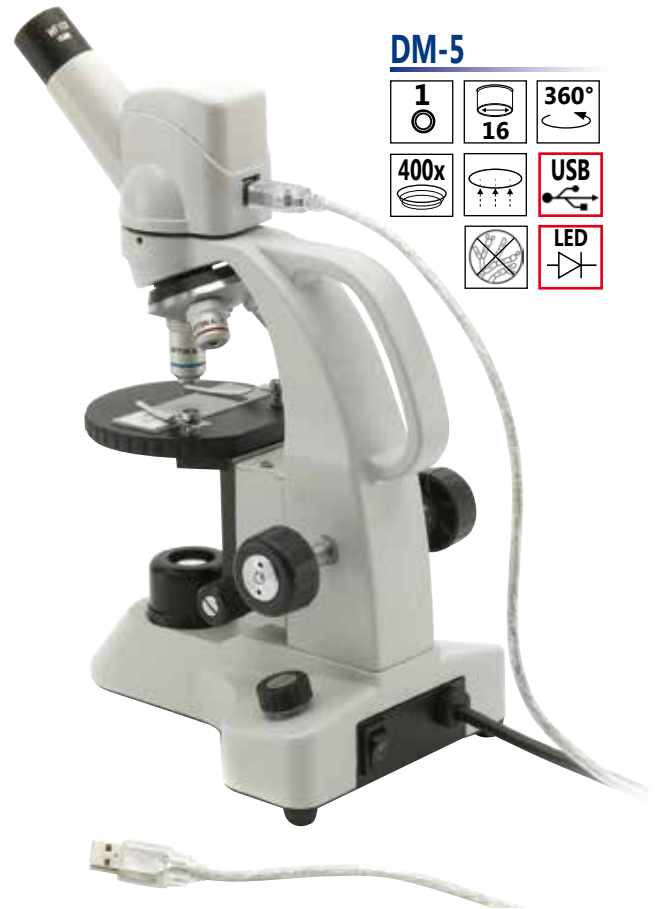The DM-5 is the "entry level" model of the DM series and it ideal for primary schools.

Its ease of use combined with high quality construction and first choice optical system, make the study of biology a pleasant experience.
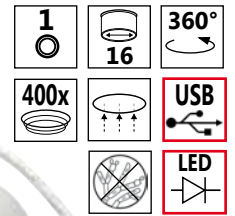
The DM-5 is supplied with everything needed for immediate use without the need for additional accessories.

DM Series - **DM-5**

DM-5

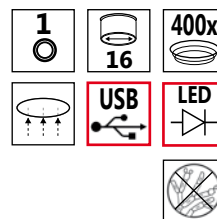| Head:	Digital, monocular, 360° rotating, 45° inclined
Eyepiece:	WF10x/16mm
Nosepiece:	Triple, reversed
Objectives:	Achromatic 4x (0.10), 10x (0.25), 40x (0.65)
Stage:	Rotating round stage dia. 90mm; moving range: 5mm; slide clips
Focusing:	Coarse and fine with different axis
Illumination:	White LED,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

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
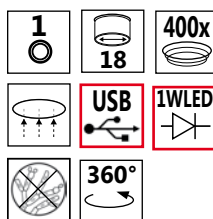
DM Series - **B-150DM / B-150DMR**

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.
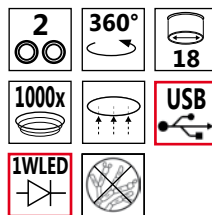

B-150DM

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

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

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

2	360°	18
1000x		USB
1WLED		

B-150DB

2	18	360°
1000x		USB
1WLED		

DM Series - **Technical specifications**

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

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-031	Dust cover type 3.

15104 - Lens cleaner, 50ml

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

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Use the above details to contact us if this literature doesn't answer all your questions.

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.