

OPTIKA

M I C R O S C O P E S
I T A L Y

Digital biological microscopes

DM

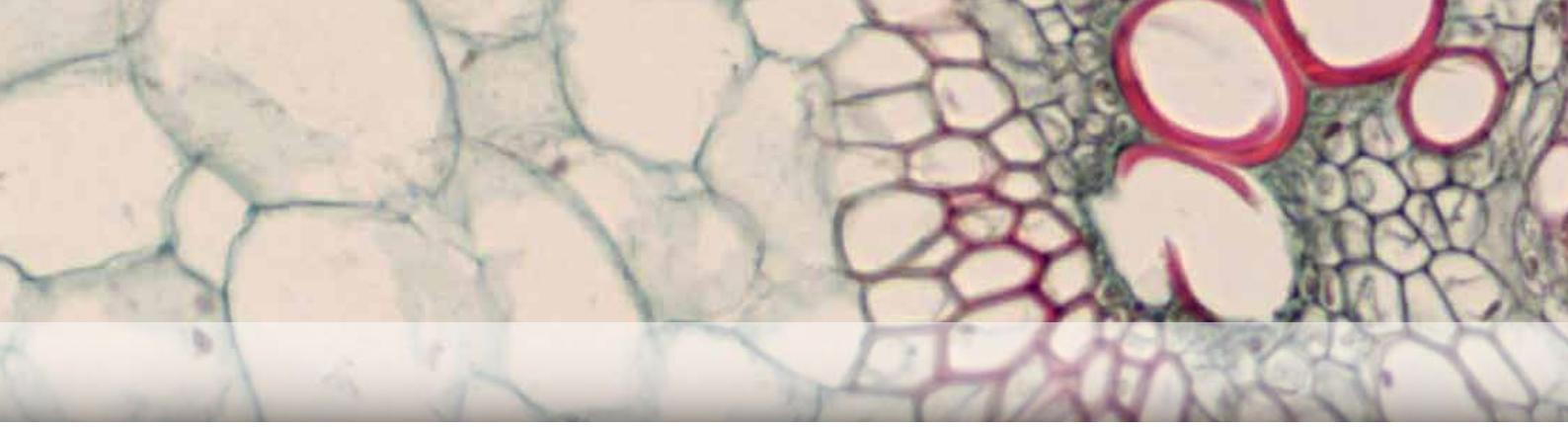
DM-5 / DM-5UP / B-150DM / B-150DB / DM-15 / DM-20 / DM-25

DM Series

Digital biological microscopes



DM



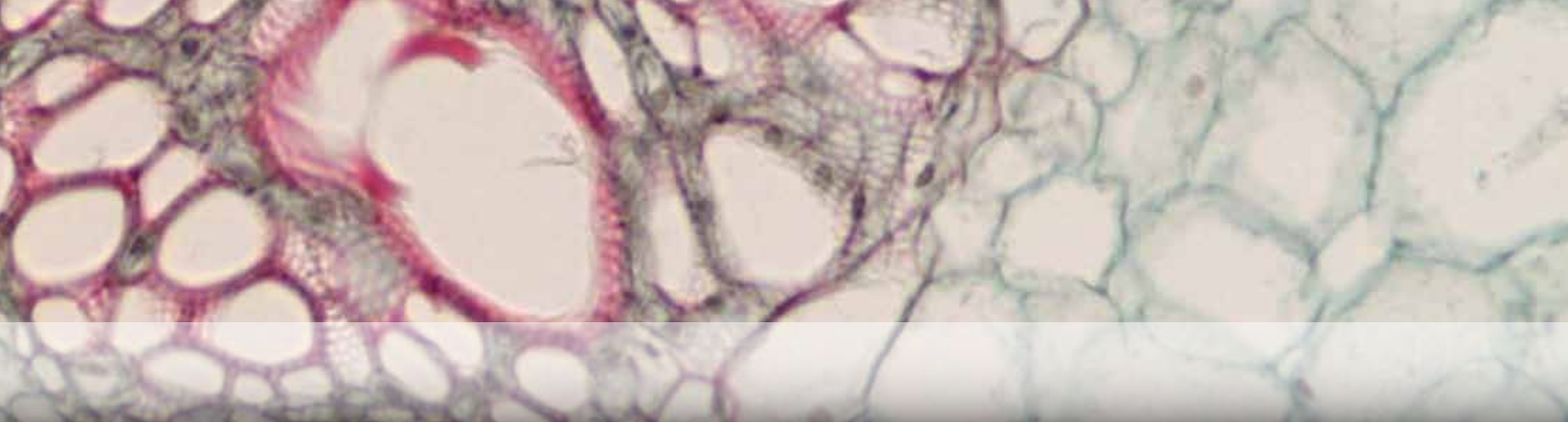
DM Series - Digital microscopes

The OPTIKA digital microscopes are the easiest instruments to capture pictures from a microscope and transfer them to a pc. In addition, the entire OPTIKA digital series ensures a remarkable quality.

The whole range, from the didactic to the laboratory models, is well equipped and comes with a complete "plug and play" software package.

DM-5	Monocular digital microscope.
DM-5UP	USB powered monocular digital microscope.
B-150DM	Monocular digital microscope.
B-150DB	Binocular digital microscope.
DM-15	Binocular digital microscope.
DM-20	Binocular digital microscope, PL objectives.
DM-25	Binocular microscope, with LCD screen.





DM-5

Monocular, 0.48 Mpx



DM-15

Binocular, 2.0 Mpx



DM-20

Binocular, PLAN objectives,
3.2 Mpx



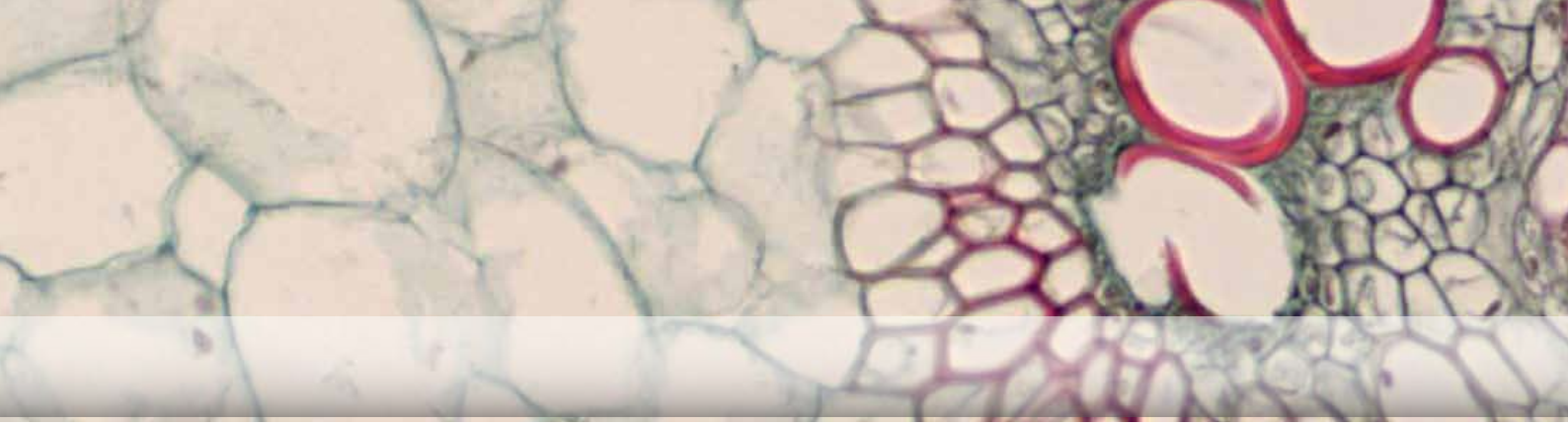
B-150DB

Binocular, 3.14 Mpx



B-150DM

Monocular, 1.3 Mpx



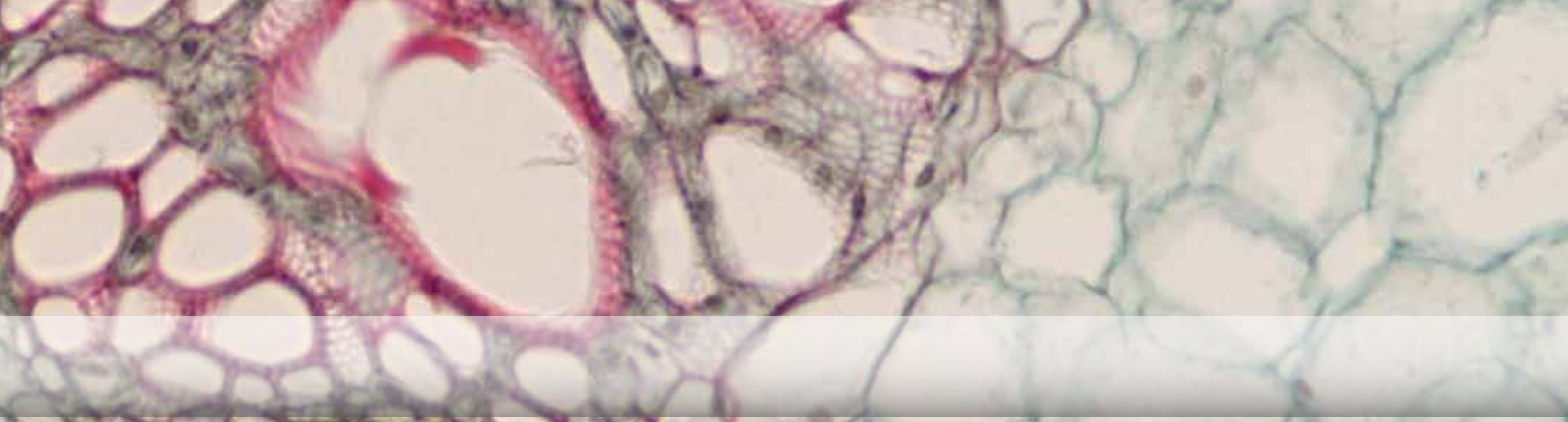
DM Series - DM-5

Belonging to the “entry-level” models among OPTIKA digital biological microscopes, the DM-5 is ideal for primary schools.

This easy-to-use microscope, combined with a high construction quality and top-class optical system makes the study of biology a real pleasant experience.

The microscope comes with all necessary equipment, thus allowing an immediate use without the need of additional accessories.





DM Series - DM-5

Technical Features

Head:	Digital, monocular, 360° rotating, 45° inclined
Eyepiece:	WF10x/16mm
Nosepiece:	Triple, reversed
Objectives:	Achromatic 4x (0.10), 10x (0.25), 40x (0.65)
Working stage:	Rotating round stage dia. 90mm; moving range: 5mm; slide clips
Focusing system:	Coarse and fine with different axis
Illumination:	White led, non-rechargeable, with brightness control
Digital camera resolution:	800X600pixels (0.48Mp)
Output:	2.0 USB port
Software:	OPMIAS (Optika Micro Image Analysis Software), for Windows XP/Vista/Seven, 32-64 bit
Packing:	Carton box with inner foam



DM Series - DM-5UP

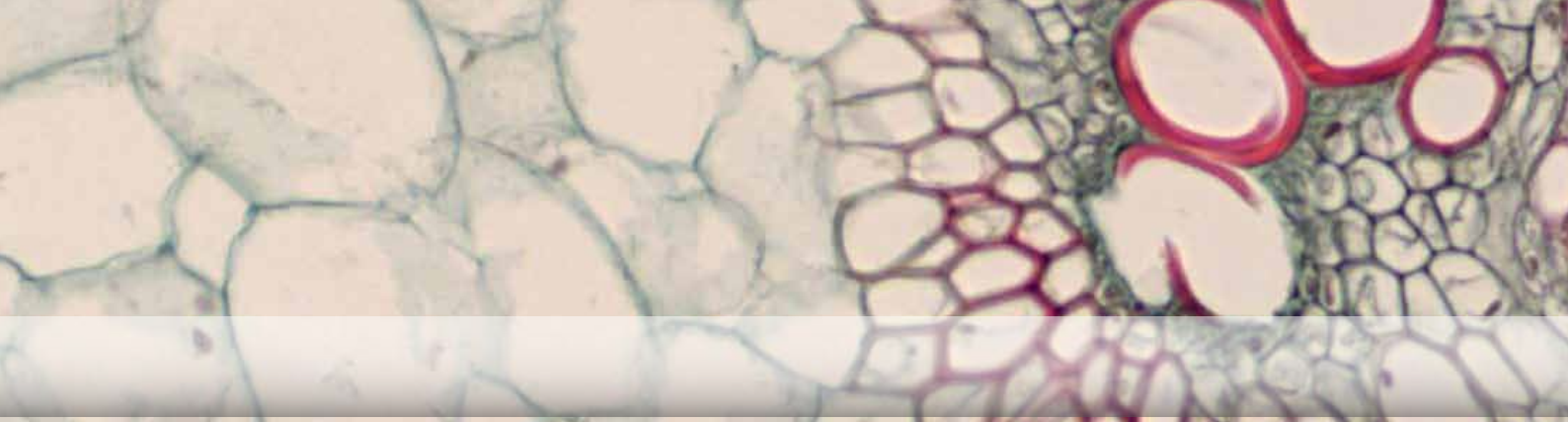
Monocular digital microscope

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



**USB POWERED
OR EXTERNAL POWERED**





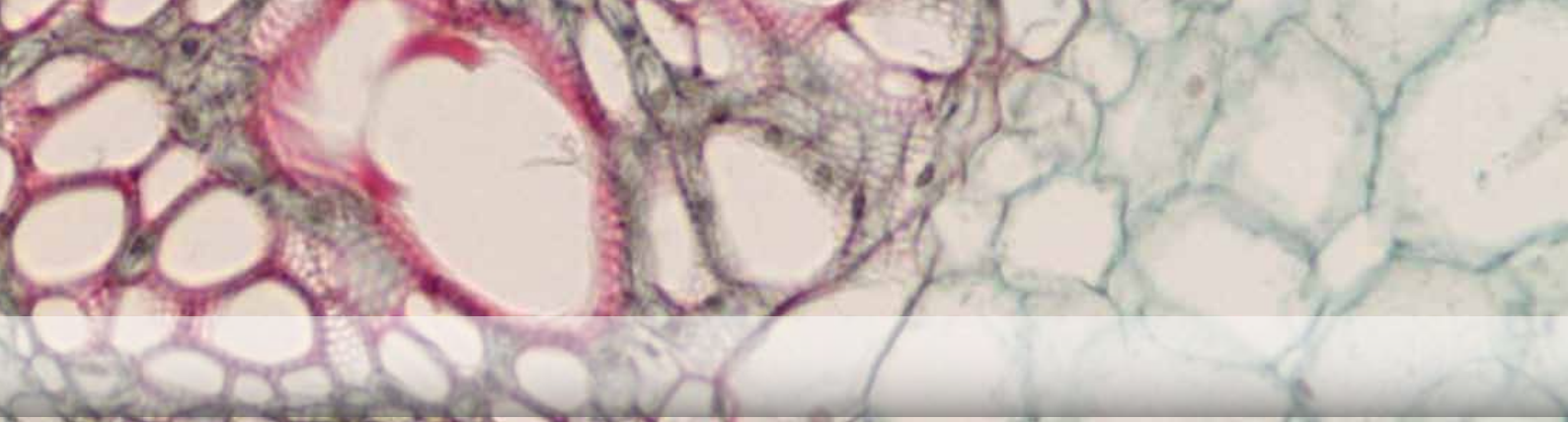
DM Series - B-150DM

An intermediate model among OPTIKA digital biological microscopes, the B-150DM and B-150DB are the best solution for secondary school students. The main strengths are its optical and mechanical qualities, and its particularly rich setup, as it consists of a mechanical stage with coaxial knobs and a set of high-quality achromatic objectives.

B-150DM: Technical Features

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/Seven, 32-64 bit
Packing:	Carton box with inner foam



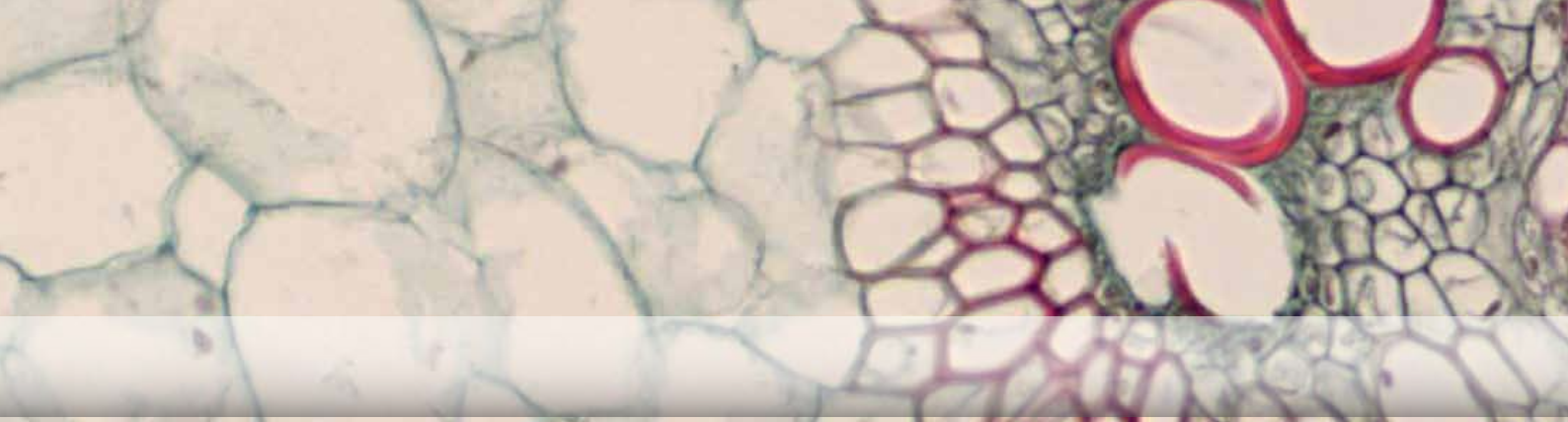


DM Series - B-150DB

B-150DB: Technical Features

Head:	Digital, Binocular, 360° rotating, 30° inclined
Eyeiece:	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/Seven, 32-64 bit
Packing:	Carton box with inner foam





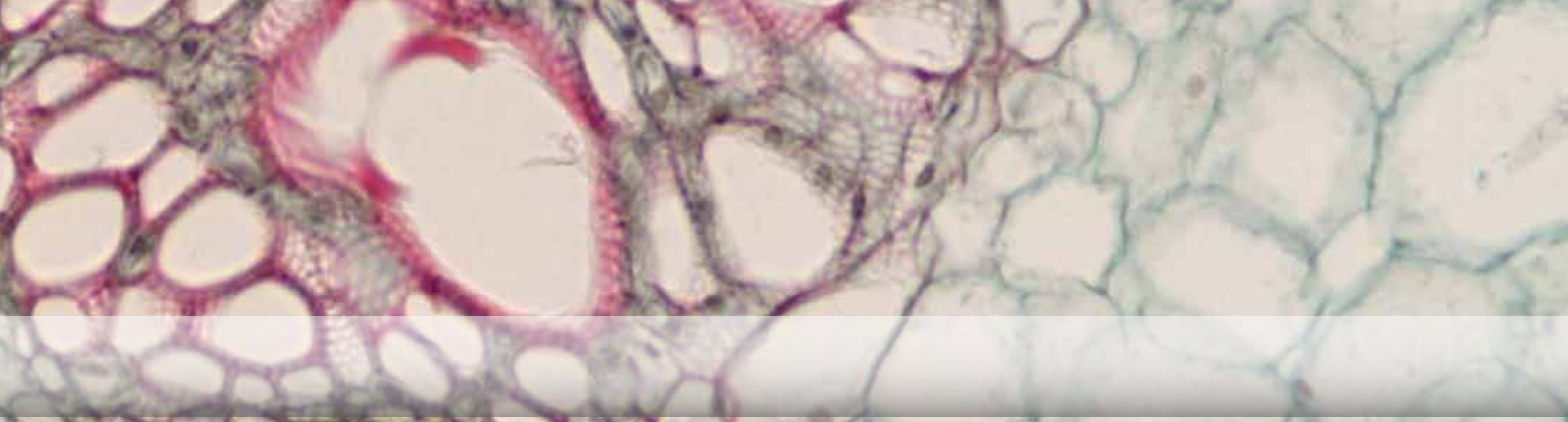
DM Series - DM-15

An advanced model among OPTIKA digital biological microscopes, the DM-15 is especially designed for biology teachers. The included 2Mpixel digital camera is its main feature. The microscope DM-15 has a binocular head designed for a 20mm field of vision, ideal for teachers. Its structure, mounted components and high-quality optical and mechanical systems make it an ideal instrument for professional use.



Technical Features

Head:	Digital, Binocular, 360° rotating, 30° inclined
Eyepiece:	WF10X/20mm
Nosepiece:	Quadruple, reversed
Objectives:	Achromatic 4x (0.10), 10x (0.25), 40x (0.65), 100x (1.25) (oil immersion)
Working stage:	Double layer with mechanical sliding stage, 160x142mm, mov. range 76x52mm
Focusing system:	Coaxial coarse and fine, with focusing stop mechanism
Condenser:	1.25 N.A. Abbe type, with centring system
Illumination:	X-LED system with brightness control
Digital camera resolution:	1600x1200pixels, 2.0M
Output:	USB 2.0 port
Software:	OPMIAS (Optika Micro Image Analysis Software) for Windows XP/Vista/Seven, 32-64 bit
Packing:	Carton box with inner foam



DM Series - DM-20

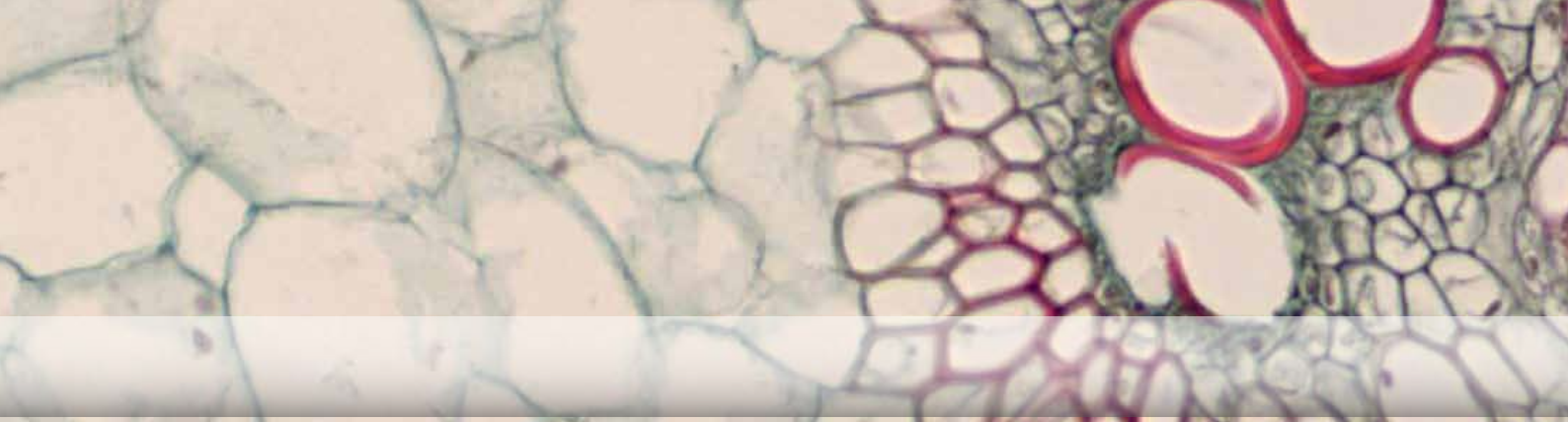
The most advanced model among OPTIKA digital biological microscopes, the DM-20 is an upgrade over the DM-15 model. The digital camera mounted on its binocular head has a 3.2Mpixel resolution and all objectives are planachromatic. Its advanced features and excellent optical and mechanical characteristics make it a point of reference in the field of digital microscopy.



DM-20

Technical Features

Head:	Digital, Binocular, 360° rotating, 30° inclined
Eyepiece:	WF10X/20mm
Nosepiece:	Quadruple, reversed
Objectives:	PLAN Achromatic 4x (0.10), 10x (0.25), 40x (0.65), 100x (1.25) (oil immersion)
Working stage:	Double layer with mechanical sliding stage, 160x142mm, mov. range 76x52mm
Focusing system:	Coaxial coarse and fine, with focusing stop mechanism
Condenser:	1.25 N.A. Abbe type, with centring system
Illumination:	X-LED system with brightness control
Digital camera resolution:	2048x1536pixels, 3.2M
Output:	USB 2.0 port
Software:	OPMIAS (Optika Micro Image Analsys Software) for Windows XP/Vista/Seven, 32-64 bit
Packing:	Carton box with inner foam



DM Series - DM-25

This model is similar to the DM-15 but it is provided with a 3,14Mpixels camera with a 2,5" LCD screen.

The camera also has an extra output for the analog video signal (S-video and PAL), that allows the camera to be directly connected to a TV set. 16MB of internal memory with an additional slot for flash memory card (up to 3GB). Maximum video resolution: 640x480 pixels.

- built-in 2.5" LCD screen (rotating and tilting)
- Zoom function
- Internal picture storing function
- Video storing function
- SD memory card slot
- 1GB SD card included
- Video output
- USB output (to PC)



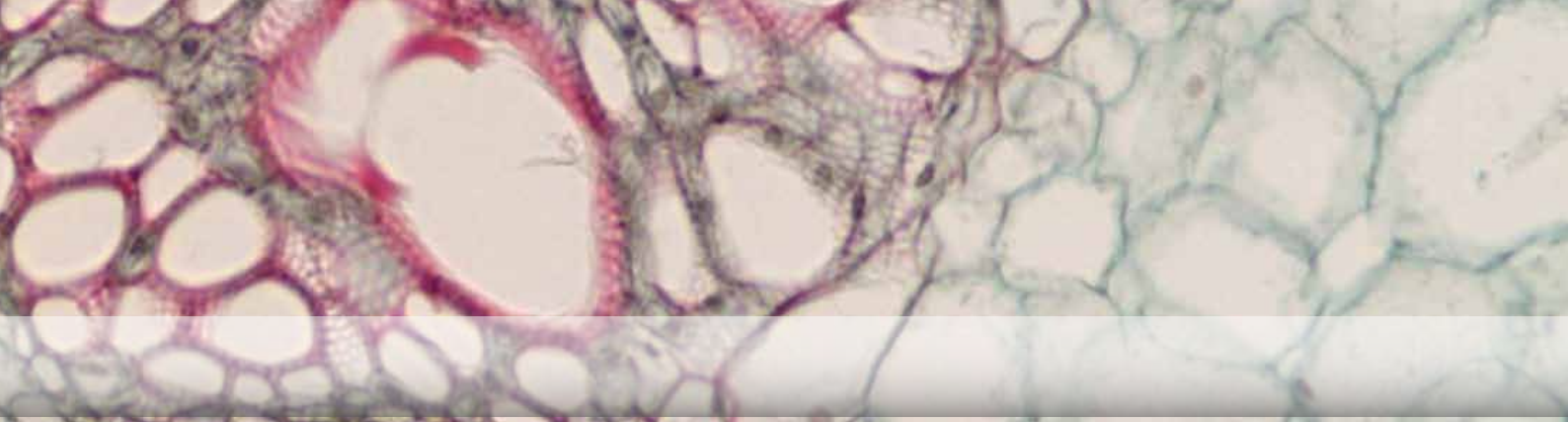
**WITH
LCD SCREEN**

DM-25



Technical Features

Head:	Digital, Binocular, 360° rotating, 30° inclined
Eyepiece:	WF10X/20mm
Nosepiece:	Quadruple, reversed
Objectives:	Achromatic 4x, 10x, 40x, 100x (oil immersion)
Working stage:	Double layer with mechanical sliding stage, 160x142mm, moving range 76x52mm
Focusing system:	Coaxial coarse and fine, with focusing stop mechanism
Condenser:	1.25 N.A. Abbe type, with centring system
Illumination:	X-LED system with brightness control
Digital camera resolution:	2048x1536pixels, 3.14M
Output:	2.0 USB port, S-Video port, AV port
Software:	OPTIKA Vision Lite for Windows XP/Vista/Seven, 32-64 bit
Packing:	Carton box with inner foam



DM Series - Technical specifications

	DM-5	B-150DM	B-150DB	DM-15	DM-20	DM-25
Resolution	800x600 pixels (0.48 Mp)	1280x1024 pixels (1.3Mp)	2048x1536 pixels (3.14Mp)	1600x1200 pixels (2.0Mp)	2048x1536 pixels (3.1Mp)	2048x1536 pixels (3.14Mp)
Sensor	1/4"CMOS	1/3,2"CMOS	1/2,5"CMOS	1/3"CMOS	1/2"CMOS	1/2"CMOS
Pixel Size	7,9x7,9 μm	2,8x2,8 μm	2,2x2,2 μm	2,8x2,8 μm	3,2x3,2 μm	3,18x3,18 μm
Resolution & Frame Rate	800x600 25 fps"	1280x1024 15 fps	2048x1536 6 fps	1600x1200 15 fps	2048x1536 6 fps	
		1024x768 20 fps	1280x1024 15 fps	800x600 30 fps	1280x1024 15 fps	
			1024x768 20 fps		1024x768 20 fps	640x480 25fps
Digital camera resolution						2048x1536 3,14Mpixels
Sensitivity	2.0 V/Lux-sec	1.0 V/Lux-sec	1.0 V/Lux-sec	1.0 V/Lux-sec	1.0 V/Lux-sec	1.0 V/Lux-sec
White Balance	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
S/N Ratio	≥ 50 dB	≥ 42 dB	≥ 40 dB	≥ 56 dB	≥ 52 dB	≥ 52 dB
Dynamic Range	≥ 60 dB	≥ 71 dB	≥ 66 dB	≥ 71 dB	≥ 60 dB	≥ 60 dB
Digital Port	USB 2.0	USB2.0	USB2.0	USB2.0	USB2.0	USB2.0
Imaging Software	OPMIAS	OPTIKA Vision Lite	OPTIKA Vision Lite	OPMIAS	OPMIAS	OPTIKA Vision Lite
System Requirements	Operating system: Windows XP (SP2, SP3), Vista and Seven, 32-64 bit					

DM Series - Accessories

DM-5 - DM-5UP

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	Micrometer eyepiece WF10x/18mm
M-137	Achromatic objective 4x/0.10
M-138	Achromatic objective 10x/0.25
M-139	Achromatic objective 20x/0.40
M-141	Achromatic objective 40x/0.65
M-142	Achromatic objective 60x/0.85
M-143	Achromatic objective 100x/1.25 (oil)
M-031	Dust cover, type 3

DM-15 - DM-25

M-301	Eyepiece high-point WF10x/20mm
M-302	Eyepiece high-point WF16x/12mm
M-303	Micrometer eyepiece high-point WF10x/20mm
M-005	Micrometric slide 26x76 mm. Range: 1mm, div.: 0,01mm
M-310	Objective achromatic 4x/0.10
M-311	Objective achromatic 10x/0.25
M-312	Objective achromatic 20x/0.40
M-313	Objective achromatic 40x/0.65
M-314	Objective achromatic 60x/0.80
M-315	Objective achromatic 100x/1.25 (oil)
M-031	Dust cover type 3

DM-20

M-301	Eyepiece high-point WF10x/20mm
M-302	Eyepiece high-point WF16x/12mm
M-303	Micrometer eyepiece high-point WF10x/20mm
M-005	Micrometric slide 26x76 mm. Range: 1mm, div.: 0,01mm
M-320	Objective planachromatic 4x/0.10
M-321	Objective planachromatic 10x/0.25
M-322	Objective planachromatic 20x/0.40
M-323	Objective planachromatic 40x/0.65
M-324	Objective planachromatic 60x/0.80
M-325	Objective planachromatic 100x/1.25 (oil)
M-031	Dust cover type 3



15103 - Lens cleaner, 50ml

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

OPTIKA SRL

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