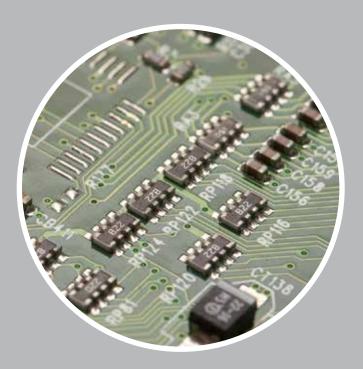


INDUSTRIAL Microscopes





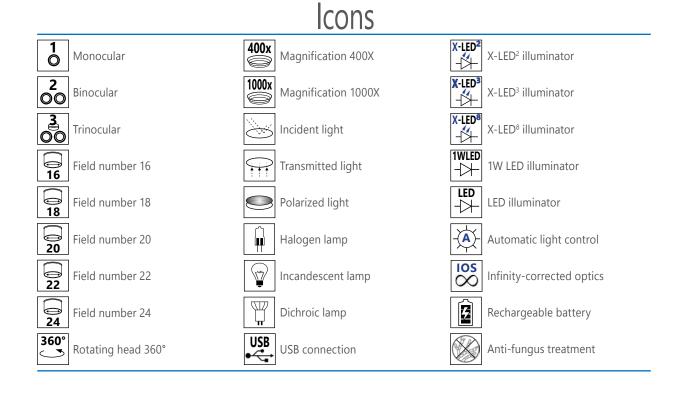
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Professional entry-level stereomicroscopes LAB LAB-10 / LAB-20

LAB Series Professional entry-level stereomicroscopes



LAB Series

The LAB series can be considered as the entry-level of the OPTIKA professional stereomicroscopes range. The two models have been designed for end users who need professional quality at low cost.

LAB-10	Stereomicroscope 20x-40x, LED incident & transmitted illumination.
LAB-20	Stereozoom microscope 7x45x, LED incident & transmitted illumination.



LAB Series



Heads

Binocular heads, 360° rotating and 45° inclined. Interpupillary distance

Adjustable between 51 and 75 mm.

Eyepieces

WF10x/20 mm.

LAB-10: Dioptric compensation adjustable on left eyepiece tubes. LAB-20: Dioptric compensation adjustable on both eyepiece tubes.

Specimen stage

Fitted with a semi-transparent disc for transmitted light with specimen clips.

Objectives

LAB-10: with double magnification (2x-4x) that can be selected by rotating the lens unit. Working distance 80mm. LAB-20: continuous zoom 0,7x ...4,5x. (6,43:1 zoom factor). Working distance: 85 mm.

Stand

Fixed arm type with focusing mechanism.

Focusing

Rack and pinion controlled by a pair of knobs placed on both sides of the stand.

Illumination

Double adjustable illuminator for incident and transmitted light fitted with two high-efficiency LED light sources. The angle of the incident illuminator is adjustable. Voltage: 110/240V ac.

LAB Series - Technical specifications

Model	Head	Eyepiece	Objectives	Working Distance	Stand	Illuminator
LAB-10	Binocular	WF 10x/20mm	2x - 4x selectable by rotating	80 mm	Pillar stand with fixed holder	Double incident and transmitted light. High-efficiency LED light sources with separate brightness controls
LAB-20	Binocular	WF 10x/20mm	0,7x4,5x zoom	85 mm	Pillar stand with fixed holder	Double incident and transmitted light. High-efficiency LED light sources with separate brightness controls

LAB Series - Accessories

LAB

ST-001.1	Eyepieces (pair) WF5x/22mm (for LAB series only).
ST-401	Eyepieces (pair) WF10x/20 mm.
ST-402	Eyepieces (pair) WF15x/15 mm.
ST-403	Eyepieces (pair) WF20x/10 mm.
ST-405	Eyepiece micrometer WF10x/20mm.
ST-085	Additional lens 0,5x (w.d. 165mm).
ST-086	Additional lens 1,5x (w.d. 47mm).
ST-415	Eyecups (pair).
ST-029	Dust cover type 12.
ST-092	Protective glass for stereohead.
ST-417	Round plastic stage for LAB 10 and LAB 20.
M-114	C-Mount adapter for 1/2" sensor.
M-116	C-Mount adapter for 2/3" sensor.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes).

* Only for LAB-20



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





LAB-20

LAB-10











Professional stereozoom microscopes SZM SZM-1 / SZM-LED1 / SZM-2 / SZM-LED2 / SZM-3 / SZM-4

SZM Series

Professional stereozoom microscopes



SZM Series

The stereomicroscopes of the SZM series are instruments designed for laboratory and industry applications.

Their optical and mechanical qualities place them at the top of their category and their price/quality ratio is excellent. The stereomicroscopes share the same optical system consisting of binocular and trinocular heads with zoom objectives.

The six models of the SZM series find their proper application wherever professional instruments are required. Several accessories provide a wide choice of configurations and applications.

SZM-1	Binocular stereozoom microscope 7x45x, halogen incident & transmitted illumination.
SZM-LED1	Binocular stereozoom microscope 7x45x, LED incident & transmitted light.
SZM-2	Trinocular stereozoom microscope 7x45x, halogen incident & transmitted illumination.
SZM-LED2	Trinocular stereozoom microscope 7x45x, LED incident & transmitted light.
SZM-3	Binocular stereozoom microscope 7x45x, overhanging stand.
SZM-4	Trinocular stereozoom microscope 7x45x, overhanging stand.

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OPTIKA





SZM Series



Heads

Binocular and trinocular, 360° rotating and 45° inclined. **Interpupillary distance** Adjustable between 51 and 75 mm. **Dioptric compensation** On both eyepiece tubes. **Eyepieces** EWF10x/20 mm **Objectives** Parfocal achromatic zoom 0,7x...4,5x (6,428:1 zoom factor). **Specimen stage:** Fitted with a black/white disc, specimen clips and a frosted disc for transmitted light. Focusing Rack and pinion mechanism controlled by a pair of knobs placed on both sides of the stand. Stand Models SZM 1/2: Pillar stand 30 mm diameter and 25 cm high, base: 26x20x6h cm. Models SZM-LED 1/2: Pillar stand 32 mm diameter and 315 mm high, base 27x21x3h cm. Models SZM 3/4: Overhanging stand 42 cm high, 45 cm horizontal arm length, base 23x23cm. Illumination Models SZM-1/2: Double, adjustable incident and transmitted light, fitted with two 12V/15W halogen bulbs. The angle of the incident illumination is adjustable.

The two models **SZM-LED1/2** are equipped with a double high-power LED.

SZM Series - Technical specifications

Model	Head	Eyepiece	Objectives	Working Distance	Stand	Illuminator
SZM-1	Binocular	WF 10x/20mm	0,7x4,5x zoom	100 mm	Pillar stand	Incident and transmitted 12V/15W halogen
SZM-LED1	Binocular	WF 10x/20mm	0,7x4,5x zoom	100 mm	Pillar stand	Incident: high power single X-LED Transmitted: LED diffusing disc
SZM-2	Trinocular	WF 10x/20mm	0,7x4,5x zoom	100 mm	Pillar stand	Incident and transmitted 12V/15W halogen
SZM-LED2	Trinocular	WF 10x/20mm	0,7x4,5x zoom	100 mm	Pillar stand	Incident: high power single X-LED Transmitted: LED diffusing disc
SZM-3	Binocular	WF 10x/20mm	0,7x4,5x zoom	100 mm	Overhanging stand	Without illuminator
SZM-4	Trinocular	WF 10x/20mm	0,7x4,5x zoom	100 mm	Overhanging stand	Without illuminator

SZM Series - Accessories

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ST-081	Eyepieces (pair) WF10x/20 mm.
ST-082	Eyepieces (pair) WF15x/15 mm.
ST-083	Eyepieces (pair) WF20x/10 mm.
ST-084	Eyepiece micrometer 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.SZM	Polarising set (filters and rotating stage) for SZM.
ST-088.SZMLED	Polarising set (filters and rotating stage) for SZM LED.
ST-040.SZM	Darkfield condenser SZM.
ST-040.SZMLED	Darkfield condenser SZM-LED.
ST-100.SZM	Hand moving stage SZM.
ST-100.SZMLED	Hand moving stage SZM-LED.
ST-666.SZM	Heating stage for stereomicroscopes SZM.
ST-666.SZMLED	Heating stage for stereomicroscopes SZM LED.
ST-110.SZM	Moving stage, with coaxial knobs SZM.
ST-110.SZMLED	Moving stage, with coaxial knobs SZM-LED.
ST-111.SZM	Moving stage, with micrometric screws SZM.
ST-111.SZMLED	Moving stage, with micrometric screws SZM-LED.
ST-041	Sample clip.
ST-089	Reflex camera adapter for FULL FRAME sensor.
ST-090	Focusable C-Mount adapter for 1/3" sensor.
ST-090.1	Focusable C-Mount adapter for 1/2" sensor.
ST-036	Eyecups (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	C-Mount adapter for 1/2" sensor.
M-116	C-Mount adapter for 2/3" sensor.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes).

* For LED version special adapter required



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

15104 - Lens cleaner, 50ml

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







Laboratory stereozoom microscopes SZN SZN-1 / SZN-2 / SZN-3 / SZN-4 / SZN-5 / SZN-6 / SZN-7 / SZN-8 / SZN-9 / SZN-10

SZN Series





SZN Series

The stereomicroscopes of the SZN series are instruments designed for laboratory and industry applications.

Their optical and mechanical qualities place them at the top of their category and the price/quality ratio is excellent. The stereomicroscopes share the same optical system consisting of binocular and trinocular heads with zoom objectives.

The ten models of the SZN series find their proper application wherever professional instruments are required. Several accessories provide an ample choice of configurations and applications.

SZN-1	Binocular zoom stereomicroscope 6,7x45x, simple pillar stand.
SZN-2	Trinocular zoom stereomicroscope 6,7x45x, simple pillar stand.
SZN-3	Binocular zoom stereomicroscope 6,7x45x, stand with X-Led incident and Led transmitted illuminators.
SZN-4	Trinocular zoom stereomicroscope 6,7x45x, stand with X-Led incident and Led transmitted illuminators.
SZN-5	Binocular zoom stereomicroscope 6,7x45x, stand with X-Led incident (2 arms) and Led transmitted illuminators.
SZN-6	Trinocular zoom stereomicroscope 6,7x45x, stand with X-Led incident (2 arms) and Led transmitted illuminators.
SZN-7	Binocular zoom stereomicroscope 6,7x45x, simple overhanging stand.
SZN-8	Trinocular zoom stereomicroscope 6,7x45x, simple overhanging stand.
SZN-9	Binocular zoom stereomicroscope 6,7x45x, hinged overhanging stand.
SZN-10	Trinocular zoom stereomicroscope 6,7x45x, hinged overhanging stand.



SZN Series

Heads

Binocular or trinocular, 360° rotating and 45° inclined.

Interpupillary distance

Adjustable between 55 and 75 mm. Dioptric compensation on both eyepiece tubes.

Eyepieces

EWF10x/22mm, high-point.

Working distance

110 mm.

Objectives

Parfocal achromatic zoom 0,67x...4,5x with continuously variable magnification (max. 45x in the standard configuration, can be increased to 225x by using additional accessories).

Specimen stage:

Except overhanging models, the instruments are fitted with a black/white disc for contrast and specimen clamps.

Focusing

By means of rack and pinion system, controlled by a pair of knobs.

Illumination

High efficiency X-LED³ incident illuminators (single or double arm) and 100 mm white LED diffusing disc as transmitted illuminator (60 chip LEDs).

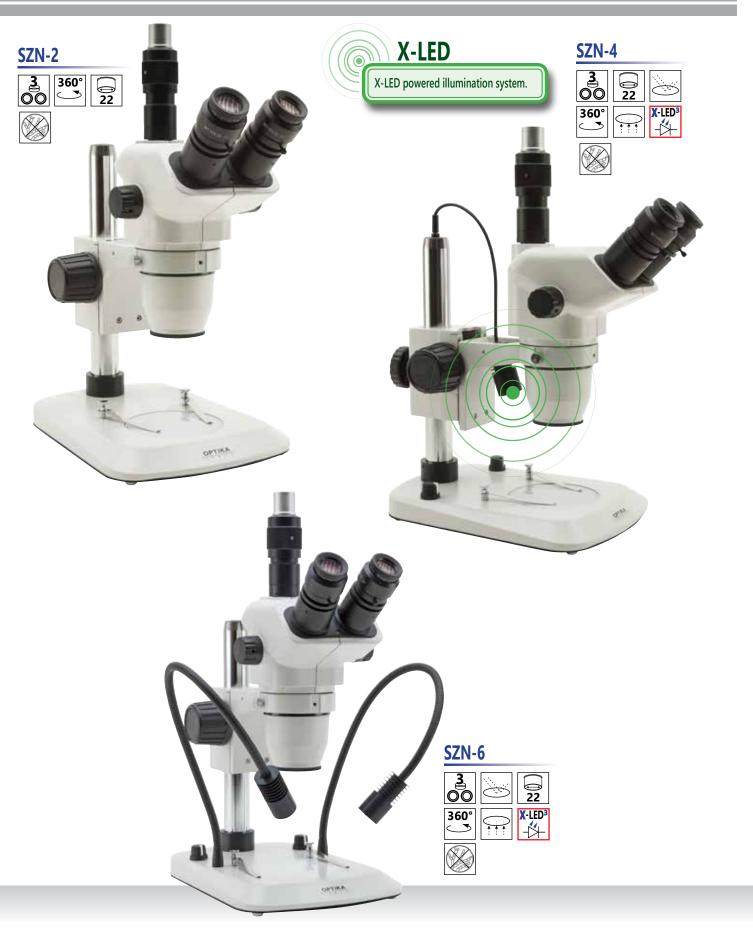
Stands

The series has different stands for every requirement. Simple for vision without transmitted illumination; base for incident and transmitted illumination; overhanging stands (simple or hinged), that allow very large objects to be viewed and to be handled or worked.



100mm wide illumination LED disc

SZN Series - Models



SZN Series - Models



SZN Series - Models



SZN Series - Technical specifications

Model	Head	Eyepiece	Objectives	Working Distance	Stand	Illumination
SZN-1	Binocular	EWF10x/22	0,674,5x	110mm	Pillar stand with rack and pinion system	Without illumination.
SZN-2	Trinocular	EWF10x/22	0,674,5x	110mm	Pillar stand with rack and pinion system	Without illumination.
SZN-3	Binocular	EWF10x/22	0,674,5x	110mm	Pillar stand with rack and pinion system	Transmitted: 100 mm LED disc (60 chip LEDs) Incident: OPTIKA X-LED ³ .
SZN-4	Trinocular	EWF10x/22	0,674,5x	110mm	Pillar stand with rack and pinion system	Transmitted: 100 mm LED disc (60 chip LEDs) Incident: OPTIKA X-LED ³ .
SZN-5	Binocular	EWF10x/22	0,674,5x	110mm	Pillar with rack and pinion system	Transmitted: 100 mm LED disc (60 chip LEDs) Incident: double arm OPTIKA X-LED ³ .
SZN-6	Trinocular	EWF10x/22	0,674,5x	110mm	Pillar with rack and pinion system	Transmitted: 100 mm LED disc (60 chip LEDs) Incident: double arm OPTIKA X-LED ³ .
SZN-7	Binocular	EWF10x/22	0,674,5x	110mm	Simple overhanging stand	Without illumination.
SZN-8	Trinocular	EWF10x/22	0,674,5x	110mm	Simple overhanging stand	Without illumination.
SZN-9	Binocular	EWF10x/22	0,674,5x	110mm	Hinged overhanging stand	Without illumination.
SZN-10	Trinocular	EWF10x/22	0,674,5x	110mm	Hinged overhanging stand	Without illumination.

SZN Series - Accessories

Evenieces

	Lycpicces
ST-141	Eyepieces (pair) WF10x/22mm.
ST-142	Eyepieces (pair) WF15x/16mm.
ST-143	Eyepieces (pair) WF20x/12mm.
ST-144	Eyepieces (pair) WF25x/9mm.
ST-145	Eyepiece micrometer WF10x/22mm.
	Additional lenses
SAO0.3	Additional lens 0,3x (w.d. 287mm).
SAO0.5	Additional lens 0,5x (w.d. 185mm).
SAO0.75	Additional lens 0,7x (w.d. 120mm).
SAO1.5	Additional lens 1,5x (w.d. 49mm).
SAO2	Additional lens 2x (w.d. 28mm).
	Photo & Video adapters
ST-146	Photo adapter for REFLEX camera with FULL FRAME sensor.
ST-147	Focusable C-Mount adapter for 1/2" sensor.
ST-147.1	C-Mount adapter for 1/2" sensor.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
	Additional Accessories
ST-088.SZN	Polarising set (filters and rotating stage).
ST-040.SZN	Darkfield condenser.
ST-100.SZN	Hand moving stage.
ST-110.SZN	Moving stage, with coaxial knobs.
ST-111.SZN	Moving stage, with micrometric screws.
ST-666.SZN	Heating stage for stereomicroscopes.
M-114	C-Mount adapter for 1/2" sensor.
M-116	C-Mount adapter for 2/3" sensor.
M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes).



How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.

15104 - Lens cleaner, 50ml

without leaving residue or odor.





Modular stereozoom microscopes for industry **MODULAR**

SZM-B / SZM-T / SZN-B / SZN-T / SZP-6 / SZP-6ERGO / SZP-8 SZP-8ERGO / SZP-10 / SZP-10ERGO / ST-150 / ST-151 / ST-152 ST-153 / ST-155 / ST-156 / SZ-STL1 / SZ-STL1H / SZ-STL2 / SZ-STL2H SZ-STL8 / SZ-STL5 / SZ-STL5LED

MODULAR Series

Modular stereozoom microscopes for industry



MODULAR Series - Heads

The MODULAR series has been designed to match professional needs in industrial field. With a wide range of stereozoom heads and special stands, it allows you to build your own model on the basis of your needs.

SZM-B	Stereomicroscope binocular zoom head 7x45x, with eyepieces.
SZM-T	Stereomicroscope trinocular zoom head 7x45x, with eyepieces.
SZN-B	Stereomicroscope binocular zoom head 6,7x45x, with eyepieces.
SZN-T	Stereomicroscope trinocular zoom head 6,7x45x, with eyepieces.
SZP-6	Stereomicroscope binocular zoom head 8x50x, with eyepieces, GALILEAN optical system.
SZP-6ERGO	Stereomicroscope binocular zoom ERGO head 8x50x, with eyepieces, GALILEAN optical system.
SZP-8	Stereomicroscope binocular zoom head 8x64x, with eyepieces, GALILEAN optical system.
SZP-8ERGO	Stereomicroscope binocular zoom ERGO head 8x64x, with eyepieces, GALILEAN optical system.
SZP-10	Stereomicroscope binocular zoom head 8x80x, with eyepieces; GALILEAN optical system.
SZP-10ERGO	Stereomicroscope binocular zoom ERGO head 8x80x, with eyepieces; GALILEAN optical system.



MODULAR Series - SZM Heads





SZM-B Binocular stereozoom head

45° inclined, 360° rotatable; WF10x/20mm high-point widefield eyepieces; Interpupillary distance: 51-75 mm; Dioptric adjustment: +/-5 dp; 0,7x...4,5x zoom objective; Zoom ratio: 6,43:1; Working distance: 100 mm.

SZM-T Trinocular stereozoom head

45° inclined, 360° rotatable; WF10x/20mm high-point widefield eyepieces; Interpupillary distance: 51-75 mm; Dioptric adjustment: +/-5 dp; 0,7x...4,5x zoom objective; Zoom ratio: 6,43:1; Working distance: 100 mm.

MODULAR Series - Accessories

Eyepieces

ST-081	Eyepieces (pair) WF10x/20 mm.
ST-082	Eyepieces (pair) WF15x/15 mm.
ST-083	Eyepieces (pair) WF20x/10 mm.
ST-084	Eyepiece micrometer WF10x/20 mm.

Additional lenses

- 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).

Photo & Video adapters

Reflex camera adapter for FULL FRAME sensor.
Focusable C-Mount adapter for 1/3" sensor.
Focusable C-Mount adapter for 1/2" sensor.
Photo adapter for APS-C and Full Frame Reflex cameras.
C-Mount adapter for 1/2" sensor
C-Mount adapter for 2/3" sensor.
Ring adapter, 30mm (for monocular and binocular microscopes).



How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.

MODULAR Series - SZN Heads

(11/1))

SZN-B Binocular stereozoom head

45° inclined, 360° rotatable; WF10x/22mm high-point widefield eyepieces; Interpupillary distance: 55-75 mm; Dioptric adjustment: +/-5 dp: 0,67x...4,5x zoom objective; Zoom ratio: 6,72; Working distance: 110 mm.

SZN-T Trinocular stereozoom head

45° inclined, 360° rotatable; WF10x/22mm high-point widefield eyepieces; Interpupillary distance: 55-75 mm; Dioptric adjustment: +/-5 dp:; 0,67x...4,5x zoom objective; Zoom ratio: 6,72; Working distance: 110 mm.



MODULAR Series - Accessories

	Eyepieces		Photo & Video adapters
ST-141	Eyepieces (pair) WF10x/22mm.	ST-146	Photo adapter for REFLEX camera with FULL FRAME sensor.
ST-142	Eyepieces (pair) WF15x/16mm.	ST-147	Focusable C-Mount adapter for 1/3" sensor.
ST-143	Eyepieces (pair) WF20x/12mm.	ST-147.1	Focusable C-Mount adapter for 1/2" sensor.
ST-144	Eyepieces (pair) WF25x/9mm.	M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
ST-145	Eyepiece micrometer WF10x/22mm.	M-114	C-Mount adapter for 1/2" sensor.
		M-116	C-Mount adapter for 2/3" sensor.
	Additional lenses	M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes).
SAO0.3	Additional lens 0,3x (w.d. 287mm).		5 1 1
SAO0.5	Additional lens 0,5x (w.d. 185mm).		
SAO0.75	Additional lens 0,7x (w.d. 120mm).	H I I I I I I I I I I I I I I I I I I I	low to connect the cameras to our microscopes.
SAO1.5	Additional lens 1,5x (w.d. 49mm).		Please refer to the Adapter reference list on Digital section.
SAO2	Additional lens 2x (w.d. 28mm).		

MODULAR Series - SZP Heads

SZP-6 Stereomicroscope binocular zoom head 8x...50x,

with eyepieces, GALILEAN optical system

30° inclined, 360° rotatable; WF10x/22mm high-point widefield eyepieces; Interpupillary distance: 52-75 mm; Dioptric adjustment: +/-5 diopters; Objective: 1xPL; 0,8x....5x zoom objective; Zoom ratio: 6:1; Working distance: 80 mm.

SZP-8 Stereomicroscope binocular zoom head 8x...64x, with eyepieces, **GALILEAN optical system**

30° inclined, 360° rotatable; WF10x/22mm high-point widefield eyepieces; Interpupillary distance: 52-75 mm; Dioptric adjustment: +/-5 diopters; Objective: 1xPL; 0,8x....6,4x zoom objective; Zoom ratio: 8:1; Working distance: 80 mm.

SZP-10 Stereomicroscope binocular zoom head 8x...80x, with eyepieces; **GALILEAN optical system**

30° inclined, 360° rotatable; WF10x/22mm high-point widefield eyepieces; Interpupillary distance: 52-75 mm; Dioptric adjustment: +/-5 diopters; Objective: 1xPL; 0,8x....8x zoom objective; Zoom ratio: 10:1; Working distance: 80 mm.

Other available models SZP-6ERGO, SZP-8ERGO, SZP-10ERGO Binocular ERGO head 0°-35° inclined, 360° rotatable Diopter adjustment on both eyepieces +/- 5 diopters.

MODULAR Series - Accessories

Eyepieces

ST-160	Eyepiece (pair) WF10x/22mm.
ST-161	Eyepiece (pair) WF15x/15mm.
ST-162	Eyepiece (pair) WF20x/12mm.
ST-163	Evepiece micrometer WF10x/22mm.

Objectives

ST-165	Objective 0,3x (w.d. 280mm).
ST-166	Objective 0,5x (w.d. 118mm).
ST-167	Objective 2x (w.d. 32,5mm).

Photo & Video attachments and adapters

ST-170 Photo/Video beam splitter - 1 port. ST-171 Photo/Video beam splitter - 2 ports.







ST-172	Iris diaphragm module.
14 470	

- Photo adapter for APS-C and Full Frame Reflex cameras. M-173 ST-174
 - Focusable C-Mount adapter for 1/3" sensor.
- M-114 C-Mount adapter for 1/2" sensor.
- M-116 C-Mount adapter for 2/3" sensor.
- Ring adapter, 30mm (for monocular and binocular microscopes). M-113.1
- ST-176 Protective glass for SZP Series.

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

The MODULAR series has been designed to match professional needs in industrial field. With a wide range of stereozoom heads and special stands, it allows you to build your own model on the basis of your needs.

ST-150	Large stand, pillar type.
ST-151	Large stand, pillar type, with LED illumination.
ST-152	Large stand, fixed arm type.
ST-153	Large stand, fixed arm type, with LED illumination.
ST-155	Large stand, fixed arm type, with LED illumination (incident & transmitted).
ST-156	Large stand, fixed arm type, with LED illumination, coaxial macro & micro focusing knobs.
SZ-STL1	Simple overhanging stand, without head holder.
SZ-STL1H	Simple overhanging stand, with focusing system and head holder.
SZ-STL2	Hinged overhanging stand, without head holder.
SZ-STL2H	Hinged overhanging stand, with focusing system and head holder.
SZ-STL8	Pillar stand type, with double X-LED illuminator, ergonomic flexible arms and 60 chip Leds disc trans-illuminator.
SZ-STL5	Industrial stand, with table clamp and holder for wall mount.
SZ-STL5LED	Industrial stand, with table clamp and holder for wall mount with double X-LED illuminator.





ST-150

Large plain stand with head holder and focusing mechanism. Pillar type. Base: 320x280mm. Pillar: Ø32x360mm.



ST-151

Large plain stand with head holder and focusing mechanism. LED trans-illuminator with intensity control. Pillar type. Base: 320x280mm. Pillar: Ø32x360mm.





ST-152

Large plain stand with head holder and focusing mechanism. Fixed arm type. Base: 320x280mm. Fixed arm: 360mm.



ST-153

Large plain stand with head holder and focusing mechanism. LED trans-illuminator with intensity control. Fixed arm type. Base: 320x280mm. Fixed arm: 360mm.

[[[]]]



ST-155

Modern stand with large base. LED trans-illuminator and LED incident illuminator, both with intensity control. *Head not included.

ST-156

Modern stand with large base. LED trans-illuminator and LED incident illuminator, both with intensity control. Coaxial coarse and fine focusing system.

* Head not included.





SZ-STL1H

Simple overhanging stand with head holder. Base dimensions: 230x230mm. Pillar: Ø32x380mm. Horizontal arm: 430mm.

* Head not included

SZ-STL1

Simple overhanging stand without head holder and without focusing mechanism (head and focus sold separately). Base dimensions: 230x230mm. Pillar: Ø32x380mm. Horizontal arm: 430mm.





SZ-STL2H

Hinged overhanging stand with head holder. Base dimensions: 260x210mm. Pillar: Ø32x380mm. Horizontal arm: 550mm. * Head not included

SZ-STL2

OPTIKA

Simple overhanging stand without head holder and without focusing mechanism (head and focus sold separately). Base dimensions: 260x210mm. Pillar: Ø32x380mm. Horizontal arm: 550mm.



SZ-STL8

SZ-STL8

Modern stand with small base. With 2 incident X-LED³ illuminators on flexible arms, and high brightness LED disc trans -illuminator (100mm diameter).



SZ-STL5

Weight Capacity:3kg~8kg.Maximum Extension:577mm.Depth from Pole (Closed):75mm.Tilt adjustment:+/-90 degree.Swing adjustment:+/-90 degree.* Head not included*/-90 degree.



SZ-STL5LED

Stand with white X-LED³ incident illumination system. Intensity control using two dedicated knobs. LED power: 3.5W (x2), each comparable to a 50W halogen bulb.

- Color temperature: 6300K. LED average lifetime: approx. 50000h. Provided power supply: 6V 2,5A.
- * Head not included





Stereozoom microscope for SMD inspection **SZM-SMD**

SZM-SMD Model

Stereozoom microscope for SMD inspection



SZM-SMD Model

The SZM-SMD has been designed specifically for the inspection of solder connections, rework and repair of electronic circuits and for mounting small electronic components.

One-touch sliding movement allows the user to quickly change from vertical to oblique viewing.

Head

Trinocular, 45° inclined, 360° rotating. Microscope for SMD inspection. **Eyepieces** WF10X/20mm, high-point. **Objectives**

Zoom 0,7x...4,5x. Magnification 7x...45x Illumination

Optional.

SMD attachment:

Rotatable 360°, vertical working distance 103mm. Oblique working distance 103mm. With inclination adjusting mechanism.

CLD-01 + CL-11.1

SZM-SMD Model



SZM-SMD Model - Accessories

Eyepieces

ST-081	Eyepieces (pair) WF10x/20 mm.
ST-082	Eyepieces (pair) WF15x/15 mm.
ST-083	Eyepieces (pair) WF20x/10 mm.
ST-084	Eyepiece micrometer WF10x/20 mm.
	Photo & Video adapters

ST-089	Reflex camera adapter for FULL FRAME sensor.
ST-090	Focusable C-Mount adapter for 1/3" sensor.
ST-090.1	Focusable C-Mount adapter for 1/2" sensor.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
M-114	C-Mount adapter for 1/2" sensor.
M-116	C-Mount adapter for 2/3" sensor.
M-113.1	Ring adapter, 30mm (for monocular and binocular microscopes).



How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.

15104 - Lens cleaner, 50ml

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









Illumination and sample positioning ACCESSORIES CLD-01 / CL-11.1 / CL-12 / CL-15.1 / CL-16.1 / CL-20 / CL-30 / CL-31 / CL-41 / ST-100 / ST-110 / ST-111 / M-666 / ST-666

ACCESSORIES

Illumination and sample positioning



ACCESSORIES

To achieve the ideal work situation, it is important to combine the right microscope with the right accessories. We offer WIDE range of devices: external illuminator, moving stages, heating stages. Choose the right accessories is an essential process in order to obtain the best performance from your microscope.

Cold light X-LED illuminator, 14W extra-efficiency system.
Ring light Led illuminator, with 10-steps on-board brightness control.
Ring light Led illuminator, with continuous and external brightness control.
Ring light fluorescent bulb illuminator, with ON/OFF button.
Double-arm Led illuminator, without brightness control.
Double-arm Led illuminator, with brightness control.
Double-arm X-LED ³ illuminator, with brightness control.



ACCESSORIES Series - CLD-01

CLD-01 Cold light X-LED illuminator, 14W extraefficiency system.

Light source

High power 14W LED Chromaticity coordinates (x,y) 0.320, 0.320 (pure white) Optical power (with double-arm option) Illuminance (at 10 cm distance): 70000 lux Power supply

Brightness control potentiometer. External power supply provided. Input: 110/240 Vac 50/60 Hz; output: 6 Vdc 5A

Dimensions

Length: 200 mm Width: 120 mm Weight: 4,1 Kg







CLD-01 Accessories

The output can be coupled to the following accessories:

- **CL-11.1:** Double-arm optical fiber guide with focusing lenses. Arm length 500 mm.
- CL-17: Focusing lens (pair) with built-in polarizer filter (for CL-11.1)
- CL-12: Ring optical fiber guide (length 700 mm).Guide diameter 16 mm. Diameter of the fixing ring: 55mm.The circular end is suitable for all stereo series.

ACCESSORIES - Illuminators

CL-30

Double-arm Led illuminator.

Light sources: LED (x2); With 2W high efficiency LEDs. Chromaticity coordinates (x,y): 0.320, 0.320; Luminous flux: 80 lm each arm; Emission angle: 35°; Power supply: 12Vdc, 1500 mA; Without brightness control.

CL-31

Double-arm Led illuminator, with brightness control.

Light sources: LED (x2); With 2W high efficiency LEDs. Chromaticity coordinates (x,y): 0.320, 0.320; Luminous flux: 80 lm each arm; Emission angle: 35°; Power supply: 12Vdc, 1500 mA; With brightness control.

CL-41

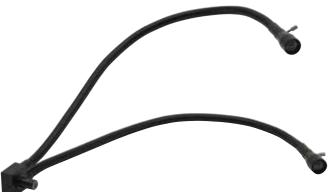
Double-arm X-Led illuminator, with brightness control. With 3,6W high efficiency X-LED³. Chromaticity coordinates (x,y): 0.320, 0.320); Luminous flux: 400 lm each arm; Emission angle: 25°; Power supply: 12Vdc, 1500 mA; With brightness control.

CL-11.1

Double-arm guide for CLD-01, with focusing lenses. Arm length 500 mm. Each arm fitted with focusable lens adapter.

Optional accessory: **CL-17:** lens pair with built-in linear polarizer.





ACCESSORIES - Illuminators

CL-16.1

Uniform illumination on a wide area. Number of single LEDs: 144 4 illumination sectors addressed by individual buttons.



CL-15.1



CL-20

CL-16.1

Ring light Led illuminator, with continuous and external brightness control. External intensity light control. Number of LEDs: 144. Four illumination sectors controlled by individual buttons. Diameter of the fixing ring: 60mm. Suitable for all series.

CL-15.1

Ring light Led illuminator, with 10-steps on-board brightness control.

Intensity light control. Number of LEDs: 72. Four illumination sectors controlled by a MODE button. Diameter of the fixing ring: 60mm. Suitable for all series.

CL-20

Ring light fluorescent bulb illuminator.

Fluorescence ring light illuminator, 8W. Diameter of the fixing ring: 60mm. Suitable for all series.

Optional lenses for arms: CL-21: Spare fluorescent lamp, 8W (for CL-20)

CL-12

Ring optical fiber guide for CLD-01.

Lenght 700 mm, diameter 16 mm. The circular end is suitable for all series , by using the three locking screws. Diameter of the fixing ring: 55mm.







ACCESSORIES

		ST-100
ST-100	Moving stage *	51-100
	Manual positioning stage.	
	Dimensions: 185x145mm.	
	Range: 56mm (X) x 35mm (Y).	
ST-110	Moving stage, with knobs *	
	Manual positioning stage, using knobs for X-Y movements.	
	Dimensions: 180x155mm.	
	Range: 75mm (X) x 54mm (Y).	
ST-111	Moving stage, with micrometer screws *	
	Manual positioning stage, using micrometer screws.	ST-110
	Dimensions: 185x145mm.	
	Range: 25mm (X) x 25mm (Y).	
	Micrometer screws resolution: 0.01mm.	
		· · · · ·
M-666	Heating stage for biological microscopes*	
	Temperature range: 20°C (room temperature) – 50°C.	
	Temperature setting resolution: 1°C.	
	Temperature measuring resolution: 0.1°C.	
	Display: LED display for set temperature.	e e
	LED display for measured temperature.	
	Power supply: Input: 110/220Vac 50/60Hz. Power: 50W.	
		ST-111
ST-666	Heating stage for stereomicroscopes *	
	Temperature range: 20°C (room temperature) – 50°C.	
	Temperature setting resolution: 1°C.	
	Temperature measuring resolution: 0.1°C.	
	Display: LED display for set temperature.	
	LED display for measured temperature.	
	Power supply: Input: 110/220Vac 50/60Hz. Power: 50W.	
		100
		1994
* The mo	odel of microscope that will be used with this accessory must	
be specif		Contraction of the second seco



M-666



Gemological stereomicroscopes OPTIGEM SZM-GEM-1 / SZM-GEM-2 OPTIGEM-1 / OPTIGEM-2 / OPTIGEM-3 / OPTIGEM-4

OPTIGEM Series

Gemological stereomicroscopes



OPTIGEM Series

Optika Microscopes has designed a series dedicated to the science of Gemology.

These microscopes have been especially designed to observe samples of precious stones and jewels.

This series offers instruments equipped with multiple image-enhancing illumination systems, tilting stands and darkfield condensers developed for any gemological needs.

SZM-GEM-1	Gemological stereozoom 7x45x, binocular head with pillar stand.
SZM-GEM-2	Gemological stereozoom 7x45x, trinocular head with pillar stand.
OPTIGEM-1	Gemological binocular stereomicroscope, tilting stand, incident & transmitted LED illumination system.
OPTIGEM-2	Gemological trinocular stereomicroscope, tilting stand, incident & transmitted LED illumination system.
OPTIGEM-3	Gemological binocular stereomicroscope, tilting stand, fluorescent bulb (incident) & halogen bulb (transmitted).
OPTIGEM-4	Gemological trinocular stereomicroscope, tilting stand, fluorescent bulb (incident) & halogen bulb (transmitted).



OPTIGEM Series - SZM-GEM -1/2 models

Heads

SZM-GEM-1: Binocular rotating 360° and 45° inclined.

SZM-GEM-2: Trinocular rotating 360° and 45° inclined. Diopter adjustment on both eyepieces.

Interpupillary adjustment 51-75 mm.

Eyepieces

Widefield eyepieces WF10x/20mm with field number 20. **Objective**

Parfocal achromatic objective 1x. Working distance: 100 mm. Zoom range: 0,7x - 4,5x. Zoom factor: 6,428:1.

Specimen stage:

Specimen clamps. Adjustable gemology clip.

Focusing

By means of a rack and pinion controlled by a pair of knobs placed on both sides of the stereomicroscope.

Microscope stand

Pillar stand height 25 cm. Base: 26x20x6h cm. Weight: 6 Kg. Illumination

Incident illumination: dichroic halogen lamp (12V/15W) with angle and brightness adjustment.

Transmitted illumination: pure white (6300K) LED system for observation in brightfield (with diffusive LED disc) and darkfield (with side-emitting LED ring).

Through a selector it's possible to choose between 3 modes: brightfield only, darkfield only, or both brightfield and darkfield.

Provided with a lever for the insertion of a black background in order to improve the darkfield observation.

Voltage: 110/240Vac, 50/60Hz, 1A ; Fuses: T1A 250V Max. required power: 30W.





SZM-GEM-1/2 models

These two models are typical gemological microscopes with fixed stand.

An ultrabright LED-based electronic condenser with intensity control, allows to switch from bright to dark field; it also produces perfectly the colour of daylight. The condenser uses a new optical configuration especially created in order to obtain a perfect dark-field application.

OPTIGEM Series - **OPTIGEM -1/2 models**

The **OPTIGEM-1** and **OPTIGEM-2** are revolutionary 2-in-1 gemology instruments that can be used both as a vertical and as a horizontal microscopes, at the turn of a knob and without disassembling any part.

An ultrabright LED-based electronic condenser with intensity control, allows to switch from bright to dark-field; it also produces perfectly the colourof daylight. The condenser uses a new optical configuration especially created in order to obtain a perfect dark-field application. An additional flexible arm and velvet-field slider produces for extra contrast, crisp and vibrant images even in a brightly lit environment. A wide range of optional accessories completes these intruments: from gemology clip, an iris aperture diaphragma polarization analysis kit, an optical unit to switch the dark-field from a "sharp" (gem exhibition) to a "soft" (diamond analysis) mode translating cell holder with vacuum pick-up and quartz immesion cells complete and enhance the instrument usability. All the accessories can be stacked, in any order, while using the microscope in either horizontal or vertical configuration. The microscope body can be rotated through a full 360°, yet keeping the base sturdly fixed on the table, to show gems to a customer, or to share opinions with a colleague.







LED Illumination

Incident illumination: LED flexible arm with brightness adjustment.

Transmitted illumination: LED system for observation in brightfield (with diffusive LED disc) and darkfield (with side-emitting LED ring). Through a selector it's possible to choose between 3 modes: brightfield only, darkfield only, or both brightfield and darkfield.

Provided with a lever for the insertion of a black background in order to improve the darkfield observation. LED temperature color: 6300K (pure white). External power supply provided. Input: 110/240Vac, 50/60Hz; Output: 12V 1A. Max. required power: 15W.

OPTIGEM Series - **OPTIGEM -1/2 models**

Heads

OPTIGEM-1: Binocular rotating 360° and 45° inclined. OPTIGEM-2: Trinocular rotating 360° and 45° inclined.

Diopter adjustment on both eyepieces. Interpupillary adjustment 51-75 mm.

Eyepieces

Widefield eyepieces WF10x/22 with field number 22. **Objective**

Parfocal achromatic objective 1x. Working distance: 110 mm. Zoom range: 0,7x - 4,5x. Zoom factor: 6,428:1.

Specimen stage:

Adjustable gemology clip. 360° rotating base. Pair of rods for assembling optional accessories.

Focusing

By means of a rack and pinion controlled by a pair of knobs placed on both sides of the stereomicroscope.

Microscope stand

Rack-and-pinion stand (it can be inclined through full 90° for horizontal observation, and rotated 360°). Base: 27x21x6h cm. Weight: 6 Kg.







OPTIGEM-2





OPTIGEM - 3/4 models

These models are classic gemological microscopes with tilting stand. The darkfield condenser uses a typical optical configuration, based on halogen illumination and a classic reflecting system.

A flexible arm with a fluorescent tube simulates the color of daylight for accurate color grading.



Heads

OPTIGEM-3: Binocular rotating 360° and 45° inclined. OPTIGEM-4: Trinocular rotating 360° and 45° inclined.

Diopter adjustment on both eyepieces.

Interpupillary adjustment 55-75 mm.

Eyepieces

Widefield eyepieces WF10x/22 with field number 22.

Objectives

Parfocal achromatic objective 1x. Working distance: 110 mm. Zoom range: 0,67x - 4,5x. Zoom factor: 6,71:1.

Specimen stage:

Adjustable gemology clip. 360° rotating base.

Focusing

By means of a rack and pinion controlled by a pair of knobs placed on both sides of the stereomicroscope.

Microscope stand

Rack-and-pinion stand (it can be inclined 45°).

Base: 305x260x70h mm.

Weight: 7 Kg.

Illumination

Incident illumination: flexible arm with fluorescent tube 7W 6400K (pure white). Independent ON/OFF switch.

Transmitted illumination: system for observation with brightfield and darkfield, based on 30W halogen illumination and reflecting system. Brightness adjustment.

Iris diaphragm and removable black background for contrast enhancement for darkfield application.

Input: 240Vac, 50Hz;

Max. required power: 45W.









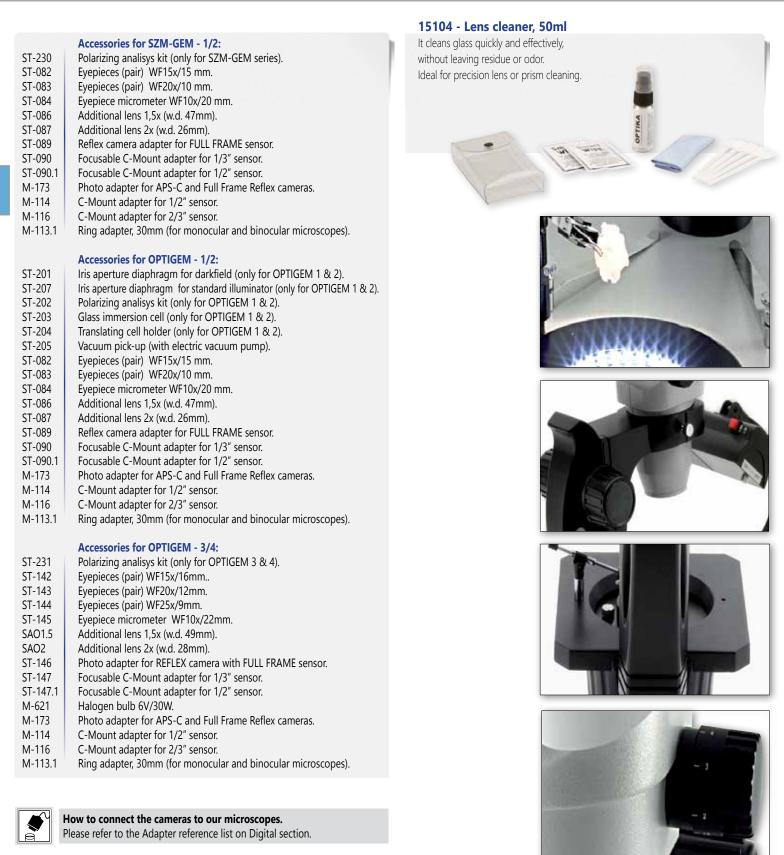


OPTIGEM Series - **Technical specifications**

Model	Head	Eyepieces	Objectives	Stand	Illumination
SZM-GEM-1	Binocular	WF10x/20mm	0,7 4,5x Zoom	Pillar stand	Incident illumination: dichroic halogen lamp 12V/15W. Transmitted illumination: Diffusive LED disc for observation in brightfield and side-emitting LED ring for observation in darkfield.
SZM-GEM-2	Trinocular	WF 10x/20mm	0,7x4,5x zoom	Pillar stand	Incident illumination: dichroic halogen lamp 12V/15W. Transmitted illumination: Diffusive LED disc for observation in brightfield and side-emitting LED ring for observation in darkfield.
OPTIGEM-1	Binocular	WF10x/22mm	0,7 4,5x Zoom	Gemological stand	Incident illumination: LED flexible arm with brightness adjustment. Transmitted illumination: Diffusive LED disc for observation in brightfield and side-emitting LED ring for observation in darkfield.
OPTIGEM-2	Trinocular	WF10x/22mm	0,7 4,5x Zoom	Gemological stand	Incident illumination: LED flexible arm with brightness adjustment. Transmitted illumination: Diffusive LED disc for observation in brightfield and side-emitting LED ring for observation in darkfield.
OPTIGEM-3	Binocular	WF10x/22mm	0,67 4,5x Zoom	Gemological stand	Incident illumination: flexible arm with fluorescent tube 7W (pure white). Transmitted illumination: 30W halogen bulb and a dedicated reflecting system for observation with brightfield and darkfield.
OPTIGEM-4	Trinocular	WF10x/22mm	0,67 4,5x Zoom	Gemological stand	Incident illumination: flexible arm with fluorescent tube 7W (pure white). Transmitted illumination: 30W halogen bulb and a dedicated reflecting system for observation with brightfield and darkfield



OPTIGEM Series - Accessories





Metallurgical and measuring microscopes INDUSTRY XC-100L / XZ-1 / XZ-2 / B-383 MET B-500 MET / B-1000 MET / XDS-3 MET



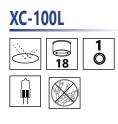
INDUSTRY Series

This series has been designed to handle and observe samples of any dimension. Industrial microscopes incorporate many complex designs that aim to improve resolution and sample contrast. From models designed for routine analysis up to models dedicated to industrial laboratory and quality control, Optika Microscopes is able to satisfy any demand in this field.

XC-100L	Portable monocular microscope for surface measurements, 100x magnification, incident light pen.
XZ-1	Measuring monozoom microscope 7x45x, incident & transmitted illumination.
XZ-2	Measuring monozoom videomicroscope 7x45x, with 8" LCD screen, incident ring LED illumination.
B-383MET	Trinocular metallurgical microscope, IOS MET objectives, X-LED incident & transmitted illumination.
B-500MET	Upright Metallurgical Microscope, IOS MET objectives, X-LED incident & transmitted illumination.
B-1000MET	Upright advanced metallurgical microscope.
XDS-3MET	Trinocular Inverted metallurgical microscope, IOS LWD MET Objectives.



INDUSTRY Series - XC-100L



XC-100L

Portable microscope for measurements. Fitted with WF10x/18mm micrometric eyepiece with cross divided into tenths of a millimetre. 10x achromatic objective (total magnification 100x); focusing controlled by a rack and pinion mechanism; adjustable battery powered penlight lighting unit.



INDUSTRY Series - XZ-1 and XZ-2

XZ-1

Bench monocular microscope for measuring and viewing surfaces with a zoom objective.

Fitted with WF10x/18mm micrometric eyepiece with cross divided into tenths of a millimetre. 0.7x...4.5x achromatic zoom objective (max. magnification 45).

Focusing controlled by a rack and pinion mechanism.

Double lighting unit for incident and transmitted light fitted with low voltage halogen bulbs (12V/10W). Working distance 90 mm.

XZ-2

Bench binocular microscope for measuring and viewing surfaces with a zoom objective and TFT LCD screen (8").

0.7x...4.5x achromatic zoom objective.

Focusing controlled by a rack and pinion mechanism.

Working distance: 96 mm.

LED ring light generator with brightness control.

CCD colour camera (380 TVlines). 8" TFT LCD screen with electronic graduated measuring cross.





INDUSTRY Series - **B-383MET**

B-383MET - Upright metallurgical microscope

Head: Trinocular, 30° inclined, 360° rotating. Interpupillary adjustment 48-75 mm.
Eyepieces: WF10X/20mm.
Nosepiece: 5-position reversed revolving nosepiece. Ball bearing rotation.
Objectives: PLAN IOS MET (no cover slide) 4x/0.10, 10x/0.25, 20x/0.40, 50x/0.75.
Focusing system: Coaxial coarse and fine.
Stage: Double layer mechanical sliding stage, dimensions 216x150mm, moving range 78x54mm.
Belt-drive in X direction. Glass insert for sample support.
Condenser: Abbe condenser, sliding-in, N.A. 1.25 with centering system.
Illumination: Transmitted light: X-LED³, with manual brightness control.
Power supply: External power supply: Input 100-240Vac 50-60Hz / Output 6Vdc 1A.
Metallurgical Attachment: High-power white X-LED³; field and aperture diaphragms.
Filters: Blue, polarizer & analyzer.





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INDUSTRY Series - **B-500MET**

B-500MET - Upright metallurgical microscope

Head: Trinocular, 30° inclined, 360° rotating. Eyepieces: WF10X/22mm. Nosepiece: 5-positions, reversed.

Objectives: PLAN IOS MET (no cover slide) IOS 5x/0.15, 10x/0.3, 20x/0.45, 50x/0.55, 100x/0.9 (dry).

Magnifications: 50x, 100x, 200x, 500x, 1000x.

Focusing system: Coaxial coarse and fine.

Stage: Double layer with mechanical sliding stage, 175x145 mm, moving range 76x52 mm.

Condenser: 0,7 N.A. swing-out type, with iris diaphgram, centrable and focusable. **Illumination:** OPTIKA X-LED³ system. Brightness is adjustable.

Metallurgical Attachment: High-power white X-LED³ system with brightness control; field and aperture diaphragms (centrable). Simple sliding darkfield system. **Filters**: Blue, polarizer & analyzer.









OPTI

B-1000MET Model

B-1000MET



B-1000MET

Type: UPRIGHT ADVANCED METALLURGICAL MICROSCOPE

OPTIKA

Description:

Microscope for advanced and research applications. Dye-cast frame, with high stability and ergonomy, for transmitted and incident light observation.



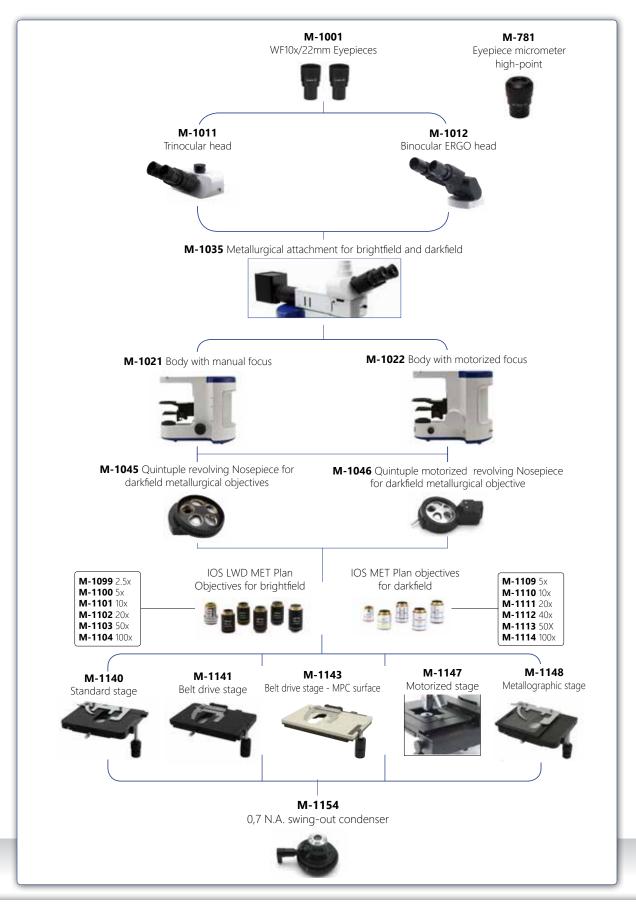


Version for material analysis (with brightfield and darkfield Epi-Illumination). Transmitted illumination X-LED⁸ (8W power).

Special attachment with built-in 100W halogen lamp.

B-1000MET Model - Configuration chart

BUILD THE MICROSCOPE THAT SUITES YOUR NEEDS BY CHOOSING AMONG THE COMPONENTS OF CONFIGURATION CHART:



INDUSTRY Series - **XDS-3MET**

XDS-3MET - Inverted metallurgical microscope

Head: Trinocular, 45° inclined.
Eyepieces: WF10X/22mm.
Nosepiece: 5-positions.
Objectives: LWD PLAN IOS MET (no cover slide): 5x/0.15, 10x/0.3, 20x/0.45, 50x/0.55.
Magnifications: 50x, 100x, 200x, 500x.
Focusing system: Coaxial coarse and fine.
Stage: 250x230mm; mechanical stage with lowered ergonomic coaxial controls.
X-Y range: 120x80mm.
Diaphragms: Field and aperture diaphragms (centrable).
Illumination: 12V/50W halogen bulb in external case. Centrable bulb and brightness control.
Filters: Blue, polarizer & analyzer.

XDS-3MET





INDUSTRY Series - **Technical specifications**

Model	Head	Eyepiece	Objectives	Working Distance	Stand	Illumination
XC-100L	Monocular	WF10x/18mm micrometric	10x	7,7 mm	Portable stand	Incident illumination: xenon penlight
XZ-1	Monocular	WF10x/18mm	0,7x4,5x zoom	90 mm	Pillar stand	Incident illumination: halogen bulbs 12V/10W Transmitted illumination: halogen bulbs 12V/10W
XZ-2	Binocular	WF10x/18mm	0,7x 4,5x zoom	96 mm	Pillar stand with 8" TFT LCD sceen	Incident illumination: LED ring light with brightness control



Model	Head	Eyepieces	Objectives	Nosepiece	Stage	Focusing	Condenser	Illumination
B-383MET	Trinocular	WF10x/20mm	PLAN IOS MET 4x, 10x, 20x, 50x	Quintuple reversed	Double layer mechanical sliding stage, dimensions 216x150mm, moving range 78x54mm. Belt-drive in X direc- tion. Glass insert for sam- ple support.	Coaxial coarse and fine system, with limit stop	Abbe condenser, sliding-in, N.A. 1.25 with centering system.	Transmitted light: X-LED ³ , with manual brightness control. Metallurgical Attachment: High-power white X-LED ³ system with brightness control.
B-500MET	Trinocular	WF10x/22mm	PLAN IOS MET (no cover slide) 5x, 10x, 20x, 50x, 100x (dry)	Quintuple reversed	Double layer with mechanical sliding stage, 175x145 mm, moving range 76x52 mm. Glass insert for sample support.	Coaxial coarse and fine system, with limit stop	Brightfifield con- denser: 0,7 N.A. swing-out type, with iris diaph- gram, centrable and focusable	Transmitted illumination: X-LED ³ illumination system. Metallurgical Attachment: High-power white X-LED ³ system with brightness control.
B-1000MET				See the conf	iguration chart for your o	own configuration		
XDS-3MET	Trinocular	WF10x/22mm	LWD PLAN IOS MET (no cover slide) 5x, 10x, 20x, 50x	Quintuple reversed	250X230mm; mechanical stage with lowered ergonomic coaxial controls. X-Y range: 120x80 mm	Coaxial coarse and fine system, with limit stop		12V/50W halogen bulb in external case. Centrable bulb and brightness control.

INDUSTRY Series - Accessories

	XC-100L - Measuring microscope	M-620	Eccurable C. Mount adapter for 1/2" concer
M 900	Pen illuminator.		Focusable C-Mount adapter for 1/3" sensor.
M-899		M-620.1	Focusable C-Mount adapter for 1/2" sensor.
M-004	Eyepiece with micrometer WF10x/18mm.	M-620.2	Focusable C-Mount adapter for 2/3" sensor.
M-114	C-Mount adapter for 1/2" sensor.	M-034	Dust cover type 5.
M-116	C-Mount adapter for 2/3" sensor.	M-975	Blue filter, 45 mm diameter.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.	M-977	Green filter, 45 mm diameter.
		M-979	Yellow filter, 45 mm diameter.
	XZ-1 - Measuring monozoom microscope	M-989	Frosted glass filter, 45 mm diameter.
M-001	Eyepiece H5x.	M-690	Eyecup (pair).
M-003	Eyepiece WF16x/12mm.	M-114	C-Mount adapter for 1/2" sensor.
M-005	26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm.	M-116	C-Mount adapter for 2/3" sensor.
ST-012	White/black object-plate, type 2 dia. 95 mm.	M-173	Photo adapter for APS-C and Full Frame Ref
ST-014	Glass stage, type 2, dia. 95 mm.		
ST-028	Halogen bulb 12V/10W.		XDS-3MET - Inverted metallurgical micro
M-013	Halogen bulb 12V/10W, with dichroic mirror.	M-625	Eyepiece EWF10x/22mm.
ST-029	Dust cover type 12.	M-601	Eyepiece WF15x/16mm.
M-114	C-Mount adapter for 1/2" sensor.	M-602	Eyepiece micrometer EWF10x/22mm.
		M-005	26x76 mm micrometric slide. Range 1 mm, c
M-116	C-Mount adapter for 2/3" sensor.	M-735	Objective IOS LWD MET PLAN 5x/0,15.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.	M-736	Objective IOS LWD MET PLAN 10x/0,3.
		M-737	Objective IOS LWD MET PLAN 20x/0,45.
	XZ-2 - Measuring monozoom videomicroscope	M-738	Objective IOS LWD MET PLAN 50x/0,55.
M-001	Eyepiece H5x.	M-746	Objective IOS LWD MET PLAN 100x/0.80.
M-003	Eyepiece WF16x/12mm.	M-619	Photo adapter for REFLEX camera with FULL
M-004	Eyepiece with micrometer WF10x/18mm.	M-699	Universal adapter for M-114, M-116, M-173
M-005	26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm.	M-789	Focusable C-Mount adapter for 1/3" sensor.
M-114	C-Mount adapter for 1/2" sensor.	M-789.1	Focusable C-Mount adapter for 1/2" sensor.
M-116	C-Mount adapter for 2/3" sensor.	M-789.2	Focusable C-Mount adapter for 2/3" sensor.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.s.	M-622	Halogen bulb 12V/50W (only for XDS-3MET
	·	M-036	Dust cover type 7.
	B-383MET - Upright metallurgical microscope	M-114	C-Mount adapter for 1/2" sensor.
M-160	Eyepiece WF10x/20mm.	M-116	C-Mount adapter for 2/3" sensor.
M-161	Eyepiece EW15x/16mm.	M-173	Photo adapter for APS-C and Full Frame Ref
M-162	Eyepiece WF20x/10mm.	M-788	Photo adapter for REFLEX camera with FULL
M-162	Micrometer eyepiece WF10x/20mm.		
M-005	26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm.		B-1000MET - Metallurgical microscope
M-337	Objective PLAN IOS MET 4x/0.10.	M-005	26x76 mm micrometric slide. Range 1 mm, c
		M-613	Polarizing set (Polarizer and Analyzer filters).
M-338	Objective PLAN IOS MET 10x/0.25.	M-615	Lambda filter for polarizing set.
M-339	Objective PLAN IOS MET 20x/0.40.	M-617.1N	Phase contrast set with IOS PLAN objectives
M-335	Objective PLAN IOS MET 50x/0.75.	M-781	WF10x/22mm micrometer eyepiece (10mm,
M-114	C-Mount adapter for 1/2" sensor.	CL-35	Halogen Lamp 24V 100W (only for metallurg
M-116	C-Mount adapter for 2/3" sensor.	M-690	Eyecup (pair).
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.	M-619	Photo adapter for REFLEX camera with FULL
M-069	Solar battery pack.	M-173	Photo adapter for APS-C and Full Frame Ref
		M-699	Universal adapter for M-114, M-116, M-173
	B-500MET - Upright metallurgical microscope	M-620	Focusable C-Mount adapter for 1/3" sensor.
M-680	Ergo binocular head 30°-60°.	M-620.1	Focusable C-Mount adapter for 1/2" sensor.
M-780	Eyepiece EWF10x/22mm.	M-620.2	Focusable C-Mount adapter for 2/3" sensor.
M-601	Eyepiece WF15x/16mm.	M-114	C-Mount adapter for 1/2" sensor.
M-781	Eyepiece micrometer EWF10x/22mm.	M-116	C-Mount adapter for 2/3" sensor.
M-005	26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm.	15104	Lens cleaner, 50ml
M-693.1	Objective IOS LWD MET PLAN 5x/0,15.		
M-694.1	Objective IOS LWD MET PLAN 10x/0,3.		
M-695.1	Objective IOS LWD MET PLAN 20x/0,45.	н 🎽 н	ow to connect the cameras to our microsco
M-696.1	Objective IOS LWD MET PLAN 200/0,45.		ease refer to the Adapter reference list on Dig
M-698.2	Objective IOS LWD MET PLAN 30X/0,90.		
M-696.2 M-613			
	Polarising set (Polarizer and Analyzer filters).		
M-615	Lambda filter for polarising set.		
M-614	Rotating table for polarising set.		
M-619	Photo adapter for REFLEX camera with FULL FRAME sensor.		
M-699	Universal adapter for M-114, M-116, M-173 and eyepiece cameras.		

M-620.1 M-620.2 M-034 M-975 M-977 M-979 M-989 M-690 M-114 M-116 M-173	Focusable C-Mount adapter for 1/2" sensor. Focusable C-Mount adapter for 2/3" sensor. Dust cover type 5. Blue filter, 45 mm diameter. Green filter, 45 mm diameter. Yellow filter, 45 mm diameter. Frosted glass filter, 45 mm diameter. Eyecup (pair). C-Mount adapter for 1/2" sensor. C-Mount adapter for 2/3" sensor. Photo adapter for APS-C and Full Frame Reflex cameras.
M-625 M-601 M-602 M-005 M-735 M-736 M-737 M-738 M-746 M-619 M-619 M-699 M-789 M-789 M-789.1 M-789.2 M-622 M-036 M-114 M-116 M-173 M-788	 XDS-3MET - Inverted metallurgical microscope Eyepiece EWF10x/22mm. Eyepiece WF15x/16mm. Eyepiece micrometer EWF10x/22mm. 26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm. Objective IOS LWD MET PLAN 5x/0,15. Objective IOS LWD MET PLAN 10x/0,3. Objective IOS LWD MET PLAN 20x/0,45. Objective IOS LWD MET PLAN 50x/0,55. Objective IOS LWD MET PLAN 100x/0.80. Photo adapter for REFLEX camera with FULL FRAME sensor. Universal adapter for 1/14, M-116, M-173 and eyepiece cameras. Focusable C-Mount adapter for 1/2" sensor. Focusable C-Mount adapter for 2/3" sensor. Halogen bulb 12V/50W (only for XDS-3MET). Dust cover type 7. C-Mount adapter for 1/2" sensor. Photo adapter for APS-C and Full Frame Reflex cameras. Photo adapter for REFLEX camera with FULL FRAME sensor.
M-005 M-613 M-615 M-617.1N M-781 CL-35 M-690 M-619 M-619 M-620 M-620 M-620.1 M-620.2 M-114 M-116 15104	 B-1000MET - Metallurgical microscope 26x76 mm micrometric slide. Range 1 mm, div. 0,01 mm. Polarizing set (Polarizer and Analyzer filters). Lambda filter for polarizing set. Phase contrast set with IOS PLAN objectives 40x. WF10x/22mm micrometer eyepiece (10mm, 0.1mm div.). Halogen Lamp 24V 100W (only for metallurgical attachment M-1035) Eyecup (pair). Photo adapter for REFLEX camera with FULL FRAME sensor. Photo adapter for APS-C and Full Frame Reflex cameras. Universal adapter for M-114, M-116, M-173 and eyepiece cameras. Focusable C-Mount adapter for 1/2" sensor. Focusable C-Mount adapter for 2/3" sensor. C-Mount adapter for 2/3" sensor.

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

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