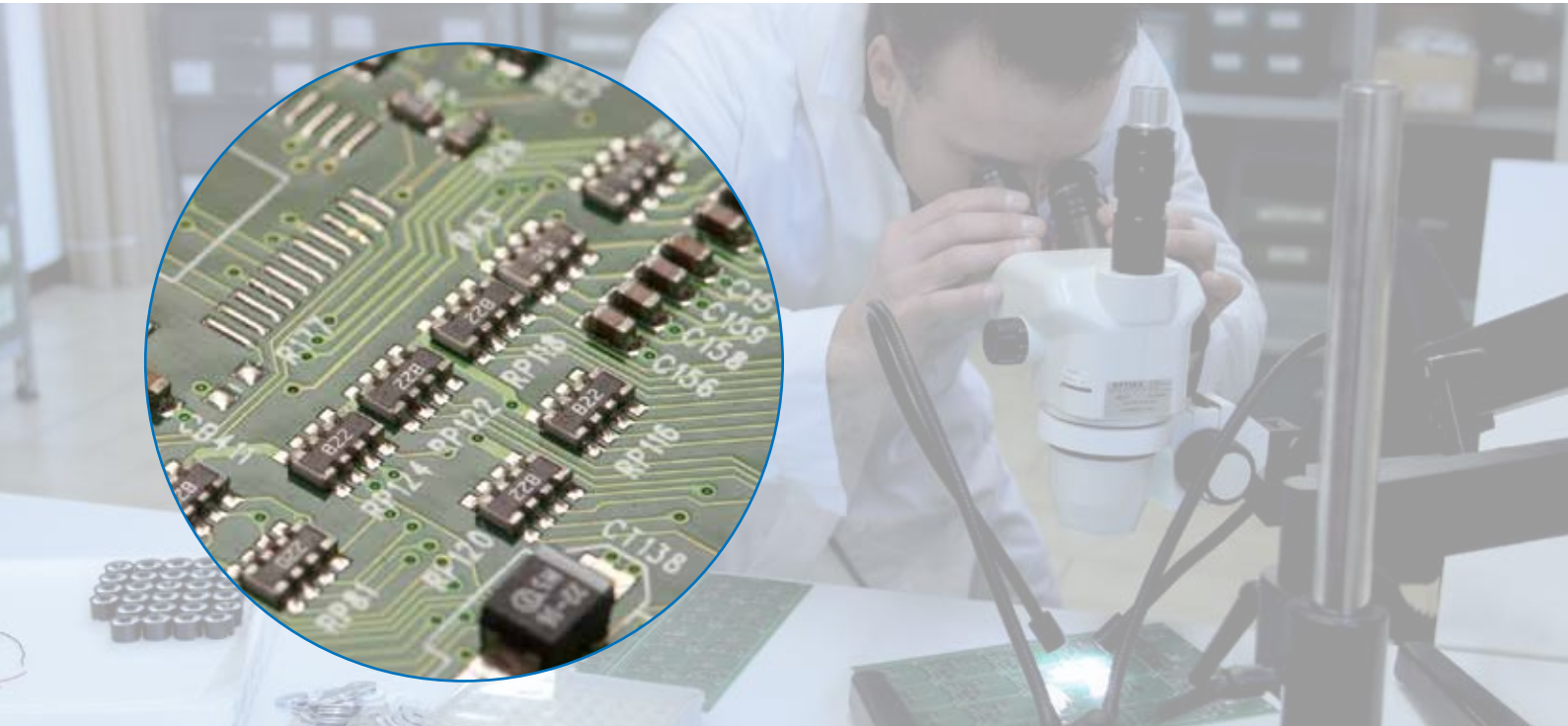
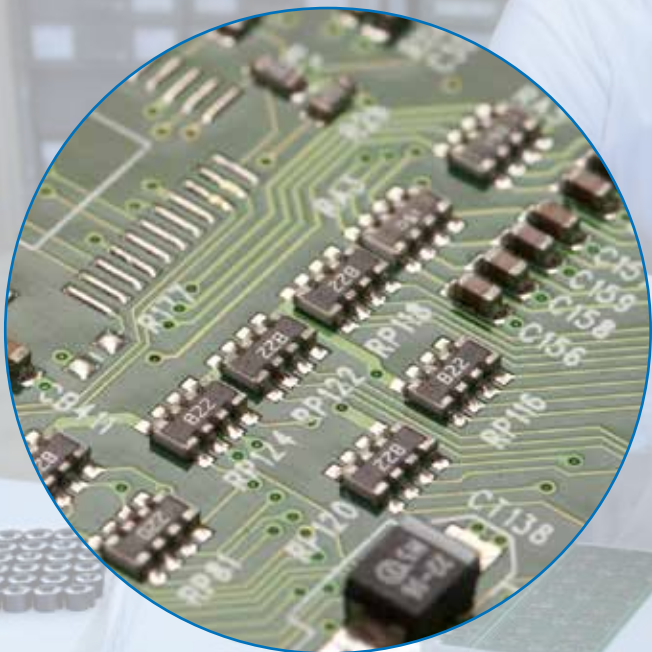
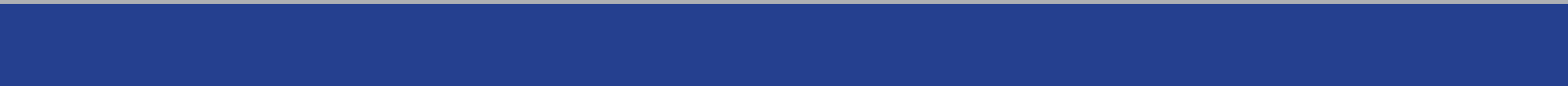
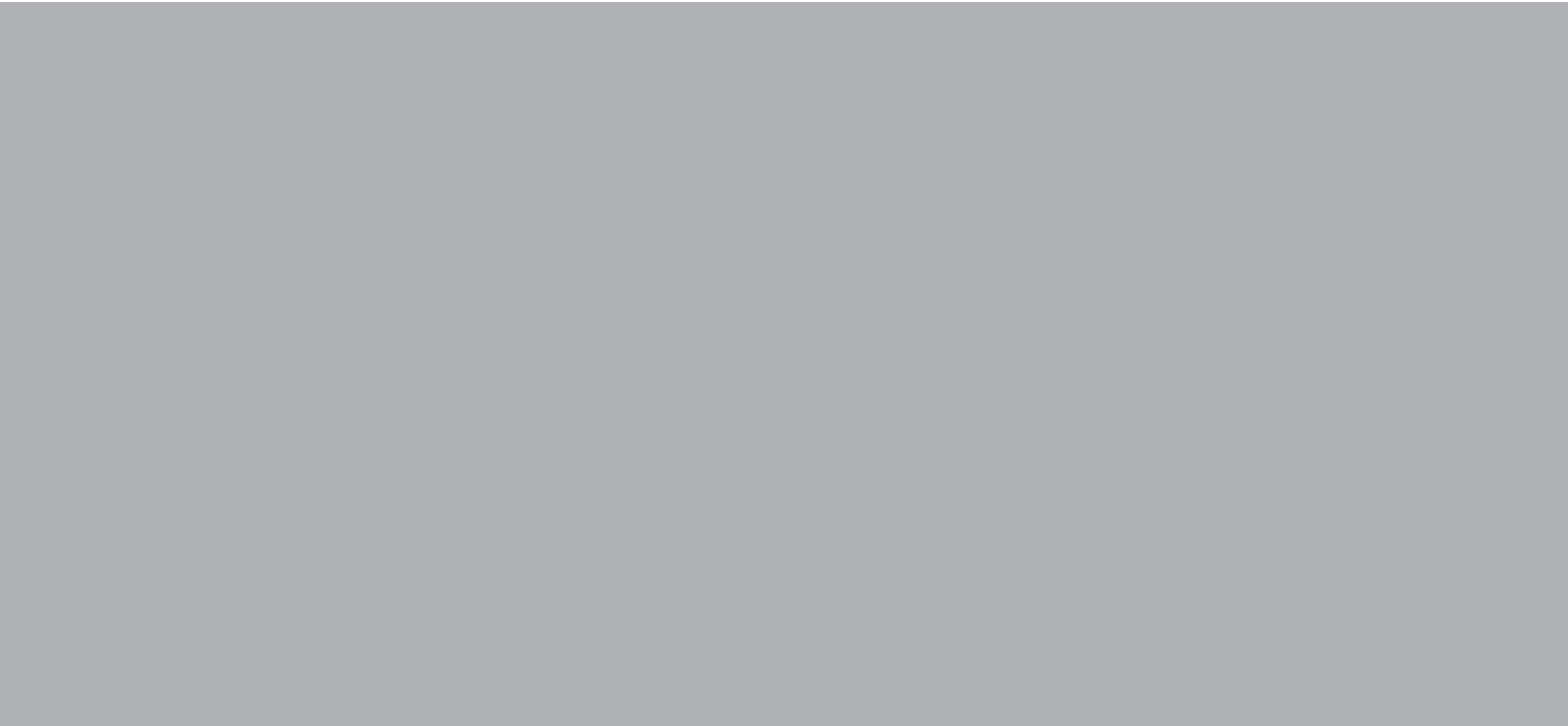


INDUSTRIAL *microscopes*
































- LAB SERIES - Entry-level professional stereomicroscopes page 157
- SZM SERIES - Professional stereozoom microscopes page 161
- SZN SERIES - Laboratory stereozoom microscopes** page 165
- MODULAR SERIES - Modular stereozoom microscopes for industry page 173
- SZM-SMD - Stereozoom microscope for SMD inspection page 183
- ACCESSORIES - Illumination and sample positioning page 187
- OPTIGEM SERIES - Gemological stereomicroscopes page 193
- INDUSTRY SERIES - Metallurgical and measuring microscopes page 201



Icons

 1	Monocular	 400x	Magnification 400X	 X-LED ²	X-LED ² illuminator
 2	Binocular	 1000x	Magnification 1000X	 X-LED ³	X-LED ³ illuminator
 3	Trinocular		Incident light	 X-LED ⁸	X-LED ⁸ illuminator
 16	Field number 16		Transmitted light	 1WLED	1W LED illuminator
 18	Field number 18		Polarized light	 LED	LED illuminator
 20	Field number 20		Halogen lamp		Automatic light control
 22	Field number 22		Incandescant lamp	 IOS	Infinity-corrected optics
 24	Field number 24		Dichroic lamp		Rechargeable battery
 360°	Rotating head 360°	 USB	USB connection		Anti-fungus treatment

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

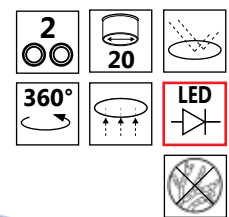
Binocular, selectable magnification

LAB-20

Binocular, zoom magnification



LAB-10



LAB Range



LAB-10

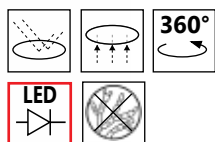


LAB-20

LAB-20 Series



LAB-20



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	Illumination
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	0,7x...4,5x 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
ST-401	Eyepieces (pair) WF10x/20mm
ST-402	Eyepieces (pair) WF15x/15mm
ST-403	Eyepieces (pair) WF20x/10mm
ST-405	Eyepiece micrometric WF10x/20mm
ST-410	Additional lens 0,5x for LAB 20 (w.d. 170 mm)
ST-411	Additional lens 1,5x for LAB 20 (w.d. 42 mm)
ST-415	Eye cups (pair) type 1
ST-029	Dust cover type 12

15103 - Lens cleaner, 50ml

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



SZM Series

Professional stereozoom microscopes



SZM Series

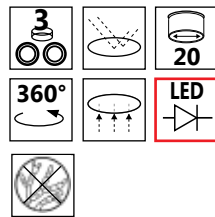
The stereomicroscopes of the SZM series are instruments designed for laboratory and industry applications.

Their optical and mechanical qualities place them at the top of their category and the price/quality ratio is excellent. The stereomicroscopes share 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. Several accessories provide an ample choice of configurations and applications.

- SZM-1** Binocular with pillar stand, halogen lamp
- SZM-LED1** Binocular with pillar stand, LED
- SZM-2** Trinocular with pillar stand, halogen lamp
- SZM-LED2** Trinocular with pillar stand, LED
- SZM-3** Binocular with overhanging stand
- SZM-4** Trinocular with overhanging stand

SZM-LED2



SZM Range



SZM-1



SZM-LED1



SZM-2



SZM-LED2



SZM-3

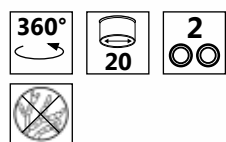


SZM-4

SZM Series



SZM-3



Heads

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

Interpupillary distance

Adjustable between 51 and 75 mm.

Dioptic compensation

On both eyepiece tubes.

Eyepieces

EWF10x/20 mm

Objectives

Parfocal achromatic zoom 0,7x...4,5x (6,428:1 zoom factor).

Specimen stage:

Models with halogen illumination are fitted with a black/white disc, specimen clips and a frosted disc for transmitted light.

LED versions are not equipped with black/white and frosted discs.

Focusing

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

Stand

Pillar stand: 30 mm and 25 cm high. Base: 26x20x6h cm.

Overhanging stand: 42 cm high, 23x23 cm base and 45 cm horizontal arm length.

Illumination

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 / SZM-LED2 are equipped with high-power LEDs.

SZM Series - Technical specifications

Model	Head	Eyepiece	Objectives	Working Distance	Stand	Illumination
SZM-1	Binocular	WF 10x/20mm	0,7x...4,5x zoom	100 mm	Pillar stand	Incident and transmitted 12V/15W halogen
SZM-LED1	Binocular	WF 10x/20mm	0,7x...4,5x zoom	100 mm	Pillar stand, low profile base	Incident: high power X-LED ³ Transmitted: 40mm LED diffusing disc
SZM-2	Trinocular	WF 10x/20mm	0,7x...4,5x zoom	100 mm	Pillar stand	Incident and transmitted 12V/15W halogen
SZM-LED2	Trinocular	WF 10x/20mm	0,7x...4,5x zoom	100 mm	Pillar stand, low profile base	Incident: high power X-LED ³ Transmitted: 40mm LED diffusing disc
SZM-3	Binocular	WF 10x/20mm	0,7x...4,5x zoom	100 mm	Overhanging stand	Without illumination
SZM-4	Trinocular	WF 10x/20mm	0,7x...4,5x zoom	100 mm	Overhanging stand	Without illumination

SZM Series - Accessories

SZM

- ST-081 Eyepieces (pair) WF10x/20 mm
- ST-082 Eyepieces (pair) WF15x/15 mm
- ST-083 Eyepieces (pair) WF20x/10 mm
- ST-084 Eyepiece micrometric WF10x/20 mm
- ST-085 Additional lens 0,5x (w.d. 165 mm)
- ST-091 Additional lens 0,75x (w.d. 117 mm)
- ST-086 Additional lens 1,5x (w.d. 47 mm)
- ST-087 Additional lens 2x (w.d. 26 mm)
- ST-088 Polarising set (filters and rotating stage) *
- ST-040 Darkfield condenser *
- ST-041 Sample clip
- ST-100 Moving stage *
- ST-110 Moving stage, with coaxial knobs
- ST-111 Moving stage, with micrometer screws
- ST-089 Reflex camera adapter for full frame sensor
- ST-090 CCD camera adapter (for 1/3" sensors)
- ST-090.1 CCD camera adapter (for 1/2" sensors)
- ST-036 Eye cups (pair) type 2
- ST-012 White/black object-plate, type 2 dia. 95 mm (not available on LED version)
- ST-014 Glass stage, type 2, dia. 95 mm (not available on LED version)
- ST-038 Halogen bulb, 12V/15W
- ST-037 Halogen bulb, 12V/15W, with dichroic mirror
- ST-033 Dust cover type 13
- ST-666 Heating stage, with digital temperature controller
- ST-173 APS-C Reflex camera adapter

* For LED version special adapter required

15103 - Lens cleaner, 50ml

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



CAMERA ADAPTER CHART FOR TRINOCULAR MODELS



SZM
Trinocular versions

*T/2 is not supplied by OPTIKA

SZN Series

Laboratory stereozoom microscopes



SZN Series

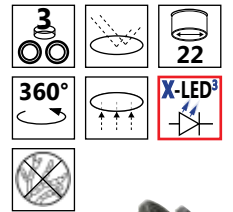
The stereomicroscopes of the SZN series are instruments designed for laboratory and industry applications.

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 four 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 with pillar stand.
- SZN-2** Trinocular with pillar stand.
- SZN-3** Binocular with pillar stand, transmitted LED disc and single incident LED.
- SZN-4** Trinocular with pillar stand, transmitted LED disc and single incident LED.
- SZN-5** Binocular with pillar stand, transmitted LED disc and double arm incident LED.
- SZN-6** Trinocular with pillar stand, transmitted LED disc and double arm incident LED.
- SZN-7** Binocular with simple overhanging stand.
- SZN-8** Trinocular with simple overhanging stand.
- SZN-9** Binocular with hinged overhanging stand.
- SZN-10** Trinocular with hinged overhanging stand.

SZN-4



SZN Range



SZN-1



SZN-2



SZN-3



SZN-4



SZN-5



SZN-6



SZN-7



SZN-8



SZN-9



SZN-10

SZN Series

Heads

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

Interpupillary distance

Adjustable between 55 and 75 mm.

Dioptic 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 white disc for contrast and specimen clamps.

Models with transmitted illumination also fitted with frosted glass disc.

Focusing

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

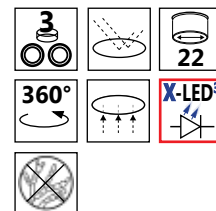
Illumination

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

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.

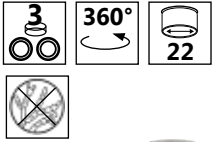
SZN-6



100mm wide illumination LED disc

SZN Series - Models

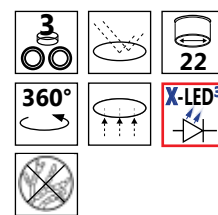
SZN-2



SZN-4

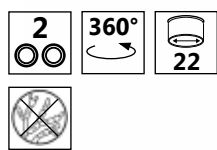


SZN-6

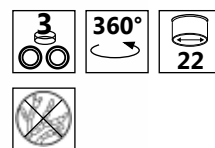


SZN Series - Models

SZN-7

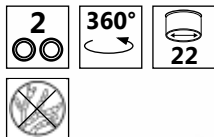


SZN-8

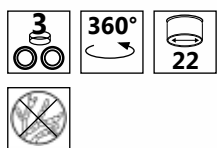


SZN-4 Model

SZN-9



SZN-10



SZN Series - Technical specifications

Model	Head	Eyepiece	Objectives	Working Distance	Stand	Illumination
SZN-1	Binocular	EWF10x/22	0,67....4,5x	110mm	Pillar stand with rack and pinion system	Without illumination.
SZN-2	Trinocular	EWF10x/22	0,67....4,5x	110mm	Pillar stand with rack and pinion system	Without illumination.
SZN-3	Binocular	EWF10x/22	0,67....4,5x	110mm	Pillar stand with rack and pinion system	Transmitted: 100 mm LED disc Incident: OPTIKA X-LED ³ .
SZN-4	Trinocular	EWF10x/22	0,67....4,5x	110mm	Pillar stand with rack and pinion system	Transmitted: 100 mm LED disc Incident: OPTIKA X-LED ³ .
SZN-5	Binocular	EWF10x/22	0,67....4,5x	110mm	Pillar with rack and pinion system	Transmitted: 100 mm LED disc Incident: double arm OPTIKA X-LED ³ .
SZN-6	Trinocular	EWF10x/22	0,67....4,5x	110mm	Pillar with rack and pinion system	Transmitted: 100 mm LED disc Incident: double arm OPTIKA X-LED ³ .
SZN-7	Binocular	EWF10x/22	0,67....4,5x	110mm	Simple overhanging stand	Without illumination.
SZN-8	Trinocular	EWF10x/22	0,67....4,5x	110mm	Simple overhanging stand	Without illumination.
SZN-9	Binocular	EWF10x/22	0,67....4,5x	110mm	Hinged overhanging stand	Without illumination.
SZN-10	Trinocular	EWF10x/22	0,67....4,5x	110mm	Hinged overhanging stand	Without illumination.

SZN Series - Accessories

SZN

Eyepieces

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 micrometric WF10x/22mm

Additional lenses

SAO0.3	Additional lens 0,3x (w.d. 287 mm)
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)
SSAO2	Additional lens 2x (w.d. 28mm)

Photo & Video adapters

ST-146	SLR Reflex camera adapter for full frame sensor
ST-147	CCD camera adapter (for 1/3" sensors)
ST-147.1	CCD camera adapter (for 1/2" sensors)
ST-173	APS-C Reflex camera adapter

Additional Accessories

ST-088	Polarising set (filters and rotating stage) *
ST-040	Darkfield condenser *
ST-100	Moving stage *
ST-110	Moving stage, with coaxial knobs
ST-111	Moving stage, with micrometer screws
ST-666	Heating stage, with digital temperature controller

15103 - Lens cleaner, 50ml

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



CAMERA ADAPTER CHART FOR TRINOCULAR MODELS

VC CAMERAS / OPTIKAM CAMERAS



C-MOUNT

WITH LENS

1/2

1/3

ST-147

ST-147.1

NOT NECESSARY

DIGI



NOT NECESSARY

REFLEX APS-C



T/2*



ST-173

REFLEX Full frame 35mm



T/2*



ST-146



*T/2 is not supplied by OPTIKA

SZN
Trinocular versions

MODULAR

SZM-B / SZM-T / SZN-B / SZN-T / SZP-6
SZP-8 / SZP-10 / ST-150 / ST-151 / ST-152 / ST-153
SZ-STL1H / SZ-STL2H / SZ-STL3Led / SZ-STL3 / SZ-STL4
SZ-STL4Led / SZ-STL8 / ST-155 / ST-156

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 to build your own model on the basis of your needs.

SZM-B	Binocular head, greenough optical system
SZM-T	Trinocular head, greenough optical system
SZN-B	Binocular head, greenough optical system
SZN-T	Trinocular head, greenough optical system
SZP-6	Binocular head galilean optical system
SZP-8	Binocular head galilean optical system
SZP-10	Binocular head galilean optical system

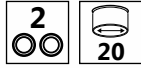
HEAD Range



MODULAR Series - SZM Heads



SZM-B



SZM-B Binocular stereozoom head

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



SZM-T



SZM-T Trinocular stereozoom head

45° inclined, 360° rotatable;
 WF10x/20mm high-point widefield eyepieces;
 Interpupillary distance: 51-75 mm;
 Dioptic 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 micrometric WF10x/20 mm

Additional lenses

- ST-085 Additional lens 0,5x (w.d. 165 mm)
- ST-091 Additional lens 0,75x (w.d. 117 mm)

- ST-086 Additional lens 1,5x (w.d. 47 mm)
- ST-087 Additional lens 2x (w.d. 26 mm)

Photo & Video adapters

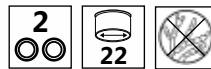
- ST-089 SLR Reflex camera adapter
- ST-090 CCD camera adapter (for 1/3" sensors)
- ST-090.1 CCD camera adapter (for 1/2" sensors)
- ST-173 APS-C Reflex camera adapter

MODULAR Series - SZN Heads

SZN-B Binocular stereozoom head

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

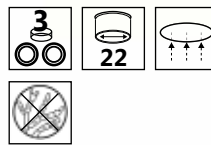
SZN-B



SZN-T Trinocular stereozoom head

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

SZN-T



MODULAR Series - Accessories

Eyepieces

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 micrometric WF10x/22mm

Additional lenses

SAO0.3	Additional lens 0,3x (w.d. 287 mm)
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)
SSAO2	Additional lens 2x (w.d. 28mm)

Photo & Video adapters

ST-146	SLR Reflex camera adapter for full frame sensor
ST-147	CCD camera adapter (for 1/3" sensors)
ST-147.1	CCD camera adapter (for 1/2" sensors)
ST-173	APS-C Reflex camera adapter

MODULAR Series - SZP Heads

SZP-6 Binocular parallel stereozoom head

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

SZP-8 Binocular parallel stereozoom head

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

SZP-10 Binocular parallel stereozoom head

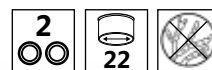
30° inclined, 360° rotatable;
 WF10x/22mm high-point widefield eyepieces;
 Interpupillary distance: 52-75 mm;
 Dioptic adjustment: +/-5 diopters;
 Objective: 1x;
 0,8x...8x zoom objective;
 Zoom ratio: 10:1;
 Working distance: 80 mm.

Also available models SZP-6ERGO, SZP-8ERGO, SZP-10ERGO

Binocular ERGO 0°-35° inclined, 360° rotatable

Diopter adjustment on both eyepieces +/- 5 diopters.

SZP-6

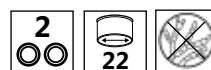


ST-170

ST-172



SZP-ERGO



Stand not included

MODULAR Series - Accessories

Eyepieces

ST-161	Eyepieces (pair) WF15x/15 mm
ST-162	Eyepieces (pair) WF20x/12 mm
ST-163	Eyepiece micrometric WF10x/22 mm

Objectives

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

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
ST-173	Asp-c Reflex camera adapter
ST-174	CCD camera adapter (for 1/3" sensors)
ST-175	CCD camera adapter (for 1/2" sensors)

MODULAR Series - Stands

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 to build your own model on the basis of your needs.

ST-150	Large plain stand, pillar type.
ST-151	Large plain stand, pillar type. LED trans-illuminator.
ST-152	Large plain stand, fixed arm type.
ST-153	Large plain stand, fixed arm type. LED trans-illuminator.
ST-155	Large stand. Coarse focusing LED transmitted and incident illuminator.
ST-156	Large stand, coarse and fine focusing. LED transmitted and incident illuminator.
SZ-STL1H	Simple overhanging stand.
SZ-STL2H	Hinged overhanging stand.
SZ-STL3	Industrial stand, with table clamp.
SZ-STL3Led	Industrial stand, with table clamp. Double X-LED ³ illuminator arm.
SZ-STL4	Industrial stand, bench support.
SZ-STL4Led	Industrial stand, bench support. Double X-LED ³ illuminator arm.
SZ-STL8	Small base, double X-LED ³ illuminator arm and LED disc trans-illuminator.

STAND Range



ST-150



ST-151



ST-152



ST-153



ST-155



ST-156



SZ-STL3



SZ-STL3 LED



SZ-STL4



SZ-STL8

MODULAR Series - Stands

ST-150



ST-150

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

ST-151



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



ST-152

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

ST-153



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.

MODULAR Series - Stands

ST-155



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.

ST-156



SZ-STL1H



SZ-STL1H

Simple overhanging stand with head holder. Base dimensions: 230x230mm. Pillar: Ø32x380mm. Horizontal arm: 430mm. * Head not included

MODULAR Series - Stands

SZ-STL2H

SZ-STL2H

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



SZ-STL8

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

SZ-STL8

MODULAR Series - Stands

SZ-STL3



SZ-STL4



SZ-STL3Led & SZ-STL4Led



SZ-STL3Led & SZ-STL4Led

Industrial stand, table clamp or bench support, with double X-LED illuminators on flexible arms.

* Head not included.

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.

Heads

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.

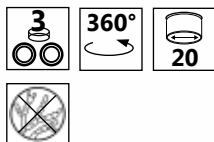




SZM-SMD Model - Technical specifications



SZM-SMD



U.S. Patent
No. D,811,411

OPTIKA

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 micrometric WF10x/20 mm

Photo & Video adapters

- ST-089 SLR Reflex camera adapter for Full Frame
- ST-090 CCD camera adapter (for 1/3" sensors)
- ST-090.1 CCD camera adapter (for 1/2" sensors)
- M-173 APS-C Reflex camera adapter

15103 - Lens cleaner, 50ml

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



ACCESSORIES

Illumination and sample positioning



ACCESSORIES Series

The achievement of an ideal work situation is the result of not only choosing the most suitable microscope, but of choosing correctly its accessories as well.

We offer a range of devices for any situations: external illuminators, moving stages, heating stages.

A correct choice of accessories for your microscope is instrumental in getting the highest performance out of it.

CLD-01	LED cold light generator
CL-30	2-arm LED illuminator
CL-31	2-arm LED illuminator
CL-41	2-arm X-LED ³ illuminator
CL-11.1	Double-arm optic fiber guide
CL-12	Ring optic fiber guide
CL-15.1	LED ring light illuminator
CL-20	Ring light illuminator

ACCESSORIES Range



CLD-01 + CL-11.1



CL-30



CL-31



CL-41



CL-12



CL-15.1



CL-20

ACCESSORIES Series - CLD-01

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 + CL-11.1



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.

Optional lenses for arms:

CL-17: Focusing lens(pair) with built-in polarizer filter.

CL-12: Ring optical fiber guide, guide length 700 mm.
Guide diameter 16 mm. Diameter of the fixing ring: 55mm.
The circular end is suitable for all stereo series.

ACCESSORIES Series - Illuminators

CL-30

2-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

2-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;

With brightness control.

CL-41

2 arm X-LED illuminator;

With 3,5W high efficiency X-LED.

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-31



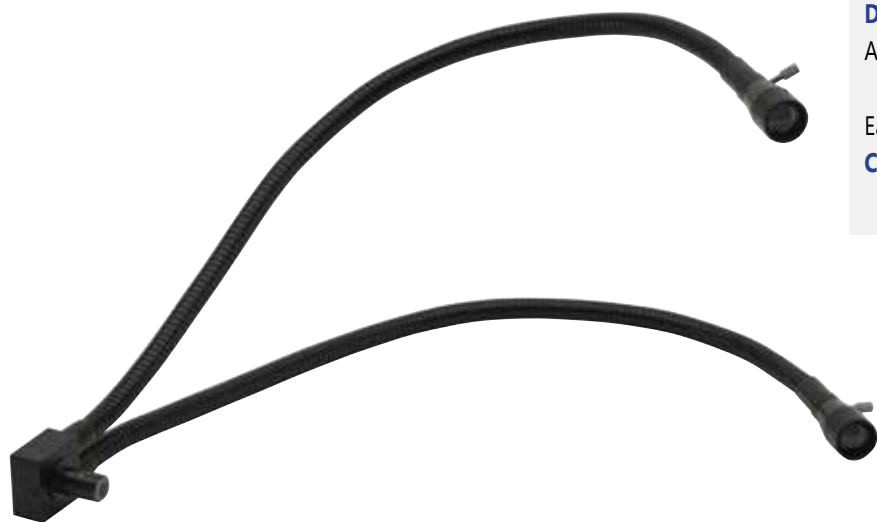
CL-41





ACCESSORIES Series - Illuminators

CL-11.1



CL-11.1

Double-arm optic fiber guide with focusing lenses.
Arm length 500 mm.

Each arm fitted with focusable lens adapter:

CL-17: lens pair with built-in linear polarizer (not included)

CL-12



CL-12

Ring optic fiber guide

Length 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.

CL-15.1

LED ring light illuminator

Led ring light illuminator. Suitable for all series. Intensity light control. Diameter of the fixing ring 60mm.

CL-20

Ring light illuminator

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

CL-15.1



CL-20



ACCESSORIES Series

- ST-100** **Moving stage ***
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.
Dimensions: 185x145mm.
Range: 25mm (X) x 25mm (Y).
Micrometer screws resolution: 0.01mm
- M-666** **Heating stage ***
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
- 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

* The model of microscope that will be used with this accessory must be specified.

ST-100



ST-110



ST-111



M-666



ST-666



OPTIGEM Series

Gemological stereomicroscopes



OPTIGEM Series

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

These microscopes have especially been designed to observe samples of precious stones as well as jewels which may contain them.

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, binocular head, pillar stand.
- SZM-GEM-2** Gemological stereozoom, trinocular head, pillar stand.
- OPTIGEM-1** Gemological stereozoom, binocular head, tilting stand.
- OPTIGEM-2** Gemological stereozoom, trinocular head, tilting stand.
- OPTIGEM-3** Gemological stereozoom, binocular head, tilting stand.
- OPTIGEM-4** Gemological stereozoom, trinocular head, tilting stand.



OPTIGEM Range



SZM-GEM-1

SZM-GEM-2

OPTIGEM-1

OPTIGEM-2

OPTIGEM-3

OPTIGEM-4

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.

Objectives

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 dark-field (with side-emitting LED ring).

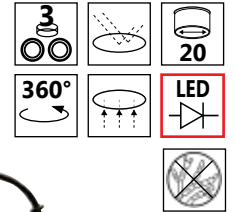
Through a selector it's possible to choose between 3 modes: brightfield only, darkfield only, or both brightfield and dark-field.

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-2



SZM-GEM-1/2 models

These two models are typical gemological microscopes with fixed stand.

A special ultrabright LED-based electronic condenser, with intensity control, and perfectly colour-matched to sunlight, allows to switch from bright to dark field.

The condenser uses a new optical configuration for a perfect dark field usability range.

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.

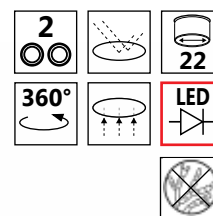
A special ultrabright LED-based electronic condenser, with intensity control, and perfectly colour-matched to sunlight, allows to switch from bright to dark field. The condenser uses a new optical configuration for a perfect dark field usability range. An additional flexible arm and velvet-field slider allow for extra contrast, for crisp and vibrant images even in a brightly lit environment.

A modular optional accessories, that include: gemology clip, an iris aperture diaphragm, a 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 immersion cells complete and enhance the instrument usability. All the accessories can be stacked, in any order, both when the microscope is being used as a horizontal unit and when it is in its vertical configuration.

The microscope body can be rotated through a full 360°, yet keeping the base sturdily fixed on the table, to show gems to a customer, or to share opinions with a colleague.



OPTIGEM-1



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.

Objectives

Parfocal achromatic objective 1x. Working distance: 110 mm.

Zoom range: 0,7x - 4,5x. Zoom factor: 6,428:1.

Specimen stage:

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

Focusing

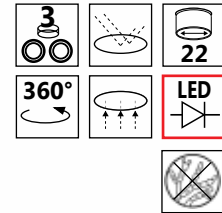
By means of a rack and pinion controlled by a pair of knobs placed on both sides of the stereomicroscope.

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 Series - OPTIGEM - 3/4 models

OPTIGEM - 3/4 models

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

A flexible arm with a fluorescent tube simulates north facing 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. Base 360° rotating.

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.

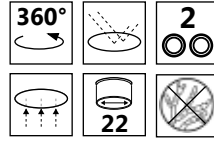
Transmitted illumination: system for observation with bright-field and darkfield, based on 30W halogen illumination and a dedicated reflecting system. Brightness adjustment.

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

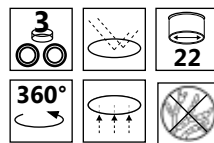
Input: 240Vac, 50Hz;

Max. required power: 45W.

OPTIGEM-3

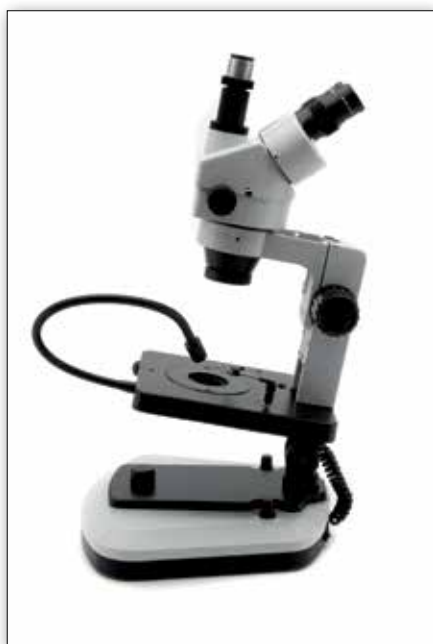


OPTIGEM-4



OPTIGEM Series - Technical specifications

Model	Head	Eyepiece	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	0,7x....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.
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

Accessories for SZM-GEM - 1/2:

- ST-230 Polarizing analysis kit
- ST-082 Eyepieces (pair) WF15x/15 mm
- ST-083 Eyepieces (pair) WF20x/10 mm
- ST-084 Micrometric eyepiece WF10x/20 mm
- ST-086 Additional lens 1,5x
- ST-087 Additional lens 2x
- ST-089 Full Frame reflex camera adapter
- ST-090 CCD camera adapter (for 1/3" sensors)
- ST-090.1 CCD camera adapter (for 1/2" sensors)
- ST-173 APS-C Reflex camera adapter

Accessories for OPTIGEM - 1/2:

- ST-201 Iris aperture diaphragm for darkfield
- ST-207 Iris aperture diaphragm for standard illuminator
- ST-202 Polarizing analysis kit
- ST-203 Glass immersion cell
- ST-204 Translating cell holder
- ST-205 Vacuum pick-up
- ST-082 Eyepieces (pair) WF15x/15 mm
- ST-083 Eyepieces (pair) WF20x/10 mm
- ST-084 Micrometric eyepiece WF10x/20 mm
- ST-086 Additional lens 1,5x
- ST-087 Additional lens 2x
- ST-089 Full Frame reflex camera adapter
- ST-090 CCD camera adapter (for 1/3" sensors)
- ST-090.1 CCD camera adapter (for 1/2" sensors)
- ST-173 APS-C Reflex camera adapter

Accessories for OPTIGEM - 3/4:

- ST-231 Polarizing analysis kit
- ST-142 Eyepieces (pair) WF15x/16mm
- ST-143 Eyepieces (pair) WF20x/12mm
- ST-144 Eyepieces (pair) WF25x/9mm
- ST-145 Micrometric eyepiece WF10x/22mm
- SAO1.5 Additional lens 1,5x
- SAO2 Additional lens 2x
- ST-146 Full frame Reflex camera adapter
- ST-147 CCD camera adapter (for 1/3" sensors)
- ST-147.1 CCD camera adapter (for 1/2" sensors)
- M-621 Halogen Bulb 6V/30W
- ST-173 APS-C Reflex camera adapter

15103 - Lens cleaner, 50ml

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



INDUSTRY Series

Metallurgical and measuring microscopes



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** Monocular portable microscope for measurement
- XZ-1** Monocular microscope for measurement with pillar stand
- XZ-2** Binocular microscope with pillar stand and 8" TFT LCD screen
- B-353MET** Trinocular upright metallurgical microscope
- B-500MET** Advanced trinocular upright metallurgical microscope
- XDS-3MET** Inverted metallurgical microscope
- B-1000MET** Advanced trinocular upright metallurgical microscope

INDUSTRY Range



XC-100L



XZ-1



XZ-2



B-353MET



XDS-3MET



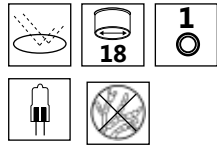
B-500MET



B-1000MET

INDUSTRY Series - XC-100L

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. 0.7...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.

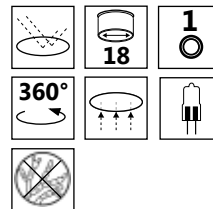
Focusing controlled by a rack and pinion mechanism.

Working distance: 96 mm.

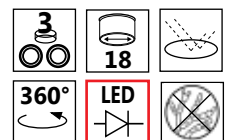
LED ring light generator with brightness control.

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

XZ-1



XZ-2



INDUSTRY Series - B-353MET

B-353MET - Upright metallurgical microscope

Head: Trinocular, 30° inclined, 360° rotating.

Eyepieces: WF10X/20mm.

Nosepiece: 5-positions, reversed.

Objectives: PLAN IOS 4x/0.10, 10x/0.25, 20x/0.40, 50x/0.75 (no cover slide).

Magnifications: 40x, 100x, 200x, 500x.

Focusing system: Coaxial coarse and fine.

Stage: Double layer with mechanical sliding stage, 160x142 mm, moving range 76x52 mm.

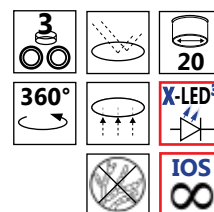
Condenser: 1.25 N.A., with iris diaphragm, focusable.

Illumination: High-power white X-LED³ whit brightness control.

Metallurgical Attachment: High-power white LEDTM; field and aperture diaphragm.

Filters: Blue, yellow, frosted, polarizer & analyzer.

B-353MET



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/0.14, 10x/0.25, 20x/0.4, 50x/0.7, 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.

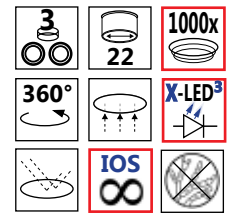
Condenser: 0,7 N.A. swing-out type, with iris diaphragm, centrable and focusable.

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.

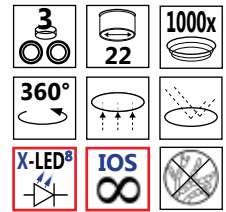
B-500MET



B-1000 MET Model



B-1000 MET



B-1000 MET

Typology:

RESEARCH MICROSCOPE

Description:

Laboratory microscope for routine and research applications.

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



Version for material analysis (transmitted and incident light).

Transmitted illumination X-LED⁸ (8W power).
Special attachment with built-in 100W halogen lamp.

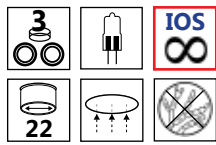
B-1000 MET Model - Configuration chart

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



INDUSTRY Series - XDS-3-MET

XDS-3-MET



XDS-3MET - Inverted metallurgical microscope

Head: Trinocular, 45° inclined.

Eyepieces: WF10X/22mm.

Nosepiece: 5-positions.

Objectives: LWD PLAN IOS MET (no cover slide): 5x/0.14, 10x/0.25, 20x/0.4, 50x/0.7.

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

Focusing system: Coaxial coarse and fine.

Stage: 250x230mm; mechanical stage with lowered ergonomic coaxial controls. X-Y range: 114x81mm.

Diaphragms: Field and aperture diaphragms (centrable).

Illumination: 12V/50W halogen bulb in external case. Centrable bulb and brightness control.

Filters: Blue, polarizer & analyzer.



INDUSTRY Series - Technical specifications

Model	Head	Eyepieces	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	0,7 4,5x Zoom	90 mm	Pillar stand	Incident illumination: halogen bulbs 12V/10W Transmitted illumination: halogen bulbs 12V/10W
XZ-2	Binocular	WF10x/18mm	0,7 4,5x Zoom	96 mm	Pillar stand with 8" TFT LCD screen	Incident illumination: LED ring light with brightness control



Model	Head	Eyepieces	Objectives	Nosepiece	Stage	Focusing	Condenser	Illumination
B-353MET	Trinocular	WF10x /20mm	Planachromatic IOS 4x, 10x, 20x, 50x (no cover slide)	Quintuple reversed	Double layer mechanical sliding stage, 160x142 mm, moving range 76x52 mm	Coaxial coarse and fine system, with limit stop	Brightfield condenser: 1.25 N.A. Abbe type, with iris diaphragm, focusable	Transmitted illumination: X-LED ³ Metallurgical Attachment: High-power white LED with field and aperture diaphragm.
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	Coaxial coarse and fine system, with limit stop	Brightfield condenser: 0,7 N.A. swing-out type, with iris diaphragm, centrabale and focusable	Transmitted illumination: X-LED ³ illumination system. Metallurgical Attachment: High-power white X-LED ³ system with brightness control.
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: 114x81 mm	Coaxial coarse and fine system, with limit stop	-----	12V/50W halogen bulb in external case. Centrabale bulb and brightness control.

B-1000MET

See the configuration chart for your own configuration

INDUSTRY Series - Accessories

M-899	XC-100L - Measuring microscope Pen illuminator
M-001	XZ-1 - Measuring monozoom microscope Eyepiece H5x
M-003	Eyepiece WF16x/12mm
M-005	Micrometric slide 26x76 mm, range 1 mm, div. 0,01 mm.
ST-012	Object-plate white/black, type 2 dia. 95 mm
ST-014	Glass stage, type 2, dia. 95 mm
ST-028	Halogen bulb 12V/10W
M-013	Halogen bulb, with dichroic mirror 12V/10W
ST-029	Dust cover type 12

M-001	XZ-2 - Measuring monozoom videomicroscope Eyepiece H5x
M-003	Eyepiece WF16x/12mm
M-004	Eyepiece micrometer WF10x/18mm.
M-005	Micrometric slide 26x76 mm, range 1 mm, div. 0,01 mm.

M-301	B-353MET - Upright metallurgical microscope Eyepiece high-point WF10x/20mm
M-302	Eyepiece high-point WF16x/12mm
M-303	Eyepiece micrometer high-point WF10x/20mm
M-005	Micrometric slide 26x76 mm, range 1 mm, div. 0,01 mm
M-330	Objective IOS Planachromatic 4x/0.10
M-331	Objective IOS Planachromatic 10x/0.25
M-332	Objective IOS Planachromatic 20x/0.40
M-333	Objective IOS Planachromatic 40x/0.65
M-335	Objective IOS Planachromatic 50x/0.75 (no cover glass)
M-334	Objective IOS Planachromatic 100x
M-365	Photo tube adapter for SLR cameras Full Frame
M-366	CCD camera adapter
M-031	Dust cover type 3
M-173	APS-C Reflex camera adapter

M-680	B-500MET - Upright metallurgical microscope Ergo Binocular Head 30°-60°
M-625	Eyepiece EWF10x/22mm
M-601	Eyepiece WF15x/16mm
M-602	Eyepiece micrometer EWF10x/22mm
M-005	Micrometric slide 26x76 mm, range 1 mm, div. 0,01 mm.
M-693.1	Objective IOS planachromatic 5x/0.14 (no cover slide)
M-694.1	Objective IOS planachromatic 10x/0.25 (no cover slide)
M-695.1	Objective IOS planachromatic 20x/0.40 (no cover slide)
M-696.1	Objective IOS planachromatic 50x/0.70 (no cover slide)
M-698.2	Objective IOS planachromatic 100x/0.90 DRY (no cover slide)
M-613	Polarising set (filters only) for transmitted light
M-615	Lambda filter for polarising set for transmitted light
M-614	Rotating table for polarising set

M-619	Photo tube adapter for SLR cameras Full Frame
M-699	Photo tube adapter for DIGI digital camera series
M-620	CCD camera adapter (for 1/3" sensors)
M-620.1	CCD camera adapter (for 1/2" sensors)
M-622	Halogen bulb 12V/50W
M-034	Dust cover type 5
M-975	Blue filter, 45 mm diameter for transmitted light
M-977	Green filter, 45 mm diameter for transmitted light
M-979	Yellow filter, 45 mm diameter for transmitted light
M-989	Frosted glass filter, 45 mm diameter
M-690	Eyecup (pair)
M-173	APS-C Reflex camera adapter

M-625	XDS-3MET - Inverted metallurgical microscope EWF10x/22mm Eyepiece
M-601	WF15x/16mm Eyepiece
M-602	Micrometer Eyepiece EWF10x/22mm
M-005	26x76 mm micrometric slide. Range 1mm, div. 0,01mm
M-735	LWD 5x/0.14 IOS planachromatic objective (no cover slide)
M-736	LWD 10x/0.25 IOS planachromatic objective (no cover slide)
M-737	LWD 20x/0.40 IOS planachromatic objective (no cover slide)
M-738	LWD 50x/0.70 IOS planachromatic objective (no cover slide)
M-746	LWD 100x/0.80 IOS plan achromatic objective (no cover slide)
M-619	Photo tube adapter for SLR cameras full frame
M-699	Photo tube adapter for DIGI digital camera series
M-789	CCD camera adapter
M-622	12V/50W halogen bulb
M-036	Dust cover type 7
M-173	APS-C Reflex camera adapter

M-1004	B-1000-MET - Inverted metallurgical microscope Centering telescope for phase contrast
M-005	Micrometric slide, 26x76mm, range 1mm, div. 0,01mm
M-613	Polarizing set (filters only)
M-615	Lambda filter for polarizing set
M-617.1	Set phase contrast, single IOS PLAN objective 40x
M-977	Green filter, 45mm diameter
M-690	Eyecup (pair)
M-619	Photo tube adapter for full frame SLR camera
M-173	Photo tube adapter for APS-C SLR camera
M-699	Photo tube adapter for DIGI digital camera series
M-620	CCD camera adapter for 1/3" sensor
M-620.1	CCD camera adapter for 1/2" sensor
15008	OPTIKA immersion oil, 10ml

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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