

## SZN Series

Laboratory stereozoom microscopes



# SZN Series

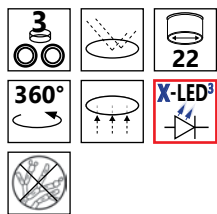
The stereomicroscopes of the SZN series are instruments designed for laboratory and industry applications.

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 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 6,7x...45x, simple pillar stand.
- SZN-2** Trinocular zoom stereomicroscope 6,7x...45x, simple pillar stand.
- SZN-3** Binocular zoom stereomicroscope 6,7x...45x, stand with X-Led incident and Led transmitted illuminators.
- SZN-4** Trinocular zoom stereomicroscope 6,7x...45x, stand with X-Led incident and Led transmitted illuminators.
- SZN-5** Binocular zoom stereomicroscope 6,7x...45x, stand with X-Led incident (2 arms) and Led transmitted illuminators.
- SZN-6** Trinocular zoom stereomicroscope 6,7x...45x, stand with X-Led incident (2 arms) and Led transmitted illuminators.
- SZN-7** Binocular zoom stereomicroscope 6,7x...45x, simple overhanging stand.
- SZN-8** Trinocular zoom stereomicroscope 6,7x...45x, simple overhanging stand.
- SZN-9** Binocular zoom stereomicroscope 6,7x...45x, hinged overhanging stand.
- SZN-10** Trinocular zoom stereomicroscope 6,7x...45x, hinged overhanging stand.

## SZN-4



# 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 black/white disc for contrast and specimen clamps.

## Focusing

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

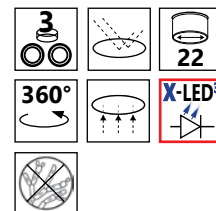
## Illumination

High efficiency X-LED<sup>3</sup> 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.

## SZN-6



## X-LED

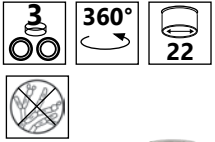
X-LED powered illumination system.



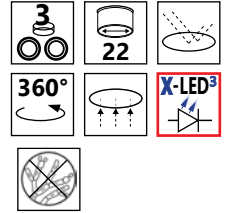
100mm wide illumination LED disc

# SZN Series - Models

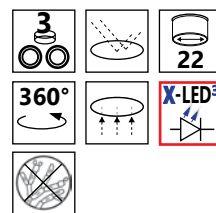
SZN-2



SZN-4

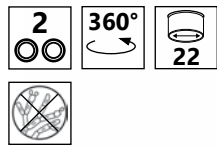


SZN-6

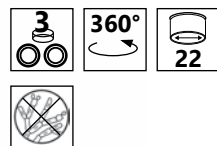


# SZN Series - Models

**SZN-7**

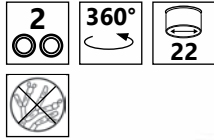


**SZN-8**

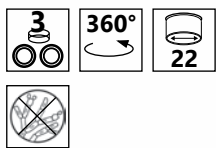


# SZN Series - Models

SZN-9



SZN-10



# SZN Series - Technical specifications

Model	Head	Eyepiece	Objectives	Working Distance	Stand	Illumination
<b>SZN-1</b>	Binocular	EWF10x/22	0,67....4,5x	110mm	Pillar stand with rack and pinion system	Without illumination.
<b>SZN-2</b>	Trinocular	EWF10x/22	0,67....4,5x	110mm	Pillar stand with rack and pinion system	Without illumination.
<b>SZN-3</b>	Binocular	EWF10x/22	0,67....4,5x	110mm	Pillar stand with rack and pinion system	Transmitted: 100 mm LED disc (60 chip LEDs) Incident: OPTIKA X-LED <sup>3</sup> .
<b>SZN-4</b>	Trinocular	EWF10x/22	0,67....4,5x	110mm	Pillar stand with rack and pinion system	Transmitted: 100 mm LED disc (60 chip LEDs) Incident: OPTIKA X-LED <sup>3</sup> .
<b>SZN-5</b>	Binocular	EWF10x/22	0,67....4,5x	110mm	Pillar with rack and pinion system	Transmitted: 100 mm LED disc (60 chip LEDs) Incident: double arm OPTIKA X-LED <sup>3</sup> .
<b>SZN-6</b>	Trinocular	EWF10x/22	0,67....4,5x	110mm	Pillar with rack and pinion system	Transmitted: 100 mm LED disc (60 chip LEDs) Incident: double arm OPTIKA X-LED <sup>3</sup> .
<b>SZN-7</b>	Binocular	EWF10x/22	0,67....4,5x	110mm	Simple overhanging stand	Without illumination.
<b>SZN-8</b>	Trinocular	EWF10x/22	0,67....4,5x	110mm	Simple overhanging stand	Without illumination.
<b>SZN-9</b>	Binocular	EWF10x/22	0,67....4,5x	110mm	Hinged overhanging stand	Without illumination.
<b>SZN-10</b>	Trinocular	EWF10x/22	0,67....4,5x	110mm	Hinged overhanging stand	Without illumination.

# SZN 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 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).

## 15104 - Lens cleaner, 50ml

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



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

Please refer to the Adapter reference list on Digital section.

BYk 'Mcf\_ 'AJWcgWtdY7 ca dUbnibW  
 FEEŠæ { ə Šæ ^EU\* ā ACP a • çā ^E^, Ä [ \ Ä Fi eF  
 V^BÄ i i È i i È G I ÄZæK FI È EFC I  
 , , , È & [ • & ] ^ ā c! } æā } æB { ÄZ { O } ^ • & ] ^ • B {

## Headquarters and Manufacturing Facilities

**OPTIKA® S.r.l.** Via Rigla, 30 - 24010 Ponteranica (BG) - ITALIA - Tel.: +39 035.571.392 - Fax: +39 035.571.435 - info@optikamicroscopes.com

## Optika Sales branches

**OPTIKA® Spain** spain@optikamicroscopes.com  
**OPTIKA® China** china@optikamicroscopes.com

**OPTIKA USA** usa@optikamicroscopes.com  
**OPTIKA Hungary** hungary@optikamicroscopes.com