



## **SERIE SZR**

*Stereomicroscopi da laboratorio*



OPTIKA Microscopes belongs to the group “M.A.D. Apparecchiature Scientifiche” and, with its almost 40 years experience in the field of scientific instrumentation, is worldwide known as a leading Company for optical microscopes’ production and distribution.

The Company, a team of 70 people in 3 different European locations, is engaged in the development of new models, production, quality control, sales and after-sales service.

OPTIKA microscopes excellence, concerning quality, innovation, competitive prices and customer assistance, reaches the end users through a wide network of national and international distributors.

## SZR SERIES

### THE SERIES

The SZR stereomicroscope series is specifically intended for research workers. Its functional features and its optical and mechanical qualities make it a reference point in the scientific research instruments market. It comprises 14 models typified by the technical solutions devised to meet the specific needs of the user.

The binocular and trinocular heads provided with zoom optics represent the heart of the SZR series. These are backed by numerous types of bases and stands suitable for any type of use. A wide range of accessories considerably increases the potential of these instruments.



## SZR SERIES - Technical specifications

Part	Description
Heads	Bino or trinocular, 360° rotating and 45° inclined.
Interpupillary distance	Adjustable between 52 and 75 mm.
Dioptic compensation	On both eyepiece tubes.
Eyepieces	EWF10x/22mm, high-point type for glasses.
Working distance	110 mm.
Objective	Parfocal achromatic zoom 0,67x...4,5x with continuously variable magnification (max. 45x in the standard configuration, can be increased to 180x).
Specimen stage	Except overhanging models, the instruments are fitted with a black/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	12V/15W halogen bulbs with light intensity adjustments. SZR-9 and SZR-10 models are the only ones with built-in illumination system. All others models with illumination have a system based on external power supply unit.
Stands	The series have 5 kinds of stands for every requirement. Simple for vision without transmitted illumination; simple + trans-illuminator base for incident and transmitted illumination; with incorporated illumination system in the base; the last ones with overhanging stands (simple or hinged), that allow very large objects to be viewed and to be handled or worked.

### The models

Model	Head	Eyepieces	Objective	Stand	Illuminator (s)
<b>SZR-1</b>	Binocular	EWF10x/22	0,67...4,5x	Simple base	-----
<b>SZR-2</b>	Trinocular	EWF10x/22	0,67...4,5x	Simple base	-----
<b>SZR-3</b>	Binocular	EWF10x/22	0,67...4,5x	Simple base	Incident halogen 12V/15W, external power supply
<b>SZR-4</b>	Trinocular	EWF10x/22	0,67...4,5x	Simple base	Incident halogen 12V/15W, external power supply
<b>SZR-5</b>	Binocular	EWF10x/22	0,67...4,5x	Trans-illuminator base	Incid. or transm., halogen 12V/15W, external power supply
<b>SZR-6</b>	Trinocular	EWF10x/22	0,67...4,5x	Trans-illuminator base	Incid. or transm., halogen 12V/15W, external power supply
<b>SZR-7</b>	Binocular	EWF10x/22	0,67...4,5x	Trans-illuminator base	Incid. and transm., halogen 12V/15W, external power supply
<b>SZR-8</b>	Trinocular	EWF10x/22	0,67...4,5x	Trans-illuminator base	Incid. and transm., halogen 12V/15W, external power supply
<b>SZR-9</b>	Binocular	EWF10x/22	0,67...4,5x	Pillar, base with illuminators	Incid. and transm., halogen 12V/15W, internal power supply
<b>SZR-10</b>	Trinocular	EWF10x/22	0,67...4,5x	Pillar, base with illuminators	Incid. and transm., halogen 12V/15W, internal power supply
<b>SZR-11</b>	Binocular	EWF10x/22	0,67...4,5x	Simple overhanging	-----
<b>SZR-12</b>	Trinocular	EWF10x/22	0,67...4,5x	Simple overhanging	-----
<b>SZR-13</b>	Binocular	EWF10x/22	0,67...4,5x	Hinged overhanging	-----
<b>SZR-14</b>	Trinocular	EWF10x/22	0,67...4,5x	Hinged overhanging	-----

## **SZR SERIES**



**SZR-2**



**SZR-6**



**SZR-10**

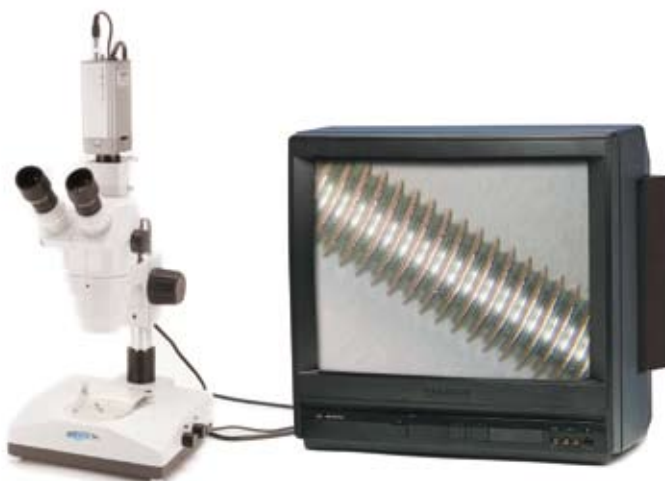
**SZR SERIES****SZR-12****SZR-14**

## SZR SERIES

### Photo/video applications

For microphotography with SRL 35mm type or digital type cameras, a model fitted with a trinocular head and the following optional accessories are required for taking pictures:

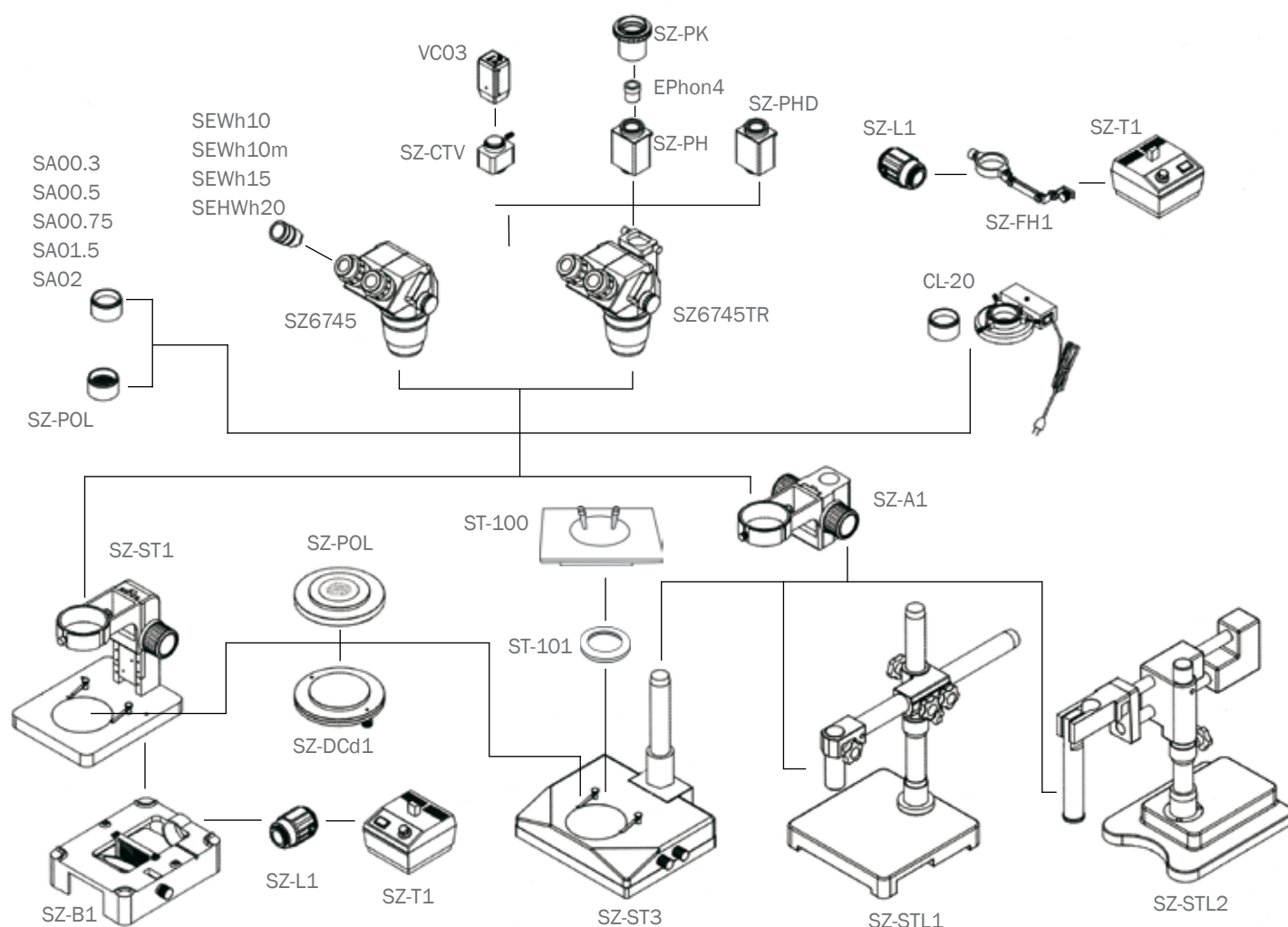
- SRL 35mm cameras: SZ-PH (photo tube, adapter for T/2 ring and 4x photo eyepiece). Purchase of the T/2 ring suitable to the type of SRL camera used is also indispensable.
- DIGI digital camera set: SZ-PHD tube adapter. The optical adapter is included in DIGI set. For video microscopy, a model fitted with a trinocular head and the following optional accessories are required for shooting with a CCD video camera: SZ-CTV CCD camera adapter and VC03 high-resolution CCD colour video camera. VC03 is supplied complete with built-in transformer, monitor connection cable, SCART adapter for TV connection and instruction manual.



# SZR SERIES - Optional accessories and spare components

## Optional accessories

A wide range of optional accessories is available in order to extend the possibilities offered by the SZR series instruments: additional optics; accessories for all photography/video applications, including the possibility of using DIGI digital camera set; darkfield & polarizing light.



## SZR SERIES - Accessories



SZ6745	Zoom binocular head, with eyepieces
SZ6745TR	Zoom trinocular head, with eyepieces
SZ-ST1	Simple base
SZ-B1	Slide projection base
SZ-ST3	Pillar stand
SZ-STL1	Simple overhanging stand
SZ-STL2	Hinged overhanging stand
SZ-A1	Focusing system
SZ-DCd1	Darkfield condenser
SZ-POL	Polarising set (filters and rotating stage)
SZ-L1	12V/15W halogen illuminator
SZ-FH1	Arm for illuminator SZ-L1
SZ-T1	Transformer for SZ-L1
SZ-PH	Photo tube complete with SZ-PK T/2 ring adapter and SEPhon4 photo eyepiece
SZ-PHD	Adapter for digital cameras DIGI series
SZ-CTV	CCD camera adapter
SEWh15	Eyepieces (pair) WF15x/16mm
SEHWh20	Eyepieces (pair) WF20x/12mm
SEWh10m	Micrometric eyepiece WF10x/22mm
SA00.3	Additional lens 0,3x (w.d. 287mm)
SA00.5	Additional lens 0,5x (w.d. 185mm)
SA00.75	Additional lens 0,7x (w.d. 120mm)
SA01.5	Additional lens 1,5x (w.d. 49mm)
SA02	Additional lens 2x (w.d. 28mm)
ST-100	Hand moving stage
ST-101	Ring adapter for mounting ST-100 on SZR series
ST-036	Eye cups (pair) type 2
ST-042	White/black object-plate, type 3, dia. 100 mm
ST-043	Glass stage, type 3, dia. 100 mm
ST-038	Halogen bulb, 12V/15W
ST-037	Halogen bulb, 12V/15W, with dichroic mirror
ST-039	Dust cover type 14