

## Z series

### HIGHLIGHTS

- Binocular and trinocular models
- SWF10x/23 mm eyepieces
- Stereo zoom heads with fix 45°, 60° or 90° inclined tubes
- Zoom magnification from 1 upto 420x
- Superior resolution
- Multiple stands
- 10 years warranty

## TECHNICAL SPECIFICATIONS

### EYEPIECES

Pair of SWF 10x/23 mm eyepieces

### HEAD

- Binocular or trinocular heads with 45°, 60° or 90° inclined tubes
- Diopter  $\pm 6^\circ$  adjustment on both tubes for Z series
- Interpupillary distance from 55 to 75 mm.

### ZOOM MAGNIFICATION OBJECTIVES

- Zoom objective with variable 0.4x to 2.5x magnifications
- Zoom objective with variable 0.7x to 4.5x magnifications
- Zoom objective with variable 1x to 7x magnifications

*Zoom objectives with click stops are also available on request.*

*All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated*

### STANDS WITHOUT ILLUMINATION

- ST.1710** Pillar stand with ST.1790 head holder. Pillar height 210 mm, diameter  $\varnothing$  20 mm. Dimensions 250 (h) x 150 (w) x 240 mm (d)
- ST.1718** Pillar ergonomically flat stand with ST.1790 head holder. Pillar height 213 mm, diameter  $\varnothing$  20 mm. Dimensions 258 (h) x 330 (w) x 306 mm (d)
- ST.1770** Large pillar stand with wooden base and ST.1790 head holder. Pillar height 360 mm, diameter  $\varnothing$  29 mm. Dimensions 400 (h) x 580 (w) x 500 mm (d). Especially suitable for SMD inspection

### STANDS WITH ILLUMINATION

- ST.1735** Rack & pinion stand with 3 W LED illumination and rotatable double-sided coated mirror (one frosted and one aluminium coated side). Especially developed for observation of transparent object. Very suitable equine or porcine embryo collection and transfer. Adjustable light intensity. Supplied with external power supply. Dimensions: 240 x 160 x 290 (D x W x H), min/max height 240-290



● ZE.1624 and ST.1735

- ST.1740** Rack & pinion stand with 10 W halogen illumination. Supplied with frosted filter for transmitted illumination and a blue filter for incident illumination. Both illuminations are adjustable and can be simultaneously used. With integrated power supply. Dimensions: 240 x 160 x 290 (D x W x H), min/max height 240-290 mm

### BOOM STANDS

- ST.1720** Articulated one arm boom stand with a 270 x 270 mm base, 610 mm and  $\varnothing$  29mm pillar, with orientable stereo head holder ST.1794. Vertical post 780 mm. Weight 19.5 kg
- 65.980/65.983** Articulated one arm stand to be mounted on a table with 85 mm diameter head holder. Depth positioning of stereo head between 33 and 100 cm. 65.983 Working distance between 0 and maximum 295 mm
- NZ.9027/65.983** Articulated one arm stand mounted on a heavy base with 85 mm diameter head holder. Depth positioning of stereo head between 33 and 100 cm. 65.983 Working distance between 0 and maximum 295 mm

**HEAD HOLDERS**

- ST.1790** Head holder with coarse adjustment\*
- ST.1796** Head holder with coarse and fine adjustment\*
- ST.1792** Head holder with coarse adjustment and opening for one fiber light guide\*
- ST.1794** Orientable head holder with coarse adjustment and opening for one fiber light guide\*\*
- ST.1798** Orientable head holder with coarse and fine adjustment and opening for one fiber light guide\*\*

\* Not suitable for ST.1720 and 65.980/65.983

\*\* Suitable for ST.1720

All head holders have an internal diameter of 84 mm and a friction adjustment

**STAGE**

- AE.1950** Large sliding X-Y stage, 350 x 270 mm, translation by hand

**PACKAGE CONTENT**

- Supplied with power cord, dust cover, a spare fuse and user manual
- All packed in a polystyrene box

**MODELS (ZOOM STEREO HEADS)**

	Binocular	Trinocular	Tilt tubes	objective zoom	Magnifications	Working distance (mm)	Field of view (mm)
ZE.1624	•		45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1654		•	45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1657		• <sup>1</sup>	45°	0.7 - 4.5x	7 - 45x	104	32/5.1
ZE.1670	•		45°	1 - 7x	10 - 70x	104	23/3.3
ZE.1671		• <sup>1</sup>	45°	1 - 7x	10 - 70x	104	23/7.7
ZE.1626	•		60°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1629	•		90°	0.7 - 4.5x	7 - 45x	110	32/5.1
ZE.1659		• <sup>1</sup>	45°	0.4 - 2.5x	4 - 25x	185	57/12,8

<sup>1</sup>) When the trinocular tube is engaged, the image is still available in both other tubes. All zoom stereo heads are supplied with SWF 10x/23 mm eyepieces with eyecups

	Column (mm)	Diameter (mm)	Rack & pinion	I x p base (mm)	Height (mm)	Head holder	Illumination
ST.1710	210	20		240 x 150	250	ST.1790	<sup>1</sup>
ST.1718	213	20		330 x 306	258	ST.1790	<sup>1</sup>
ST.1720	610	29		780 x 270	650	ST.1794	<sup>1</sup>
ST.1735	-		•	240 x 160	290		3 W LED
ST.1740	-		•	240 x 160	290		10 W Hal
ST.1770	360	29		500 x 580	400	ST.1790	<sup>1</sup>
65.980/65.983	-		•	∅ 1000	0/295	65.983	<sup>1</sup>
NZ.9027/65.983	-		•	∅ 1000	0/295	65.983	<sup>1</sup>

<sup>1</sup>) Systems can be equipped with a large number of optional illumination systems, for example ring light LE.1973 and LE.1974 or cold light source LE.5211-LED  
Please see our dedicated illumination brochure or website for more details

## ACCESSORIES AND SPARE PARTS

### EYEPIECES

- AE.1835** Pair of SWF5x/26 mm eyepieces
- AE.1836** Pair of SWF10x/23 mm eyepieces
- AE.1834** Pair of SWF12.5x/20 mm eyepieces
- AE.1837** Pair of SWF15x/16 mm eyepieces
- AE.1838** Pair of SWF20x/11.5 mm eyepieces
- AE.1840** Pair of SWF30x/7.5 mm eyepieces
- AE.5439** Pair of eyecups
- AE.5425** Pair of eyecups, suitable for spectacles

### MICROMETER EYEPIECES

*(with adjustable lens)*

- AE.1839** SWF10x/21mm with 10 mm/100 micrometer reticle and cross hairs
- AE.1841** SWF10x/21mm with 10 x 10 mm reticle, 400 squares
- AE.1842** SWF10x/21mm with photo corners marks

### MICROMETER SLIDES

- AE.1112** Object slide 76 x 26 mm with micrometer 50mm/500, 100 µm/division

### ADDITIONAL LENSES

*(for ZE.1659)*

- AE.1850** Additional 0.7x lens. Working distance 233 mm
- AE.1822** Additional 0.57x lens. Working distance 300 mm

### ADDITIONAL LENSES

*(for ZE.1624, ZE.1654, ZE.1670, ZE.1671, ZE.1626)*

- AE.1855** Additional 0.3x lens. Working distance 250 mm. Suitable with ST.1720, ST.1770, 65.980/65.983 and NZ.9027/65.983 stands
- AE.1870** Additional 0.44x lens. Working distance 180 mm. Suitable with ST.1720, ST.1770, 65.980/65.983 and NZ.9027/65.983 stands
- AE.1856** Additional 0.5x lens. Working distance 150 mm. Suitable with ST.1740. Maximum object size is 15 mm
- AE.1857** Additional 0.75x lens. Working distance 97 mm
- AE.1858** Additional 1.5x lens. Working distance 50 mm
- AE.1859** Additional 2.0x lens. Working distance 34 mm

### ADDITIONAL LENSES

*(for ZE.1629)*

- AE.1805** Additional 0.3x lens. Working distance 330 mm. Suitable with ST.1720, ST.1770, 65.980/65.983 and NZ.9027/65.983 stands
- AE.1806** Additional 0.5x lens. Working distance 198 mm. Suitable with ST.1720, ST.1770, 65.980/65.983 and NZ.9027/65.983 stands
- AE.1807** Additional 0.75x lens. Working distance 125 mm
- AE.1808** Additional 1.5x lens. Working distance 62 mm
- AE.1809** Additional 2.0x lens. Working distance 42 mm

### ADDITIONAL LENSES

*(for ZE.1657)*

- AE.1807** Additional 0.35x lens. Working distance 250 mm
- AE.1808** Additional 0.5x lens. Working distance 174 mm
- AE.1809** Additional 1.5x lens. Working distance 57 mm

### PROTECTION WINDOWS

*(to be screwed under the objectives)*

- AE.1845** Protection window for all heads of ZE series except ZE.1659
- AE.1825** Protection window for ZE.1659. Not suitable with additional lenses

### DARKFIELD

- AE.1878** Darkfield attachment for all stands with transmitted illumination
- AE.1879** Iris diaphragm suitable with AE.1878

### POLARIZATION

- AE.1890** Analyzer, in rotatable mount. Not suitable with ZE.1659
- AE.1891** Polarizer in mount. Suitable with ST.1740
- AE.1892** Retardation plate gypsum 1st order red. Suitable with polarizer AE.1891

### MECHANICAL STAGES

- AE.1876** Plain stage 145 x 115 mm with 75 x 50 mm X-Y mechanical stage on ball bearings. Horizontal coaxial adjustment. Double Vernier with 0.1 mm graduations. Only with ST.1710 and ST.1740
- AE.1896** Stage 145 x 115 mm with central glass object plate and 75 x 50 mm X-Y mechanical stage on ball bearings. Horizontal coaxial adjustments. Double Vernier with 0.1 mm graduations. Only with ST.1740
- AE.1877** Large stage 170 x 155 mm with 100 x 105 mm X-Y mechanical stage on ball bearings. For ST.1710 and ST.1740
- AE.1950** Large 390 x 390 mm stage with 360 x 360 mm X-Y mechanical stage. Only for ST.1720 and ST.1770

### OBJECT STAGES

- AE.1885** Round object low-profile table with frosted glass filter. Interchangeable with dark field ST.1740

### OBJECT PLATE - Ø 94 MM

- AE.1880** Acrylic translucent object plate
- AE.1881** Glass transparent object plate
- AE.1882** Acrylic black/white object plate

### FILTERS - Ø 40 MM

- AE.1897** Frosted glass filter
- AE.1898** Blue filter

## OBJECT HOLDER

- AE.5446** Orientable clamp for gems.  
Interchangeable with object plate clamp

## SPARE BULB AND FUSES

- SL.1868** 30 W 230 V incandescent bulb for ST.1750 stand  
**SL.1869** 10 W 6 V halogen bulb for ST.1740 illumination  
**AE.5252** Fuses for ST.1740 stand. Per 10 pieces

## ACCESSORIES

- AE.5059** Projection 0.45x objective with C-mount for cameras with 1/2" sensor. To be placed over a 23.2 mm tube of a ZE series photo tube. Optional reticle available
- AE.5063** Projection 0.7x objective with C-mount for cameras with 2/3" sensor. To be placed over a 23.2 mm tube of a ZE series photo tube. Optional reticle available
- DC.1320** Projection 1x objective with C-mount
- DC.1324** Projection 0.5x objective with C-mount for cameras with 1/2" sensor. To be inserted into a 23.2 mm tube
- DC.1326** Projection 0.33x objective with C-mount for cameras with 1/3" sensor. To be inserted into a 23.2 mm tube
- AE.5006** Projection 0.6x objective with C-mount
- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
- AE.5025** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras
- Other T2 adapters on request*



● ZE.1624 and ST.1735



ZE.1629 and AE.1796 ●