

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 (h) 250 x (w)150 x (d) 240 mm
- ST.1715** Pillar stand with ST.1792 head holder. Pillar height 250 mm, diameter \varnothing 20 mm. Dimensions (h) 290 x (w)150 x (d) 240
- ST.1717** Pillar ergonomically flat stand with ST.1790 head holder. Pillar height 250 mm, diameter \varnothing 20 mm. Dimensions (h) 290 x (w) 250 x (d) 350
- ST.1770** Large pillar stand with wooden base and ST.1790 head holder. Pillar height 360 mm, diameter \varnothing 29 mm. Dimensions (h) 400 x (w) 580 x (d) 500. 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



● ZE.1624 and ST.1735

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

- 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		• ¹	45°	0.7 - 4.5x	7 - 45x	104	32/5.1
ZE.1670	•		45°	1 - 7x	10 - 70x	104	23/3.3
ZE.1671		• ¹	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		• ¹	45°	0.4 - 2.5x	4 - 25x	185	57/12,8

¹) 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		240x150	250	ST.1790	¹
ST.1715	250	20		240x150	290	ST.1792	¹
ST.1717	250	20		320x250	290	ST.1790	¹
ST.1720	610	29		780x270	650	ST.1794	¹
ST.1735	-		•	240x160	290		3 W LED
ST.1740	-		•	240x160	290		10 W Hal
ST.1770	360	29		500x580	400	ST.1790	¹
65.980/65.983	-		•	ø 1000	0/295	65.983	¹
NZ.9027/65.983	-		•	ø 1000	0/295	65.983	¹

¹) 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.1715, 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.1715, 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** Analyser, 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, ST.1715 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, ST.1715 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 ●