

euromex | DZ Series

Stereo zoom
microscopes
for Industry
and Research



ENGLISH

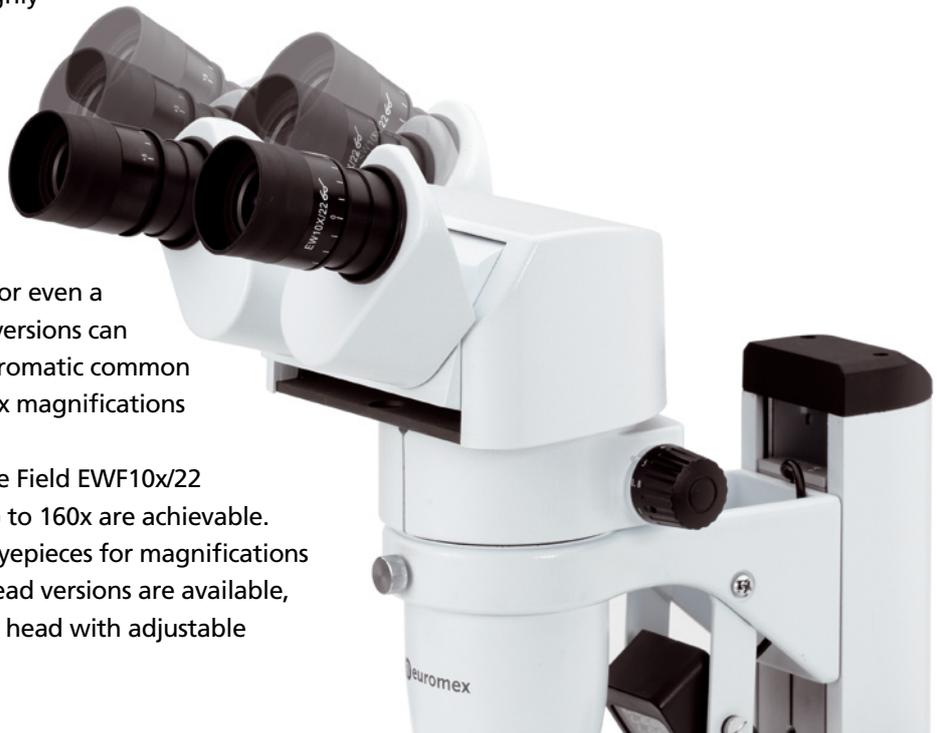
The Euromex DZ series are zoom stereo microscopes for Life- and Material science applications. Stereo microscopes are still favorite microscopes for Life- and Material Science but also to a multitude of industrial applications. The Euromex DZ series are top level stereo microscopes, which are commonly used for these areas

Optical equipment

The DZ series is designed around a highly precise Infinity Parallel Zoom body equipped with a Plan Apochromatic corrected common main objective providing the necessary high contrasting images and resolving power for high-tech applications

One can choose between an 1:6.3, 1:8 or even a 1:10 zoom ratio zoom body. All three versions can be equipped with 3 different Plan Achromatic common main objectives with 0.5x, 1.0x and 2.0x magnifications

Together with standard Extended Wide Field EWF10x/22 corrected eyepieces, magnifications up to 160x are achievable. Optionally WF 15x/16 and WF 20x/12 eyepieces for magnifications up to 320x are available. Two stereo head versions are available, a fixed 20° bino head or an ergonomic head with adjustable inclination from 5° up to 35°



Magnification, working distance and field of view with standard EWF10x/22 Extended Wide Field eyepieces

| Model | | Zoom indication | Objective 0.5x Working distance 126 mm | | Objective 1.0x Working distance 78 mm | | Objective 2.0x Working distance 33 mm | | |
|-------------------|-------------------|-------------------|---|---------------------|--|---------------------|--|---------------------|------|
| | | | Total magnification | Field of view in mm | Total magnification | Field of view in mm | Total magnification | Field of view in mm | |
| DZ.1100 / DZ.1105 | DZ.1800 / DZ.1805 | DZ.1600 / DZ.1605 | 0.8 x | 4x | 55 | 8x | 27.5 | 16 x | 13.7 |
| | | | 1.0 x | 5 x | 44 | 10 x | 22 | 20 x | 11 |
| | | | 1.5 x | 7.5 x | 29.3 | 15 x | 14.6 | 30 x | 7.3 |
| | | | 2.0 x | 10 x | 22 | 20 x | 11 | 40 x | 5.5 |
| | | | 3.0 x | 15 x | 14.6 | 30 x | 7.3 | 60x | 3.6 |
| | | | 4.0 x | 20 x | 11 | 40 x | 5.5 | 80 x | 2.7 |
| | | | 5.0 x | 25 x | 8.8 | 50 x | 4.4 | 100 x | 2.2 |
| | | | 6.0 x | 30 x | 7.3 | 60 x | 3.6 | 120 x | 1.8 |
| | | | 6.4 x | 32 x | 6.8 | 64 x | 3.4 | 128 x | 1.7 |
| | | | 7.0 x | 35 x | 6.3 | 70 x | 3,1 | 140 x | 1.5 |
| 8.0 x | 40 x | 5.5 | 80 x | 2,75 | 160 x | 1,4 | | | |

Outstanding stereo microscopes for the right price ...

DZ stand with dual LED illuminator

The DZ series can be mounted on an ergonomic stand, with both incident and transmitted LED illumination. Both illuminations can be adjusted with separate knobs



DZ.1800 with Ergo stereo head

Dual Iris diaphragm and phototube

A dual iris diaphragm DZ.9010 can be added to the configuration in order to achieve higher contrast and depth of focus

Phototubes

The optional phototube DZ.9005 has one standard 23.2 mm tube. The optional DZ.9007 comes with two standard 23.2 mm photo tubes. The DZ.9009 phototube with one 23.2 mm tube is suitable for the fluorescence attachment. The photo tubes can either be equipped with a C-mount thread to accommodate CCD and CMOS type cameras or an adapter for Canon, Nikon or other SLR cameras

Additional illumination equipment

Several industrial ring LED illumination systems with intensity and segment controllers and/or multiple cold light sources can easily be added to the DZ stereo microscopes for different contrast methods

Universal stand

A universal stand with holder enables the observer to examine larger objects and move away the stereo head when necessary



DZ.5020 Universal stand without illumination

Equipment for fluorescence microscopy

The fluorescence attachment consists of a filter house for maximum 4 filter blocks and a 100 Watt mercury-vapor lamp unit. A mechanical shutter can block the excitation light to reach the sample. The DZ.9009 phototube with a 23.2 mm tube can also be added to the fluorescence attachment. When phototube is engaged, the sample can be observed through one (left) eyepiece



Systems

- DZ.1600** DZ Zoom 1:6.3 stereo microscope with Ergo bino head 5-35°, EWF 10x/22 Eyepieces, 1x Plan Apochromatic Main Objective and large ergonomic LED stand. Magnification from 8x up to 50x
- DZ.1605** DZ Zoom 1:6.3 stereo microscope with standard bino head 20°, EWF 10x/22 Eyepieces, 1x Plan Apochromatic Main Objective and large ergonomic LED stand. Magnification from 8x up to 50x
- DZ.1800** DZ Zoom 1:8 stereo microscope with Ergo bino head 5-35°, EWF 10x/22 Eyepieces, 1x Plan Apochromatic Main Objective and large ergonomic LED stand. Magnification from 8x up to 64x
- DZ.1805** DZ Zoom 1:8 stereo microscope with standard bino head 20°, EWF 10x/22 Eyepieces, 1x Plan Apochromatic Main Objective and large ergonomic LED stand. Magnification from 8x up to 64x
- DZ.1100** DZ Zoom 1:10 stereo microscope with Ergo bino head 5-35°, EWF 10x/22 Eyepieces, 1x Plan Apochromatic Main Objective and large ergonomic LED stand. Magnification from 8x up to 80x
- DZ.1105** DZ Zoom 1:10 stereo microscope with standard bino head 20°, EWF 10x/22 Eyepieces, 1x Plan Apochromatic Main Objective and large ergonomic LED stand. Magnification from 8x up to 80x

Visit www.euromex.com to see more available systems

Components

- DZ.0630** DZ Zoom body 1:6.3, magnification 0.8x to 5.0x
- DZ.0800** DZ Zoom body 1:8, magnification 0.8x to 6.4x
- DZ.1000** DZ Zoom body 1:10, magnification 0.8x to 8.0x
- DZ.2020** Ergo bino head 5-35°
- DZ.2025** Standard bino head 20°
- DZ.3010** EWF 10x/22 eyepiece, 1 piece
- DZ.3012** EWF 10x/22 eyepiece with crosshair, 1 piece
- DZ.3015** WF 15x/16 eyepiece, 1 piece
- DZ.3020** WF 20x/12 eyepiece, 1 piece
- DZ.4005** 0.5x Plan Apochromatic Main Objective
- DZ.4010** 1.0x Plan Apochromatic Main Objective
- DZ.4020** 2.0x Plan Apochromatic Main Objective
- DZ.5020** Universal stand without illumination approx. 28x40x46 cm (L x D x H)
- DZ.5040** Large Ergo stand with dual LED illumination
- DZ.9005** Single photo attachment with 23.2 mm tube
- DZ.9007** Dual photo attachment with two 23.2 mm tubes
- DZ.9009** Single photo attachment for fluorescence attachment with 23.2 mm tube
- DZ.9010** Dual Iris diaphragm module
- DZ.9011** C-mount adapter with 0.4x lens for photo attachment
- DZ.9013** C-mount adapter with 1.0x lens for photo attachment
- DZ.9020** Translation stage, 185x145 mm with travel range 50x50 mm, moveable by hand
- DZ.9040** Darkfield attachment for DZ.5040
- DZ.9045** Polarisator 360° rotatable, fits all DZ objectives
- DZ.9047** Polarisator 360° rotatable, fits on DZ.5040 stand
- DZ.9050** Fluorescence attachment with 100W mercury-vapor lamp
- DZ.9060** Filter block GFP-B (EX 460-500, DM 505, EM 510-560)
- DZ.9061** Filter block GFP-L (EX 460-500, DM 505, EM 510)
- DZ.9062** Filter block CFP-B (EX 430-450, DM 455, EM 465-495)
- DZ.9063** Filter block YFP-B (EX 490-510, DM 525, EM 530-560)
- DZ.9064** Filter block G (EX 515-550, DM 570, EM 590)
- DZ.9065** Filter block RFP-B (EX 525-555, DM 570, EM 585)

Accessories

- AE.1112** Object micrometer 50 mm divided in 500 divisions
- AE.1900** Glass stage, 100 mm diameter
- AE.1903** Black/white acrylic stage, 100 mm diameter
- AE.5128** SLR camera adapter with 2x lens for 23.2 mm tubes
To be used with T-2 camera adapter
- AE.5025** T-2 adapter for Nikon SLR camera
- AE.5040** T-2 adapter for Canon SLR camera
- AE.1385** Spare 100 W mercury-vapor lamp for DZ.9050
- SL.5520** LED replacement for incident illumination of DZ.5040
- SL.5222** LED replacement for transmitted illumination of DZ.5040



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