



X-series
C-series



euromex

The X-series

The Euromex X-series microscopes are perfect for use at schools and in laboratories.

The nice, ergonomically designed stand is very comfortable in use. All movable parts of the stand have ball bearing.

The rigid finishing of these microscopes guarantee a long lifetime and satisfactory use.



XE.5625

X-series models

Model	Tube	DIN eyepieces with arrow pointer	Achromatic DIN objectives	Illumination	Remarks
XE.5612	Monocular	WF 10x / 18	4x, 10x, 40x	Adjustable LED	Built-in charger with NiMH battery
XE.5615	Monocular	WF 10x / 18	4x, 10x, 40x	Standard bulb 230V, 20W	
XE.5620	Monocular	WF 10x / 18	4x, 10x, 40x	Fluorescence 5W	
XE.5625	Monocular	WF 10x / 18	4x, 10x, 40x	Adjustable halogen 12V, 10W	
XE.5627	Monocular*	WF 10x / 18	4x, 10x, 40x	Adjustable halogen 12V, 10W	* Discussion microscope
XE.5629	Monocular*	WF 10x / 18	4x, 10x, 40x	Adjustable halogen 12V, 10W	* Video microscope
XE.5645	Monocular	HWF 10x / 18 without arrow pointer	4x, 10x, 40x, 100x	Adjustable halogen 12V, 10W	Integrated mechanical stage with vertical control
XE.5647	Binocular	Pair HWF 10x / 18 without arrow pointer	4x, 10x, 40x, 100x	Adjustable halogen 12V, 10W	Integrated mechanical stage with vertical control



Binocular head AE.5808



Mechanical stage AE.5173



Discussion tube AE.5811

Optical equipment

The achromatic objectives are parfocally aligned on the 160 mm DIN tubes. When changing the magnification the image remains perfectly centred and the slide remains visible. The high-quality lenses provide an optimal image quality and the anti-reflection coating prevents unwanted image distortion. The DIN eyepieces WF 10x/18 or HWF 10x/18 of the X- and C-series provide a large image view. The parfocal length of the C-series objectives is 35 mm, those of the X-series 45 mm. All X-series microscopes are equipped with a height adjustable Abbe condenser and can be used with an 100x objective. With the C-series one can choose between a fixed one-lens condenser or a height adjustable Abbe condenser.

Stand

The object can be focussed by using coarse and fine adjustment knobs. The knobs of the X-series are coaxial and the fine adjustment works over the entire range of adjustment which enables a very precise focussing. The coarse adjustment is equipped with a safety device which prevents damaging the objective and slide.

Table

The fixed table of 120x120 mm has two object clamps. With the optional mechanical stage the object can be moved by using translation knobs. The microscopes XE.5645 and XE.5647 have a large built-in mechanical stage, X-Y translation 70x30 mm, Vernier 0.1 mm, with vertical coaxial controls. The types CE.5845 and CE.5847 are supplied with an attachable mechanical stage AE.5175.

Illuminator

The X-series and C-series are supplied with a 20 Watt standard illumination, a fluorescent daylight illumination or a halogen illumination. The X-series can also be supplied with an LED illumination.

The advantage of using fluorescence illumination is the reproduction of the natural colours of the slide and the very low heat development. Beside these advantages this illumination is very pleasant to work with due to its homogeneous character.

The LED illumination – with built-in rechargeable battery and charger – is ideal in case there is no 230 Volts connection. The light power is adjustable. Fully charged batteries are suitable for 75 hours of usage.

Integrated mechanical stage from XE.5645, XE.5647



General technical information

Observation tube	Mono or binocular. 45° tube, 360° rotating, tube length 160 mm. The binocular head has eye correction on both tubes, +/- 5 diopters. Adjustable eye distance 50-75 mm
Stand X-series	Focussing through coaxial coarse and fine adjustment knobs with scale (interval 5µm)
Stand C-series	Focussing through coarse and fine adjustment knobs with scale (interval 2µm)
Protection	Specimen protection to prevent damage of objective and specimen
Eyepieces	WF 10x/18, with the monocular models equipped with fixed arrow pointer and screw locked. Microscopes XE.5645, XE.5647, CE.5845 and CE.5847 with DIN HWF 10x/18 eyepieces, suitable for people with spectacles
Revolving nosepiece	With ball bearing and click-stop for 4 objectives
Stage	120 x 120 mm with 2 fixed object clamps. Microscopes XE.5645 and XE.5647 with large built-in mechanical stage, X-Y translation 70x30 mm, Vernier 0,1 mm, with vertical coaxial control. The types CE.5845 and CE.5847 are supplied with attachable mechanical stage AE.5175
Objectives X-series	Achromatic DIN objectives 4x, 10x, 40x with colour code. The 40x objective contains a spring
Objectives C-series	Achromatic objectives 4x, 10x, 40x with colour code. The 40x objective contains a spring
Condenser X-series	Height adjustable Abbe condenser
Condenser C-series	Fixed one-lens condenser or height adjustable Abbe condenser
Packing	Complete with dust cover in styrofoam case
Manual	English

The C-series

The famous C-series microscopes have a steady position in the market.

The C-series is often considered as the original of these types of microscopes and is due to the firm construction very suitable for use at schools and in small laboratories.



CE.5815-HR

C-series models

Model	Tube	DIN eyepieces with arrow pointer	Achromatic DIN objectives	Illumination	Remarks
CE.5800	Monocular	WF 10x / 18	4x, 10x, 40x	Mirror	Fixed one lens condenser
CE.5810	Monocular	WF 10x / 18	4x, 10x, 40x	Mirror	Abbe condenser
CE.5805	Monocular	WF 10x / 18	4x, 10x, 40x	Standard bulb 230V, 20 W	Fixed one lens condenser
CE.5815	Monocular	WF 10x / 18	4x, 10x, 40x	Standard lamp 230V, 20W	Abbe condenser
CE.5815-FL	Monocular	WF 10x / 18	4x, 10x, 40x	Fluorescence 5W	Abbe condenser
CE.5815-H	Monocular	WF 10x / 18	4x, 10x, 40x	Halogen 12V 20W	Abbe condenser
CE.5815-HR	Monocular	WF 10x / 18	4x, 10x, 40x	Adjustable halogen 12V, 20W	Abbe condenser
CE.5827	Monocular*	WF 10x / 18	4x, 10x, 40x	Halogen 12V, 20W	* Discussion microscope
CE.5829	Monocular*	WF 10x / 18	4x, 10x, 40x	Adjustable halogen 12V, 20W	* Video microscope
CE.5845	Monocular	HWF 10x / 18, without arrow pointer	4x, 10x, 40x, 100x	Adjustable halogen 12V, 20W	Abbe condenser and stage AE.5175
CE.5847	Binocular	Pair HWF 10x / 18, without arrow pointer	4x, 10x, 40x, 100x	Adjustable halogen 12V, 20W	Abbe condenser and stage AE.5175

Optional accessories



Head, without eyepieces

- AE.5804 Monocular 45° tube
- AE.5808 Binocular 45° tube with diopter adjustment
- AE.5811 Discussion tube, for simultaneous observing

Eyepieces

- AE.5064-C Huygens eyepiece 6x / 18.5
- AE.5065-C Huygens eyepiece 10x / 12.5
- AE.5071 Wide field eyepiece WF 5x / 20
- AE.5072 Wide field eyepiece WF 10x / 18
- AE.5073 Wide field eyepiece WF 15x / 12
- AE.5087 Wide field eyepiece WF 16x / 10.5
- AE.5082 Wide field eyepiece WF 20x / 10
- AE.5081 Wide field eyepiece WF 10x / 18 with fixed pointer
- AE.5360 Eyeshade suitable for all eyepieces

Micrometers

- AE.5074 Micrometer wide field eyepiece WF 10x / 18, adjustable eye lens, scale 10 mm/100
- AE.5084 Micrometer wide field eyepiece WF 10x / 18, fixed eye lens, scale 10 mm/100
- AE.5075 Eyepiece micrometer scale 10 mm/100, \varnothing 19 or 21 mm
- AE.5076 Eyepiece micrometer scale, 10 mm/100 and cross hair, \varnothing 19 or 21 mm
- AE.5077 Eyepiece scale with cross hair, \varnothing 19 or 21 mm
- AE.5078 Eyepiece scale 10 x 10 mm, divided into 400 squares, \varnothing 19 or 21 mm

When ordering, please mention the part number of the eyepiece.

- AE.5110 Stage micrometer on glass slide 76 x 26 mm, 1 mm/100
- AE.5111 Stage micrometer on glass slide 76 x 26 mm, 2 mm/200

Achromatic DIN objectives for X-series microscopes

45 mm parfocal length

- AE.5691 DIN objective 4x, N.A. 0.10
- AE.5693 DIN objective 10x, N.A. 0.25
- AE.5694 DIN objective S20x, N.A. 0.40
- AE.5697 DIN objective S40x, N.A. 0.65
- AE.5699 DIN objective S60x, N.A. 0.85
- AE.5700 DIN objective S100x, oil immersion N.A. 1.25

Achromatic objectives for C-series microscopes

35 mm parfocal length

- AE.5091-C Objective 4x N.A. 0.10
- AE.5093-C Objective 10x N.A. 0.25
- AE.5094-C Objective S20x N.A. 0.40
- AE.5097-C Objective S40x N.A. 0.65
- AE.5099-C Objective S60x N.A. 0.85
- AE.5102-C Objective S100x N.A. 1.25 oil immersion

Dark field

- AE.5172 Dark field diaphragm disc for objectives 10x - 40x.
This diaphragm can simply be inserted in the filter holder

Polarisation

- AE.5150 Polarisation set. The analyser is placed in the eyepiece and the polarizer is mounted in the filter holder
- AE.5153 Polarisation set for microscopes without mechanical stage. The analyser is placed on top on the eyepiece. The polarizer is mounted in an attachable stage (90 x 65 mm). Rotating object holder with object clamps, graduation 360°, accuracy 5°
- AE.5155 Retardation filter set. Small plate of gypsum, red - 540 μ m - and mica - 140 μ m - to be used in combination with a polarizing set

Mechanical stages (attachable)

- AE.5173 Stable mechanical stage, range 50 x 30 mm, double Vernier 0.1 mm, horizontal control knobs
- AE.5176 Stable mechanical stage, range 65 x 25 mm, double Vernier 0.1 mm, vertical control knobs
- AE.5175 Large attachable mechanical stage with ball bearing, low-mounted coaxial control knobs, range 75 x 30 mm, double Vernier 0.1 mm

Heating stages

- AE.5165 Attachable heating stage with adjustable temperature up to 45°C and adjustable power supply. Not to be used in combination with a mechanical stage
- AE.5166 Heating attachment with adjustable temperature up to 50°C and built-in digital thermometer. Only supplied in combination with the purchase of a microscope. Suitable for microscopes XE.5625 and CE.5815

Sub stage microscope illuminators, to replace the mirror

- LE.5184 Sub stage microscope illuminator 230 Volts, 20 Watt with power cable and switch. Suitable for C-series, also available for 6, 12, 24 and 120 Volts*
- LE.5185 LED sub stage microscope illuminator with rechargeable batteries. Operating time app. 80 hrs. Suitable for C-series
- LE.5195 Battery charger for LED sub stage microscope illuminator

Spare bulbs and fuses

- SL.5180 Fluorescent bulb 5 Watt
- SL.5182 Spare bulb 230 Volts 20 Watt with reflector for sub stage microscope illuminator LE.5184, in case more light is needed*
- SL.5189 Spare bulb 230 Volts 20 Watt, on request also available for 6, 12, 24 or 120 Volts*
- SL.5190 Spare bulb 230 Volts 20 Watt with reflector for XE.5615, CE.5805 and CE.5815, in case more light is desired*
- SL.5206 Spare halogen bulb 12 Volts 10 Watt with cold-light reflector for X-series with halogen illumination
- SL.5208 Spare halogen bulb 12 Volts 20 Watt with cold-light reflector for CE.5845 and CE.5847
- SL.1379 Spare halogen bulb 12 Volts 20 Watt for C-series with halogen illumination
- SL.5227 Fuses 250 Volts/1A. Packed per 10 pieces

* Standard 230 Volts. For other voltages, e.g. 120 Volts, please add -120 to the article number.

Drawing attachment, filters etc.

- AE.5202 Blue filter – daylight filter, frosted, ø 32 mm
- AE.5207 Blue filter plexi-glass, ø 32 mm
- AE.5203 Yellow filter, ø 32 mm
- AE.5204 Neutral grey filter, ø 32 mm
- AE.5205 Green filter, frosted, ø 32 mm

Cabinets for microscopes

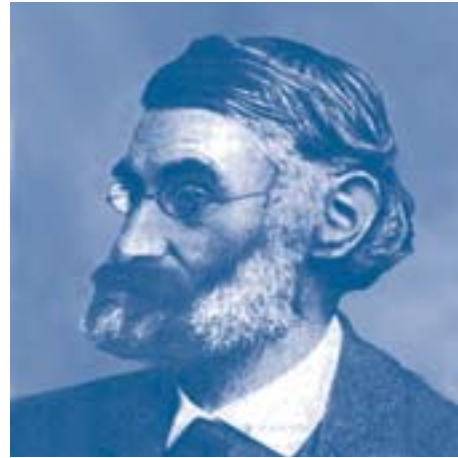
- AE.5685 Cabinet with handle and lock for X-series microscopes
- AE.5801 Cabinet with handle and lock for C-series microscopes

Accessories for photography and- video cameras

- AE.5061 Photo eyepiece PH 2.5 x / 16
- AE.5126 Adapter for SLR camera with T2 mount. To be used with a photo eyepiece. Also for AE.5811.
- AE.5812 Vertical tube with C-mount for video cameras VC.3011 or VC.3021
- AE.5813 Discussion head with C-mount for CCD camera on the vertical tube

On request we supply T2-adapters for AE.5126 and adapters for digital photo cameras.

Please enquire for an overview of our camera range.



Ernst Abbe (1840 – 1905)

Ernst Abbe was a brilliant German mathematician and physicist who made several of the most important contributions to the design of lenses for optical microscopy.

His invention of the condenser provided a high-powered even illumination of the field of view. These so-called Abbe Condensers are an important part of today's microscopes such as the Euromex X- and C-series.



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