Achios-X Observer

FLUORESCENCE

HIGHLIGHTS

- **Extra Wide field WF eyepieces 10x/22 mm, Ø 30 mm**
- **LED fluorescence (365, 485 and 520 nm)**
- **Smart Light Control (SLC)**
- **Revolving quintuple or sextuple reversed nosepiece**
- **Infinity corrected EIS Plan or Plan Semi-Apochromatic EIS objectives**
- **Low positioned stage adjustment knobs**
- **3 W NeoLED™ transmitted illumination with adjustable color temperature**
- **10 years warranty**

● *EAX-3153-PLi*

EAX-3153-PLI	513 (h) x 255 (w) x 487 mm (d) | 15.6 kg
EAX-3158-PLI	586 (h) x 255 (w) x 487 mm (d) | 17.5 kg

TECHNICAL SPECIFICATIONS

EYEPIECES

- EWF 10x/22 mm eyepiece, with diopter adjustment

HEADS

- Standard Siedentopf binocular or trinocular with 30° inclined tubes. A 0.5x c-mount adapter is included (a 1x is optional)
- Siedentopf trinocular (100:0/0:100 switch) with 30° inclined tubes
- Ergonomic tilting head (0° - 35°). A 23.2 mm phototube is included. Several c-mount adapters are available (lenses optional)

NOSEPIECE

- A quintuple or an optional sixtuple nosepiece on ball- bearings, equipped with gripped ring
- With 25 mm objectives mounting threads

OBJECTIVES - 60 MM PARFOCAL*

- Plan infinity corrected EIS objectives
- Plan Semi-Apochromatic infinity corrected EIS objectives

**M25 mounting thread*

STAGE

- 230 x 150 mm rackless hard coated stage with 78 x 54 mm X-Y mechanical stage
- Suitable for two slides
- Allows for single handed placement of slides

FOCUSING

- Coarse travel 18 mm, fine adjustment 0.2 mm per rotation
- With 0.002 mm divisions
- Range 30 mm

CONDENSERS

Depending on the configuration, the Achios-X Observer is supplied with

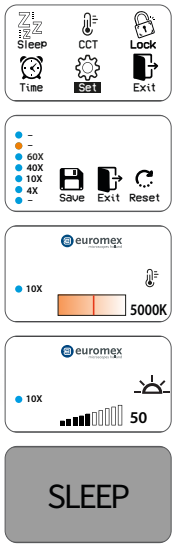
- Standard Abbe Condenser
- Swing-out Abbe Condenser

ILLUMINATION

The Köhler 3W NeoLED™ illumination provides a bright and uniformly illuminated field of view. With external 100-240 Vac power supply

SMART LIGHT CONTROL

This intelligent feature memorizes the light intensity level for each objective. The color temperature of the NeoLED™ light source can be adjusted and stored. This innovation not only heightens comfort but also saves valuable time during routine magnification shifts. The eco-friendly NeoLED™ light source is both environmentally conscious and built to endure. The sleep function switches the light source off, after a user definable time laps



ILLUMINATION FOR FLUORESCENCE

The fluorescence attachment of the Achios-X Observer is equipped with a 4-positions rotating mechanism that can be used to select between any of the 3 filter sets and brightfield (transmitted light). It is supplied with 3 dedicated LED sources to match the included fluorescence filter sets

Supplied with UV shield and standard fluorescence filters sets for

EAX-9745 Blue excitation @ 485 nm with long pass filter set (EX 460-495 DM 505 EM 510 LP)

EAX-9746 Green excitation @ 525 nm with long pass filter set (EX 510-550 DM 570 EM 575 LP)

EAX-9748 UV excitation @ 365 nm with long pass filter set (EX 330-385 DM 410 EM 420 LP)

Power for fluorescence attachment is supplied by the microscope

OPTIONAL FLUORESCENCE FILTER SETS

AX.9750.FITC FITC standard band pass filter set (EX 460-495 DM 505 EM 510-550)

AX.9750.39002 FITC optimized band pass filter set (EX 465-495 DM505 EM 515-555)

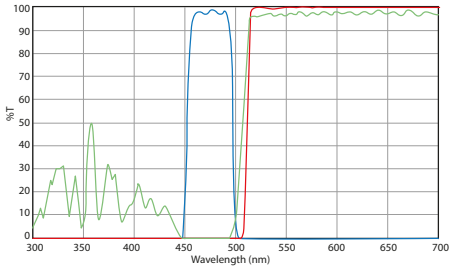
AX.9750.49002 FITC zero-shift optimized band pass filter set (EX 450-490 DM495 EM 500-550)

AX.9750.49011 FITC zero-shift optimized band pass filter set (EX 460-500 DM 510 EM 510-560)

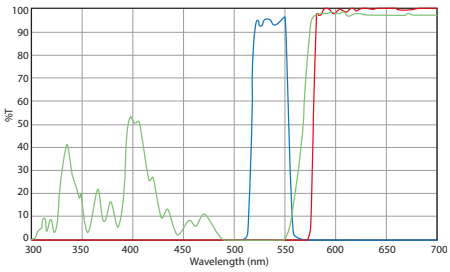
AX.9750.DAPI DAPI band pass filter set (EX 360-390 DM 415 EM 435-485)

AX.9750.39000 DAPI band pass filter set (EX 361-389 DM 415 EM435-485)

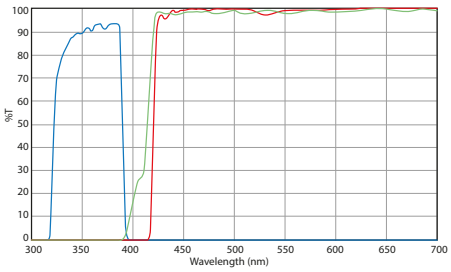
AX.9750.49000 DAPI band pass filter set (EX 325-375 DM 400 EM435-485)



● *EAX-9745*



● *EAX-9746*



● *EAX-9748*

Spectral range

NEOLED

The innovative NeoLED™ design is a combination of a custom LED and a specially designed thin lens with a short focal length in order to:

- collect more oblique light from the NeoLED™ light source, which increases the light output significantly
- consume less energy for a higher level of light intensity
- produce images at higher resolutions due to the larger aperture of the NeoLED™
- achieve a longer life span, up to 50.000 hrs nominal, L70 norm

CSS – CABLE STORAGE SYSTEM

Allows users to easily stow away excess cable length into the back of the instrument during operation and to roll up the power cable for easy storage

CARRYING GRIP

The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope

PACKAGING

Supplied with power cord, orange protection screen, dust cover, screwdriver, user manual and 5 ml immersion oil for models supplied with a 100x objective

MODELS	Binocular	Trinocular	Ergo head	eyepieces EW 10x/22 mm	Plan IOS objectives 4/10/40/100x (oil)	Plan Semi-Apo IOS Fluarex objectives 4/10/40/100x (oil)	LED Fluorescence Blue, Green, UV
EAX-3152-PLi	•			•	•		• [1]
EAX-3153-PLi		•		•	•		• [1]
EAX-3158-PLi			•	•	•		• [1]
EAX-3152-APLi	•			•		•	•
EAX-3153-APLi		•		•		•	•
EAX-3158-APLi			•	•		•	•

Sixtuple nosepiece is also available

Some models are also available as in vitro diagnostic medical devices class A - (EU) 2017/746. Contact your Euromex dealer

[1] Not suitable for UV LED because of incompatibility with PLi objectives (Objective will be damaged due to long term UV absorbtion)

ACCESSORIES AND SPARE PARTS

EYEPIECE (Ø30 MM TUBE)

EAX-6010 EWF 10x/22 mm eyepiece for Achios-X observer. With diopter adjustment

OBJECTIVES

Plan infinity corrected PLi, EIS 60 mm parfocal. 25 mm mounting thread

EAX-7202 2x/0.06 PLi objective*. WD 7.5 mm
EAX-7204 4x/0.10 PLi objective*. WD 30 mm
EAX-7210 10x/0.25 PLi objective*. WD 10.2 mm
EAX-7220 20x/0.40 PLi objective**. WD 10.2 mm
EAX-7240 S40x/0.65 PLi objective**. WD 1.5 mm
EDX-7250 S50x/0.95 oil immersion PLi objective**. WD 0.19 mm
EAX-7260 S60x/0.80 PLi objective**. WD 1.5 mm
EAX-7200 S100x/1.25 oil-immersion PLi objective**. WD 0.3 mm

Plan Semi-Apochromatic infinity corrected PL-SAFi Fluarex, EIS 60 mm parfocal. 25 mm mounting thread

EAX-7304 4x/0.15 PL-SAFi objective*. WD 0.17 mm
EAX-7310 10x/0.3 PL-SAFi objective*. WD 15.8 mm
EAX-7320 20x/0.5 PL-SAFi objective**. WD 2.7 mm
EAX-7340 S40x/0.75 PL-SAFi objective**. WD 1.35
EAX-7300 S100x/1.25 oil-immersion PL-SAFi objective**. WD 0.18 mm

WD = Working distance
** No coverglass correction*
*** 0.17 mm coverglass correction*

HEADS

EAX-5302 Siedentopf binocular head with 30 degrees inclined tubes
EAX-5313 Siedentopf trinocular head 100:0/0:100 with 30 degrees inclined tubes
EAX-5700-ADD Ergonomical Siedentopf trinocular head with tilting tubes and with 23.2 mm photo tube. ADD-ON option. Only with the purchase of new microscopes Add the EAX-5700-ADD price to a Achios-X Observer model in order to have the prices of a configuration with ergo titilng head and order the microscope as EAX-1158-xxxx / EAX-3158-xxxx

CONDENSERS

EAX-9100 Standard Abbe Condenser
EAX-9105-ADD Swing-out Abbe Condenser Add-on option. Only with new microscopes
EAX-9105 Swing-out Abbe Condenser

PHOTO ADAPTERS FOR MODELS AX.xxx3

EAX-9850 C-mount adapter 0.5x (standard included)
EAX-9810-ADD C-mount adapter 1x

PHOTO ADAPTERS FOR MODELS AX.xxx8

EDX-9810 C-mount with 1x magnification for C-mount camera
EDX-9835 C-mount with high resolution relay 0.35x objective for 1/3 inch C-mount camera
EDX-9850 C-mount with high resolution relay 0.50x objective for 1/2 inch C-mount camera
EDX-9863 C-mount with high resolution relay 0.63x objective for 2/3 inch C-mount camera
EAE-5130 Universal SLR adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter
EAE-5025 T2 adapter for Nikon D SLR digital camera
EAE-5040 T2 adapter for Canon EOS SLR digital camera

MISCELLANEOUS

EAX-9896-ADD
Nosepiece with 6 objectives ADD-ON option for Achios-X Observer. Only available with the purchase of a new microscope
EDX-9501-R-ADD
Mechanical stage with Gorilla glass, right-handed ADD-ON option. Only available with the purchase of a new microscope
EAX-9660 Simple polarization kit

● *EAX-5313*

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