

Oxion fluorescence

HIGHLIGHTS

- Binocular and trinocular models
- HWF 10x/22 mm eyepieces
- Reversed nosepiece for maximum five objectives
- Plan, plan Fluarex and plan semi apochromatic Fluarex IOS objectives
- Integrated mechanical stage
- Coaxial coarse and fine adjustments
- Height adjustable Abbe N.A. 1.25 condenser with iris diaphragm and filter holder
- 3 W LED transmitted illumination
- Fluorescence attachment for maximum four filter blocks and with 100 W mercury vapor incident illumination
- Fluorescence attachment with single filter block and 455 nm (Blue), 560 nm (Green) or 365 nm (UV) incident illumination
- Ergonomic stand and head
- 10 years warranty



OX.3085 ●

TECHNICAL SPECIFICATIONS

EYEPIECES

- HWF 10x/22 mm eyepieces
- All eyepieces can be secured by an Allen screw

HEADS

- Binocular and trinocular Siedentopf type heads are with 30° inclined tubes
- Interpupillary distance from 50 to 75 mm.
- Two ± 5 diopter adjustments
- A unique rotating system allows the ergonomic positioning of both tubes in a high (431 mm) and in a low position (397 mm)

NOSEPIECE

- Revolving and reversed nosepiece for maximum five objectives
- The fluorescence models with mercury vapor lamp are equipped with an orange UV protection shield

OBJECTIVES

- Plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan Fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.30 oil immersion IOS objectives
- Plan semi apochromatic Fluarex 4x/0.13, 10x/0.30, S40x/0.75 and S100x/1.28 oil immersion IOS objectives

All S40x, S60x and S100x oil immersion objectives are spring loaded
All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

OX.3085	454 (h) x 276 (w) x 578 mm (d) 12.2 kg
OX.3230	454 (h) x 185 (w) x 294 mm (d) 8.7 kg

FOCUSING

- Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel approximately 28 mm
- Supplied with an adjustable rack stop to prevent damage to sample and objectives
- The coarse adjustments are equipped with friction control

STAGE

- 150 x 140 mm stage with integrated X-Y mechanical stage
A ceramic stage is also available on request

CONDENSER FOR BRIGHTFIELD

- Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm
- Supplied with a white diffusion filter
- Phase contrast rings mounted in slider can be inserted in the condenser for 10x and S40x or 20x and S100x phase contrast objectives
- A darkfield stop in slider for the 10x, 20x and S40x objectives can also be inserted with magnification indication

CONDENSER FOR FLUORESCENCE

The fluorescence attachment is equipped with an integrated condenser with iris diaphragm and with a field diaphragm

ILLUMINATION FOR BRIGHTFIELD AND PHASE CONTRAST

- All models are supplied with a 3 W adjustable NeoLED™ illumination with built-in 100-240 V power supply
- Köhler illumination with field diaphragm

ILLUMINATION FOR FLUORESCENCE (HBO)

- Fluorescence attachment with 100 W (HBO) mercury vapor incident epillumination and rail for maximum four filter blocks
- Two general purpose filter sets are standard supplied with the attachment: AE.3245 (Blue excitation) and AE.3246 (Green excitation)
- Two other general purpose filter sets AE.3246 (UV excitation) and AE.3247 (violet excitation) are also available (More specific filter sets are available on request)

ILLUMINATION FOR FLUORESCENCE (LED)

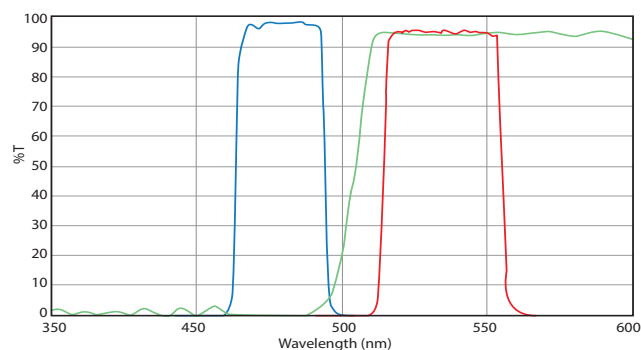
The FluoLED attachment is standard delivered with a **455 nm LED** (EX 425-475, DM 480, EM 485 LP filter set) for detection of tuberculosis with Auramine-O fluorochrome. FluoLED attachments with **365 nm LED** (EX 340-390, DM 400, EM 420 LP filter set, DAPI), **470 nm LED** (EX 450-490, DM 495, EM 500-525 filter set, FITC/GFP/eGFP) and **560 nm LED** (EX 540-580, DM 585, EM 608-690 filter set, TexasRed) are also available

PACKAGE CONTENT

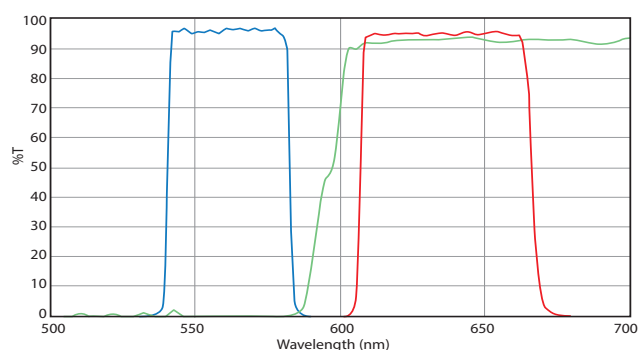
- Supplied with power cord, dust cover, white filter, user manual and 5 ml immersion oil for models with S100x objective
- All packed in a polystyrene box

STANDARD GENERAL PURPOSE FLUORESCENCE FILTER SETS

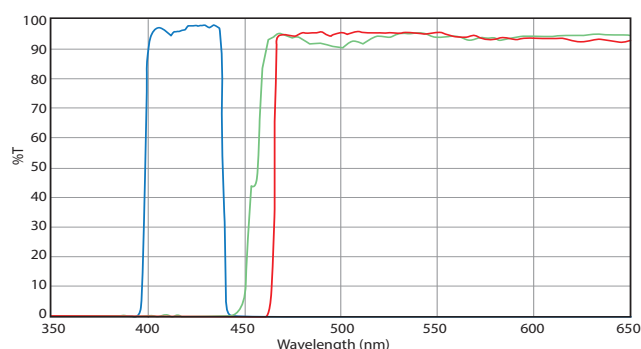
● AE.3245 (Blue EX 465-495 nm DM 505 nm EM 515-558 nm)



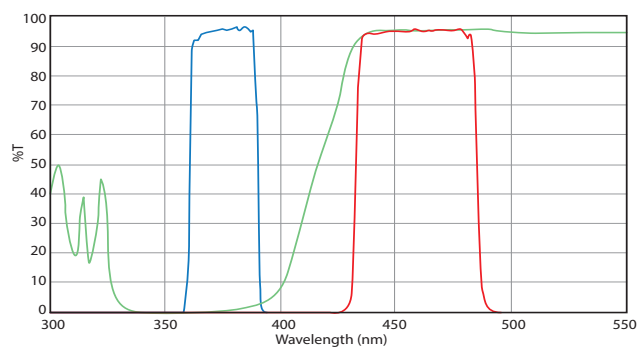
● AE.3246 (Green EX 540-580 nm DM 600 nm EM 605-665 nm)



● AE.3247 (Violet EX 410-440 nm DM 455 nm EM 465 nm LP)



● AE.3248 (UV EX 361-389 nm DM 415 nm EM 435-485 nm)



OX.3230 ●

MODELS	Bino	Trino	Plan 4x/10x/S40x/ S100x objectives	Plan Fluarex 4x/10x/S40x/ S100x objectives	Plan semi apo Fluarex 4x/10x/S40x/objectives	Plan semi apo fluarex S100x objectives	100 W mercury vapor illumination	455 nm FluoLED illumination
OX.3067		•		•			•	
OX.3070	•				•		•	
OX.3075		•			•		•	
OX.3080	•				•	•	•	
OX.3085		•			•	•	•	
OX.3230	•		•					•
OX.3235		•	•					•
OX.3232	•				•	•		•
OX.3237		•			•	•		•

ACCESSORIES AND SPARE PARTS

EYEPIECES

- AE.3210** HWF 10x/22 mm eyepiece
- AE.3215** HWF 15x/13 mm eyepiece
- AE.3223** HWF 10x/22 mm eyepiece with
10 mm/100 micrometer
- AE.3225** Pair of eyecups

OBJECTIVES

- AE.3102** Plan 2x/0.06 IOS objective. WD 5 mm
- AE.3104** Plan 4x/0.10 IOS objective. WD 11.9 mm
- AE.3106** Plan 10x/0.25 IOS objective. WD 12.1 mm
- AE.3108** Plan 20x/0.40 IOS objective. WD 1.5 mm
- AE.3110** Plan S40x/0.65 IOS objective. WD 0.36 mm
- AE.3112** Plan S60x/0.85 IOS objective. WD 0.30 mm
- AE.3114** Plan S100x/1.25 oil IOS objective. WD 0.18 mm
- 86.550** Plan Fluarex 4x /0.15 IOS objective. WD 21.6 mm
- 86.552** Plan Fluarex 10x/0.35 IOS objective. WD 2.9 mm
- 86.554** Plan Fluarex 20x/0.60 IOS objective. WD 1.5 mm
- 86.556** Plan Fluarex S40x/0.75 infinity corrected IOS objective.
WD 0.6 mm
- IS.7400** Plan Fluarex PLFi S100x/1,30 IOS infinity corrected objective.
0.17 mm cover glass correction. WD 0.13 mm
- AE.3144** Plan semi apochromatic Fluarex 4x/0.13
IOS objective. WD 18.5 mm
- AE.3146** Plan semi apochromatic Fluarex 10x/0.30
IOS objective. WD 10.6 mm
- AE.3148** Plan semi apochromatic Fluarex 20x/0.50
IOS objective. WD 2.33 mm
- AE.3152** Plan semi apochromatic Fluarex S40x/0.75
IOS objective. WD 0.6 mm
- AE.3156** Plan semi apochromatic Fluarex S100x/1.28 oil
immersion IOS objective. WD 0.21 mm

FLUORESCENCE FILTER SETS

- AE.3245** Fluorescence block with general purpose filter set for blue
excitation (EX 465-495 nm DM 505 nm EM 515-558 nm). Excellent
for FITC, eGFP. Compatible for 5-carboxyfluorescein (5-FAM), Alexa
fluor 488, BODIP-FL, Calcein, Cy2, eGFP, FITC, Fluo-4, Fluor-Jade,
FluorX, Mito tracker Green, Rhodamine 110, Spectrumgreen 110
- AE.3246** Fluorescence block with general purpose filter set for green
excitation (EX 540-580 nm DM 600 nm EM 605-665 nm). Excellent
for Texas Red, Alexa 594, 5-Carboxynaphthofluorescein.
Other compatible fluorophores: 5-CNF, 5-ROX (carboxy-X-
rhodamine),Alexa Fluor 568, Alexa Fluor 594, Cy3.5, Lissamine
rhodamine B, Mito Tracker Red, mPlum mRaspberry, Rhodamine
Red, SpectrumRed, Texas Red, X-Rhodamine (XRITC)
- AE.3247** Fluorescence block with general purpose filter set for violet
excitation (EX 410-440 nm DM 455 nm EM 465 nm LP).
Compatible fluorophores: Cerulean, CFP, SpectrumAqua
- AE.3248** Fluorescence block with general purpose filter set for UV
excitation (UV EX 361-389 nm DM 415 nm EM 435-485 nm).
Compatible fluorophores: 7-amino-4methylcoumarin, 7-Hydroxy-
4-methylcoumarin (pH9), Alexa Fluor 350, AMCA, AMCA-X,
Calcein Blue, Calcein White, Cascade Blue, DAPI, Hoechst 33342
& 33258, LysoSensor Blue (pH5), Lyso Tracker Red, marina Blue,
Spectrum Blue
- AE.3249** Empty filter cube for models
OX.3066/OX.3067/OX.3070/3075/3080/3085

POLARIZATION ATTACHMENTS

- AE.3190** Polarizer/analyzer set
AE.3192 Polarizer slider for nosepiece
AE.3194 Polarizer for lamphouse

FILTERS

- AE.3196** Frosted white filter 45 mm, to be mounted on lamphouse
AE.3198 Blue filter 45 mm, to be mounted on lamphouse
AE.3200 Yellow filter 45 mm, to be mounted on lamphouse
AE.3202 Green filter 45 mm, to be mounted on lamphouse

CAMERA ACCESSORIES

- AE.5120-2** Standard 23.2 mm diameter tube for Oxion photo port revision-2
AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter and AE.5120
AE.5025 T2 adapter for Nikon D digital SLR cameras
AE.5040 T2 adapter for Canon EOS digital SLR cameras
OX.9850 CS/C mount with 0.5x objective for 1/2" sensor cameras
OX.9833 CS/C mount with 0.33x objective for 1/3" sensor cameras

MISCELLANEOUS

- AE.5168-O** Heating stage and temperature controller up to 50°C. Only with new microscopes
SL.1385 100 W HBO mercury vapor lamp for fluorescence
SL.5510 NeoLED™ replacement unit for Oxion
AE.3199 Glass fuses 3.15 A 250 V, 10 pieces

DISPOSABLES

- PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pcs
PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pcs
PB.5245 Lens cleaning paper, 100 sheets per pack
PB.5255 Immersion oil, n = 1.482 (25 ml)
PB.5274 Isopropyl alcohol 99% (200 ml)
PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs