**OXION FLUORESCENCE** | LABORATORIES | LIFE SCIENCE MICROSCOPES

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**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

**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 ergonomical 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

**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 epi-illumination 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 435-485 nm)
- **AE.3248** (UV EX 361-389 nm DM 415 nm EM 435-485 nm)
ACCESSORIES AND SPARE PARTS

**EYEPICES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Description</th>
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<tbody>
<tr>
<td>AE.3210</td>
<td>HWF 10x/22 mm eyepiece</td>
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<tr>
<td>AE.3215</td>
<td>HWF 15x/13 mm eyepiece</td>
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<tr>
<td>AE.3223</td>
<td>HWF 10x/22 mm eyepiece with 10 mm/100 micrometer</td>
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<td>AE.3225</td>
<td>Pair of eyecups</td>
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**OBJECTIVES**

<table>
<thead>
<tr>
<th>MODEL</th>
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<tr>
<td>AE.3102</td>
<td>Plan 2x/0.06 IOS objective. WD 3 mm</td>
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<tr>
<td>AE.3104</td>
<td>Plan 4x/0.10 IOS objective. WD 11.9 mm</td>
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<tr>
<td>AE.3106</td>
<td>Plan 10x/0.25 IOS objective. WD 12.1 mm</td>
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<tr>
<td>AE.3108</td>
<td>Plan 20x/0.40 IOS objective. WD 1.5 mm</td>
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<tr>
<td>AE.3110</td>
<td>Plan 50x/0.65 IOS objective. WD 0.36 mm</td>
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<tr>
<td>AE.3112</td>
<td>Plan 60x/0.85 IOS objective. WD 0.30 mm</td>
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<tr>
<td>AE.3114</td>
<td>Plan 100x/1.25 oil IOS objective. WD 0.18 mm</td>
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<tr>
<td>86.550</td>
<td>Plan Fluorex 4x/0.15 IOS objective. WD 21.6 mm</td>
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<tr>
<td>86.552</td>
<td>Plan Fluorex 10x/0.35 IOS objective. WD 2.9 mm</td>
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<tr>
<td>86.554</td>
<td>Plan Fluorex 20x/0.60 IOS objective. WD 1.5 mm</td>
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<tr>
<td>86.556</td>
<td>Plan Fluorex 50x/0.05 infinity corrected IOS objective. WD 0.6 mm</td>
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<tr>
<td>IS.7400</td>
<td>Plan Fluorex PLFi S100x/1.30 IOS infinity corrected objective. 0.17 mm cover glass correction. WD 0.13 mm</td>
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<tr>
<td>AE.3144</td>
<td>Plan semi apochromatic Fluorex 4x/0.13 IOS objective. WD 18.5 mm</td>
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<tr>
<td>AE.3146</td>
<td>Plan semi apochromatic Fluorex 10x/0.30 IOS objective. WD 10.6 mm</td>
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<tr>
<td>AE.3148</td>
<td>Plan semi apochromatic Fluorex 20x/0.50 IOS objective. WD 2.33 mm</td>
</tr>
<tr>
<td>AE.3152</td>
<td>Plan semi apochromatic Fluorex 50x/0.75 IOS objective. WD 0.6 mm</td>
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<tr>
<td>AE.3156</td>
<td>Plan semi apochromatic Fluorex S100x/1.28 oil immersion IOS objective. WD 0.21 mm</td>
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**FLUORESCENCE FILTER SETS**

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<tr>
<td>AE.3245</td>
<td>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 (S-FAM), Alexa fluor 488, BODIP-FL, Calcein, Cy2, eGFP, FITC, Fluo-4, Fluor-Jade, FluorX, Mito tracker Green, Rhodamine 110, Spectrumgreen 110</td>
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<tr>
<td>AE.3247</td>
<td>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</td>
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<tr>
<td>AE.3249</td>
<td>Empty filter cube for models OX.3066/OX.3067/OX.3070/3075/3080/3085</td>
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**PRODUCT DATASHEET**

**OXION FLUORESCENCE**

**POLARIZATION ATTACHMENTS**
- **AE.3190** Polarizer/analyser 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

**POLARIZATION ATTACHMENTS**

**FILTERS**

**CAMERA ACCESSORIES**

**MISCELLANEOUS**

**DISPOSABLES**

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All information may be changed without prior notice