

Oxion for life science

HIGHLIGHTS

- HWF 10x/22 mm eyepieces
- Binocular, trinocular and multihead systems
- Optional tilting head
- Reversed nosepiece for 5 objectives
- Semi plan, plan semi apo, plan and plan phase contrast IOS objectives
- Dedicated model for darkfield up to 1000x magnification
- 150 x 140 mm stage
- Optional ceramic stage
- 3 W LED illumination
- Ergonomic stand and head
- 10 years warranty

TECHNICAL SPECIFICATIONS

EYEPIECES

- HWF 10X/22 mm eyepieces with $\pm 5^\circ$ diopter adjustments on both eyepieces
- The multihead systems OX.56xx are supplied with WF10x/20 mm eyepieces and a joystick for the positioning of a laser pointer in the field of view of the eyepieces
- All eyepieces can be secured with an Allen screw

HEAD

- Binocular and trinocular Siedentopf type heads with 30° inclined tubes
- Interpupillary distance from 50 to 75 mm
- A unique rotating system allows an ergonomic positioning of both tubes in an upper (431 mm) and in a lower position (397 mm)
- The multihead systems are available with 2, 3 or 5 heads
- Ergonomic tilting head available

MULTIHEAD SYSTEM

- The Oxion can be extended with a unique multihead system for in total two, three or five heads that allow simultaneous observation of specimens
- The main unit is equipped with a joystick to move a green and red laser pointer across the entire field of view of all heads
- Plan 4x, 10x, S40 and S100x oil immersion infinity corrected IOS objectives
- Each additional unit has a binocular head and is equipped with high wide field plan HWF 10x/20 mm eyepieces (reference models OX.5602, OX.5603 and OX.5605)

NOSEPIECE

Reversed nosepiece for a maximum of five objectives on ball bearings



OX.3035 ●

OBJECTIVES – IOS INFINITY CORRECTED SYSTEM

- Semi plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives standard, optional 20x/0.40 and S60x/0.85 objectives
- Plan phase contrast 10x/0.25, 20x/0.40, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan semi apochromatic Fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives standard, optional 20x/0.50 objectives

As an option available: plan 20x/0.40 infinity corrected IOS objective and plan S60x/0.85 infinity corrected IOS objective

All S40x, S60x and S100x oil immersion objectives are spring loaded

All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

STAGE

- 150 x 140 mm stage with integrated X-Y mechanical stage
- A ceramic stage is also available on request
- The Oxion can be supplied with a heating stage with PID temperature controller which can be set up to 50° Celsius (Only available for new microscopes)



Ergohead - OX.9504 ●

CONDENSER FOR BRIGHTFIELD

- Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm
- Phase contrast sliders can be inserted in the condenser for 10x and S40x or 20x and S100x phase contrast objectives (optional)
- A darkfield stop in slider can be inserted in the condenser for darkfield contrast up to 400x magnification (optional)

CONDENSERS FOR ZERNIKE PHASE CONTRAST

Two optional height adjustable Zernike NA. 1.25 phase contrast disc condensers are available:

- with plan phase 10/20/S40x and S100x oil immersion objectives
- with plan phase 10/S40x/S100x oil immersion objectives and darkfield position for darkfield contrast up to 400x magnification



● AE.3184 Zernike condenser with phase objectives

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

CARDIOID MIRROR CONDENSER FOR DARKFIELD

- The OX.3064 model is supplied with a condenser with cardioid mirrors, a 5 W integrated NeoLED™ illumination and a S100x objective with built-in iris diaphragm for real 1,000x darkfield observations
- By using AE.3612-O and 86.521 an existing brightfield microscope can be upgraded to darkfield

ILLUMINATION FOR BRIGHTFIELD AND PHASE CONTRAST

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

ILLUMINATION FOR DARKFIELD

5 W NeoLED™ adjustable illumination (for model OX.3064)



PACKAGE CONTENT

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



OX.3035 with optional ceramic stage ●



OX.3035 ●

MODELS

	Bino	Trino	Semi plan 4x/10x/S40x/S100x oil IOS objectives	Plan 4x/10x/S40 IOS objectives	Plan S100x oil objective	Plan semi apo Fluarex 4x/10x/S40x objectives	Plan semi apo S100x oil IOS objective	Plan phase 10x/20x/S40x/S100x oil IOS objectives	Plan phase 10x/S40x/S100x oil IOS objectives and darkfield stop
OX.3012	•		•						
OX.3025		•	•						
OX.3020	•			•					
OX.3025		•		•					
OX.3030	•			•	•				
OX.3035		•		•	•				
OX.3040	•							• ⁽¹⁾	
OX.3045		•						• ⁽¹⁾	
OX.3042	•								• ⁽²⁾
OX.3047		•							• ⁽²⁾
OX.3050	•					•			
OX.3055		•				•			
OX.3060	•					•	•		
OX.3065		•				•	•		
OX.3064	•			•	• ⁽³⁾				
OX.5602		• ⁽⁴⁾		•	•				
OX.5603		• ⁽⁵⁾		•	•				
OX.5605		• ⁽⁶⁾		•	•				

(1) Plan phase objectives supplied with AE.3184 Zernike condenser with four phase contrast rings (see picture on p. 2)

(2) Plan phase objectives supplied with AE.3183 Zernike condenser with three phase contrast rings and one stop for dark field

(3) Supplied with cardioid mirror dark field oil immersion condenser and S100x objective with built-in iris diaphragm

(4) Multihead system, supplied with a trinocular and one binocular head

(5) Multihead system, supplied with a trinocular and two binocular heads

(6) Multihead system, supplied with a trinocular and four binocular heads



● Oxion Multihead - OX.5603

ACCESSORIES AND SPARE PARTS

- AE.3210** HWF10x/22mm eyepiece
AE.3215 HWF15x/13mm eyepiece
AE.3223 HWF10x/22mm eyepiece with 10mm/100 micrometer
AE.3225 Pair of eyecups
- AE.3160** Semi plan 4x/0.10 infinity corrected IOS objective. WD 15 mm
AE.3162 Semi plan 10x/0.25 infinity corrected IOS objective. WD 15 mm
AE.3166 Semi plan S40x/0.65 infinity corrected IOS objective. WD 0.42 mm
AE.3270 Semi plan S100x/1.25 oil immersion infinity corrected IOS objective. WD 0.19 mm
- AE.3102** Plan 2x/0.06 infinity corrected IOS objective. WD 4.1 mm
AE.3104 Plan 4x/0.10 infinity corrected IOS objective. WD 11.9 mm
AE.3106 Plan 10x/0.25 infinity corrected IOS objective. WD 12.1 mm
AE.3108 Plan 20x/0.40 infinity corrected IOS objective. WD 1.5 mm
AE.3110 Plan S40x/0.65 infinity corrected IOS objective. WD 0.36 mm
AE.3112 Plan S60x/0.85 infinity corrected IOS objective. WD 0.30 mm
AE.3114 Plan S100x/1.25 oil immersion infinity corrected IOS objective. WD 0.18 mm
86.521 Plan S100x/1.25 oil immersion infinity corrected IOS objective with built-in iris diaphragm
- AE.3144** Plan semi apochromatic Fluarex 4x/0.13 infinity corrected IOS objective. WD 18.5 mm
AE.3146 Plan semi apochromatic Fluarex 10x/0.30 infinity corrected IOS objective. WD 10.6 mm
AE.3148 Plan semi apochromatic Fluarex 20x/0.50 infinity corrected IOS objective. WD 2.33 mm
AE.3152 Plan semi apochromatic Fluarex S40x/0.75 infinity corrected IOS objective. WD 0.6 mm
AE.3156 Plan semi apochromatic Fluarex S100x/1.28 oil immersion infinity corrected IOS objective. WD 0.21 mm
- AE.3126** Plan phase 10x/0.25 infinity corrected IOS objective. WD 12.1 mm
AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. WD 1.5 mm
AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective. WD 0.36 mm
AE.3134 Plan phase S100x/1.25 oil immersion infinity corrected IOS objective. WD 0.18 mm
- AE.3180** Telescope for alignment of phase contrast rings
AE.3183 Phase contrast Zernike condenser with 3 phase rings and one darkfield stop and plan phase PLPH 10x, S40x, S100x oil objectives
AE.3184 Phase contrast Zernike condenser with 4 phase rings and plan phase PLPH 10x, 20x, S40x, S100x oil objectives
AE.3185 Slider with dark field stop (only for objectives 10x, 20x and S40x)
AE.3186 Slider phase contrast kit with plan phase 10x/20x/40x/S100x oil objectives and 2 sliders with phase contrast rings for PLPH 10x/S40x and 20x/S100x objectives
AE.3187 Slider with phase rings for 10x and S40x plan phase contrast objectives
- AE.3189** Slider with phase rings for 20x and S100x oil plan phase contrast objectives
AE.3190 Polarizer/Analyzer set
AE.3192 Polarizer slider for nosepiece
AE.3194 Polarizer for lamp house
- AE.3196** Frosted filter 45 mm, sits on lamp house
AE.3198 Blue filter 45 mm, sits on lamp house
AE.3200 Yellow filter 45 mm, sits on lamp house
AE.3202 Green filter 45 mm, sits on lamp house
- OX.5120** Standard 23.2 mm diameter tube (for Oxion photo port)
AE.5130 Universal SLR camera adapter for 23.2 mm tubus with built-in 2x magnification lens. Needs T2 adapter and OX.5120
AE.5025 T2 adapter for Nikon D digital SLR cameras
AE.5040 T2 adapter for Canon EOS digital SLR cameras
- OX.9503** Large ceramic stage for Oxion
OX.9504 Ergonomical head for Oxion
- OX.9810** CS/C mount with 1.0x objective
OX.9833 C-mount adapter with 0.33x objective for Oxion microscopes and 1/3" cameras
OX.9850 C-mount adapter with 0.5x objective for Oxion and Oxion Inverso microscopes and 1/2" cameras
- AE.5168-O** Heating stage and temperature controller up to 50°C. Only supplied with new purchased microscopes
AE.3612-O Cardioid dark field condenser with integrated 5 W LED light source and external 100-240 V mains adapter
SL.5511 LED replacement for Oxion
- AE.3199** Glass fuses 3.15 A 250 V, 10 pieces
- OX.3010** Aluminum transport case with flight case locks
OX.3011 Aluminum transport case with classical locks
- PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces
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 pieces
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