

Oxion for life science

HIGHLIGHTS

- HWF 10x/22 mm eyepieces
- Binocular, trinocular and multihead systems
- Optional tilting head
- Reversed nosepiece for maximum 5 objectives
- Semi plan, plan and plan phase contrast IOS objectives
- 150 x 140 mm stage
- Optional ceramic stage
- Abbe condenser and Zernike condenser for phase contrast
- 3 W LED illumination for brightfield and phase contrast
- 5 W LED illumination for dark field applications
- Ergonomical stand and head
- 10 years warranty



OX.3035

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

- 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 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

MULTIHEADS SYSTEM

- The Oxion can be extended with a unique multihead system for in total 2, 3 or 5 heads that allow simultaneous observation of specimens
 - The central attachment is equipped with a joystick to move a green and red laser pointer across the entire field of views of all heads
 - Configurations with one, two or four viewing binocular heads, 30° inclined tubes and plan 4x, 10x, S40, S100x oil immersion infinity corrected IOS objectives
 - Each extra viewing binocular head 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 5 objectives on ball bearings

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
- Plan phase contrast 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan semi apochromatic fluorex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- 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 which can be set up to 50° Celsius by a PID temperature controller (Only available for new microscopes)
- Higher temperatures can be achieved on special request

CONDENSER FOR BRIGHTFIELD

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

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 dark field position for dark field contrast up to 400x magnification

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 DARK FIELD

- 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 dark field observations
- By using AE.3612-O and 86.521 an existing brightfield microscope can be upgraded to dark field

ILLUMINATION FOR DARK FIELD

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



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

PACKAGING

- 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

MODELS



OX.3035

With ceramic stage - OX.3035

With multihead system - OX.3034

MODELS

	Bino	Trino	Semi plan 4x/10x/S40x/S100x IOS objectives	Plan 4x/10x/S40x IOS objectives	Plan S100x IOS objective	Plan semi apo 4x/10x/S40x/S100x objectives	Plan semi apo S100x IOS objectives	Plan phase 10x/20x/S40x/S100x IOS objectives	Plan phase 10x/S40x/S100x IOS objectives
OX.3012	•		•						
OX.3015		•	•						
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 condenser with 4 phase contrast rings

(2) Plan phase objectives supplied with AE.3183 condenser with 3 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



ACCESSORIES AND SPARE PARTS

- IAE.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.
Working distance 15 mm
- AE.3162** Semi plan 10x/0.25 infinity corrected IOS objective.
Working distance 15 mm
- AE.3166** Semi plan S40x/0.65 infinity corrected IOS objective.
Working distance 0.42 mm
- AE.3270** Semi plan S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.19 mm
- AE.3102** Plan 2x/0.06 infinity corrected IOS objective.
Working distance 4.1 mm
- AE.3104** Plan 4x/0.10 infinity corrected IOS objective.
Working distance 11.9 mm
- AE.3106** Plan 10x/0.25 infinity corrected IOS objective.
Working distance 12.1 mm
- AE.3108** Plan 20x/0.40 infinity corrected IOS objective.
Working distance 1.5 mm
- AE.3110** Plan S40x/0.65 infinity corrected IOS objective.
Working distance 0.36 mm
- AE.3112** Plan S60x/0.85 infinity corrected IOS objective.
Working distance 0.30 mm
- AE.3114** Plan S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 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. Working distance 18.5 mm
- AE.3146** Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm
- AE.3148** Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm
- AE.3152** Plan semi apochromatic fluarex S40x/0.75 infinity corrected IOS objective. Working distance 0.6 mm
- AE.3156** Plan semi apochromatic fluarex S100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm
- AE.3126** Plan phase 10x/0.25 infinity corrected IOS objective.
Working distance 12.1 mm
- AE.3128** Plan phase 20x/0.45 infinity corrected IOS objective.
Working distance 1.5 mm
- AE.3130** Plan phase S40x/0.65 infinity corrected IOS objective.
Working distance 0.36 mm
- AE.3134** Plan phase S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm
- AE.3180** Telescope for alignment of phase contrast rings
- AE.3183** Phase contrast Zernike condenser with 3 phase rings and one dark field 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.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 100-240V mains adapter
- SL.5511** LED replacement for Oxion
- AE.3199** Glass fuses 3.15 A 250 V, 10 pieces
- OX.3010** Aluminium transport case with flight case locks
- OX.3011** Aluminium 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