

Oxion for materials science

HIGHLIGHTS

- Trinocular model
- HWF 10x/22 mm eyepieces
- Reversed quintuple nosepiece
- Plan M-IOS objectives
- Transmitted 3 W NeoLED™ illumination
- Reflected 3 W NeoLED™ illumination
- Polarization and analyzer filters
- 10 years warranty



OX.3245

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

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

HEAD

- Trinocular Siedentopf heads with 30° inclined tubes
- Interpupillary distance from 48 to 75 mm
- Diopter ± 5 diopter adjustment on both eyepieces
- A unique rotating system allows the ergonomic positioning of both tubes in an upper (431 mm) and in a lower position (397 mm)

NOSEPIECE

- Reversed nosepiece for a maximum of 5 objectives on ball bearings

OBJECTIVES (IOS-INFINITY CORRECTED SYSTEM)

- Standard configurations equipped with infinity corrected DIN long working distance LWD plan M-IOS 5x/0.14, 10x/0.25 and plan semi apochromatic LWD 50x/0.55 and 100x/0.80 objectives.
- Long working distance LWD plan 20x objective is available as option
- All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

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 mechanical 76 x 50 mm X-Y stage
- A ceramic stage is also available on request

CONDENSER (FOR TRANSMITTED ILLUMINATION)

- Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder

TRANSMITTED ILLUMINATION

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

REFLECTED EPI-ILLUMINATION

- Intensity adjustable 3 W NeoLED™ Köhler illumination with external 110-240 V power supply
- Push-pull type 90° rotatable polarizer and fixed analyzer
- Built-in condenser with field and aperture iris diaphragm
- Oblique lighting feature

PACKAGING

- Supplied with power cord, dust cover, a spare fuse and user manual
- All packed in a polystyrene box



Detail of reflected illumination

MODELS

	Trinocular	M-IOS 5x/10x/20x/50x objectives	M-IOS 100x objective	Transmitted illumination 3 W NeoLED™	Reflected illumination 3 W NeoLED™
OX.3240	•	•		•	•
OX.3245	•	•	•	•	•

ACCESSORIES AND SPARE PARTS

AE.3210 HWF10x/22mm eyepiece	(for reflected illumination unit)
AE.3215 HWF 15x/13mm eyepiece	AE.3206 Green interference 520-570 nm filter (for reflected illumination unit)
AE.3223 HWF10x/22mm eyepiece with 10mm/100 micrometer	AE.3207 Red interference 630-750 nm filter (for reflected illumination unit)
AE.3225 Pair of eyecups	AE.3208 White color balance interference filter (for reflected illumination unit)
AE.3172 Plan achromatic M-IOS DIN PL 5x/0.14 objective. Working distance 20.5 mm	AE.5120 Standard 23.2 mm diameter tube for Oxion photo port
AE.3173 Plan achromatic M-IOS DIN PL 10x/0.25 objective. Working distance 16 mm	AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter and AE.5120
AE.3175 Plan achromatic M-IOS DIN PL 20x/0.40 objective. Working distance 7.8 mm	AE.5025 T2 adapter for Nikon D digital SLR cameras
AE.3177 Plan semi-apochromatic M-IOS DIN 50x/0.55 objective. Working distance 7.9 mm	AE.5040 T2 adapter for Canon EOS digital SLR cameras
AE.3179 Plan semi-apochromatic M-IOS DIN 100x/0.80 objective. Working distance 2.1 mm	OX.9810 C-mount with 1.0x objective
AE.3185 Slider with dark field stop for transmitted illumination (only for objectives 10x, 20x and S40x)	OX.9833 C-mount with 0.33x objective for 1/3" sensors cameras
AE.3190 Polarizer/Analyzer set for transmitted illumination	OX.9850 C-mount with 0.5x objective for 1/2" sensors cameras
AE.3192 Polarizer slider for nosepiece	AE.3199 Glass fuses 3.15 A 250 V, 10 pieces
AE.3194 Polarizer for lamp house	PB.5245 Lens cleaning paper, 100 sheets
AE.3193 Analyzer for reflected illumination unit	PB.5274 Cleaning liquid, isopropanol alcohol 99% (200ml)
AE.3195 Polarizer, 360° rotatable (for reflected illumination unit)	PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower and cotton swabs
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	
AE.3205 Blue interference 480 nm filter	