

Oxion for materials science

HIGHLIGHTS

- Trinocular models
- 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

TECHNICAL SPECIFICATIONS

EYEPIECES

HWF 10x/22mm eyepieces. All eyepieces can be secured

HEAD

- Trinocular Siedentopf head with 30° inclined tubes. Interpupillary distance from 48 to 75 mm
- Diopter ± 5 diopter adjustment on both eyepieces
- A unique rotating system allows 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, 20x/0.40 and LWD plan semi apochromatic M-IOs 50x/0.55 and 100x/0.80 objectives

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 μ m per graduation, 200 μ m per rotation, total travel range is 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

- 180 x 145 mm stage with integrated mechanical 78 x 45 mm X-Y stage
- Is supplied with plain metal and plain glass inserts

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



● OX.3245

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 Vac / 5 Vdc power supply. Push-pull type 90° rotatable polarizer and fixed analyzer. Built-in condenser with field and aperture iris diaphragm. Oblique lighting feature.

Supplied with blue and green filter

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse and user manual.

All packed in a polystyrene box



● Detail of reflected illumination



● Plain metal stage

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** HWF 10x/22mm eyepiece
AE.3215 HWF 15x/13mm eyepiece
AE.3223 HWF 10x/22mm eyepiece with 10mm/100 micrometer
AE.3225 Pair of eyecups
- AE.3172** Plan achromatic M-IOS DIN PL 5x/0.15 objective. WD 10.8 mm
AE.3173 Plan achromatic M-IOS DIN PL 10x/0.25 objective. WD 10 mm
AE.3175 Plan achromatic M-IOS DIN PL 20x/0.40 objective. WD 4 mm
AE.3177 Plan semi apochromatic M-IOS DIN 50x/0.55 objective. WD 7.9 mm
AE.3179 Plan semi apochromatic M-IOS DIN 100x/0.80 objective. WD 2.1 mm
- AE.3185** Slider with darkfield stop for transmitted illumination (only for objectives 10x, 20x and S40x)
- AE.3190** Polarizer/Analyzer set for transmitted illumination
AE.3192 Polarizer slider for nosepiece
AE.3194 Polarizer for lamphouse
- AE.3193** Analyzer for reflected illumination unit
AE.3195 Polarizer, 360° rotatable (for reflected illumination unit)
- AE.3196** Frosted filter 45 mm, for lamphouse
AE.3198 Blue filter 45 mm, for lamphouse
AE.3200 Yellow filter 45 mm, for lamphouse
AE.3202 Green filter 45 mm, for lamphouse
AE.3205 Blue interference 480 nm filter (for reflected illumination unit)
AE.3206 Green interference 520-570 nm filter (for reflected illumination unit)
AE.3208 White color balance interference filter (for reflected illumination unit)
- OX.9515** Metal plain insert for mechanical stage
OX.9518 Glass plain insert for mechanical stage
AE.5120 Standard 23.2 mm diameter tube for Oxion photo port
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.9810** C-mount with 1.0x objective
OX.9833 C-mount with 0.33x objective for 1/3" sensors cameras
OX.9850 C-mount with 0.5x objective for 1/2" sensors cameras

- AE.3199** Glass fuses 3.15 A 250 V, 10 pieces
- PB.5245** Lens cleaning paper, 100 sheets
PB.5274 Cleaning liquid, isopropanol alcohol 99% (200ml)
PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower and cotton swabs



OX.3240 ●