

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 µm per graduation, 200 µm 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 ●