

Oxion for materials science

HIGHLIGHTS

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



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 ergonomical 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

Oxton

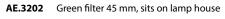
Detail of reflected illumination

MODELS

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



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