

iScope® metallurgical

HIGHLIGHTS

- EWF 10x/20 mm eyepieces
- Trinocular model
- Reversed quintuple revolving nosepiece
- Infinity corrected IOS objectives for material observation
- 150 x 140 mm rackless stage equipped with integrated 78 x 53 mm mechanical stage
- Epi-NeoLED illumination
- Diascopic 3 W NeoLED™ Köhler illumination
- iCare sensor for energy saving
- CSS - Cable Storage System
- 10 years warranty



● EIS- 1053-PLMi

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of extended EWF 10x/20 mm (Ø 30 mm tube) eyepieces

HEAD

- Trinocular Siedentopf type head with 30° inclined tubes
- Interpupillary distance from 48 to 76 mm
- Two ± 5 diopter adjustments
- A unique rotating system allows the ergonomic positioning of both tubes in a high (431 mm) and in a low position (397 mm)
- The trinocular head's 23,2mm photo tube fits all Euromex cameras and optional photo C-mount objectives.

NOSEPIECE

Revolving quintuple reversed nosepiece on ball bearings

OBJECTIVES

- Plan PLMi infinity corrected objectives for material observation
- All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

Plan PLMi IOS 5x/0.12 10x/0.25 20x/0.40 50x/0.70 S100x/0.80⁽¹⁾

⁽¹⁾ Optional objectives

STAGES

150 x 140 mm rackless stage equipped with double slide holder and integrated 78 x 53 mm mechanical stage. Supplied with a plain metal and plain glass inserts

STANDARD CONDENSERS

- Standard height adjustable Abbe N.A. 1.25 condenser with iris diaphragm
- Suitable for slider with darkfield stop for magnifications up to a maximum of 400x
- Optional height adjustable Abbe N.A. 0.9/1.25 swing-out condenser with iris diaphragm

EIS-1053-PLMi	585 (h) x 210 (w) x 480 mm (d) 10.5 kg
EIS-1053-PLPOLRi	590 (h) x 210 (w) x 475 mm (d) 12.3 kg

FOCUSING

- Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel approximately 24 mm and is supplied with an adjustable rack stop to prevent damage to sample and objectives.
- The coarse adjustment is equipped with friction control

REFLECTED ILLUMINATION

- Metallurgical models are equipped with a reflected NeoLED™ illumination and external 100-240 V power supply
- Supplied with a 0-90° polarization filter in slider, simple dark field stop, white, green, blue and yellow filters

TRANSMITTED ILLUMINATION

3 W adjustable NeoLED diascopic illumination with internal 100-240 V power supply for brightfield

ICARE SENSOR

- The unique iCare Sensor is developed to avoid unnecessary loss of energy
- The illumination of the microscope automatically switches off shortly after microscopists step away from their position

CSS-CABLE STORAGE SYSTEM

iScope® allows users to easily insert the power cable into the backside of the instrument, which enables easy storage

CARRYING GRIP

The integrated carrying grip at the back of the microscope ensure the safe transportation of the microscope

PACKAGE CONTENT

Supplied with power cord, dust cover, spare fuse where available and user manual. All packed in polystyrene boxes

MODEL	Trinocular	EWF 10x/20 mm	Plan PLMi 5x/10x/20x/550x IOS objectives ⁽¹⁾	Mechanical rackless stage	Abbe condenser	Köhler 3 W LED	Metallurgical attachment with NeoLED™ epi-illumination
EIS-1053-PLMi	•	•	•	•	•	•	•

⁽¹⁾ Objectives without cover glass correction

The reflected illumination attachment is supplied with a 0-90° polarizer mounted in a slider, a fixed analyzer in slider, a white, yellow and blue filter, all mounted in a slider. External 100-240 Vac/ 7.5 Dc power adapter

ACCESSORIES AND SPARE PARTS

- EIS-6310** EWF 10x/20 mm eyepiece, Ø 30 mm tube
 - EIS-6310-C** EWF 10x/20 mm eyepiece with crosshairs, Ø 30mm tube
 - EIS-6310-CM** EWF 10x/20 mm eyepiece with 10/100 micrometer and crosshairs, Ø 30mm tube
 - EIS-6299** Pair of eyecups for infinity corrected iScope® models

 - EIS-8105** Plan PLMi 5x/0.12 IOS objective*. WD 15.5 mm
 - EIS-8110** Plan PLMi 10x/0.25 IOS objective*. WD 10 mm
 - EIS-8120** Plan PLMi 20x/0.40 IOS objective*. WD 5.8 mm
 - EIS-8150** Plan PLMi S50x/0.70 IOS objective*. WD 0.32 mm
 - EIS-8100** Plan PLMi S100x/0.80 IOS objective*. WD 2 mm
- * Without 0.17 mm cover glass correction
- EIS-9230** Reflected NeoLED™ epi-illumination attachment with for materials science with 5x, 10x, 20x and S50x objectives. Supplied with a 0-90° polarizer mounted in a slider, a fixed analyzer in slider, a white, yellow and blue filter, all mounted in a slider. With external 100-240 Vac/ 7.5 Vdc power adapter
 - EIS-9102** Standard Abbe condenser 1.25 NA with slot for darkfield and phase contrast sliders
 - EIS-9105** Swing-out 0,9/1,25 condenser
 - EIS-9600** Polarization filter 45 mm for lamp house
 - EIS-9601** Polarization set for iScope: simple rotating polarizer for lamp house and fix polarizer mounted under head
 - EIS-9700** Blue filter 45 mm for lamphouse
 - EIS-9702** Green filter 45 mm for lamphouse
 - EIS-9704** Yellow filter 45 mm for lamphouse
 - EIS-9706** White opaque filter 45 mm for lamphouse
 - SL.5500** NeoLED™ replacement unit for iScope
 - EIS-9720** Blue filter 45 mm for metallurgical attachment of iScope**
 - EIS-9722** Green filter 45 mm for metallurgical attachment of iScope**
 - EIS-9724** Yellow filter 45 mm for metallurgical attachment of iScope**

 - EIS-9726** White filter 45 mm for metallurgical attachment of iScope**
 - EIS-9727** Simple darkfield for metallurgical attachment of iScope**
 - EIS-9728** Polarizer 0-90° for metallurgical attachment of iScope**
 - EIS-9975** External power supply**
- ** EIS-9230 metallurgical attachment of iScope
- EIS-9731** Slider with green and blue filters
 - EIS-9738** Slider with analyzer and blue filter for iScope
 - EIS-9515** Metal plain insert for mechanical stage
 - EIS-9518** Glass plain insert for mechanical stage
 - EIS-9800** Single photo tube attachment with one 23.2 mm tube for EIS-5700 ergonomic tilting head of iScope® infinity systems
 - EIS-9880** Köhler attachment
 - EIS-9993** NeoLED replacement unit for iScope
 - EIS-5700** Ergonomic tilting head 5 to 35°. Only iScope infinity systems

 - EAE-3684** Glass fuses 500 mA 250 V, 10 pieces
 - EAE-5130** Universal SLR-adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter
 - EAE-5025** T2 ring for Nikon D SLR-digital camera
 - EAE-5040** T2 ring for Canon EOS SLR-digital camera

 - EPB-5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces
 - EPB-5165** Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces
 - EPB-5168** Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces
 - EPB-5245** Lens cleaning paper, 100 sheets per pack
 - EPB-5255** Immersion oil, 25 ml. Refraction index n = 1.515
 - EPB-5274** Iso propyl alcohol 99%, 200 ml
 - EPB-5275** Cleaning kit: lens fluid, lint free lens tissue paper, brush, air blower, cotton swabs