iScope® metallurgical

iscope®

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**

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 ergonomical 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

● *IS. 1053-PLMi*

IS.1053-PLMi	585 (h) x 210 (w) x 480 mm (d) | 10.5 kg
IS.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

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CSS−CABLE STORAGE SYSTEM

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

PACKAGE CONTENT

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

CARRYING GRIP

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

MODEL	Trinocular	EWF 10x/20 mm	Plan PLMi 5x/10x/20x/S50x IOS objectives [1]	Mechanical rackless stage	Abbe condenser	Köhler 3 W LED	Metallurgical attachment with NeoLED™ epi-illumination
IS.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

IS.6310	EWF 10x/20 mm eyepiece, Ø 30 mm tube
IS.6310-C	EWF 10x/20 mm eyepiece with crosshairs, Ø 30mm tube
IS.6310-CM	EWF 10x/20 mm eyepiece with 10/100 micrometer and crosshairs, Ø 30mm tube
IS.6299	Pair of eyecups for infinity corrected iScope® models
IS.8105	Plan PLMi 5x/0.12 IOS objective*. WD 15.5 mm
IS.8110	Plan PLMi 10x/0.25 IOS objective*. WD 10 mm
IS.8120	Plan PLMi 20x/0.40 IOS objective*. WD 5.8 mm
IS.8150	Plan PLMi S50x/0.70 IOS objective*. WD 0.32 mm
IS.8100	Plan PLMi S100x/0.80 IOS objective*. WD 2 mm

Without 0.17 mm cover glass correction

IS.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
IS.9102	Standard Abbe condenser 1.25 NA with slot for darkfield and phase contrast sliders
IS.9105	Swing-out 0,9/1,25 condenser
IS.9600	Polarization filter 45 mm for lamp house
IS.9601	Polarization set for iScope: simple rotating polarizer for lamp house and fix polarizer mounted under head
IS.9700	Blue filter 45 mm for lamphouse
IS.9702	Green filter 45 mm for lamphouse
IS.9704	Yellow filter 45 mm for lamphouse
IS.9706	White opaque filter 45 mm for lamphouse
SL.5500	NeoLED™replacement unit for iScope
IS.9720	Blue filter 45 mm for metallurgical attachment of iScope**
IS.9722	Green filter 45 mm for metallurgical attachment of iScope**
IS.9724	Yellow filter 45 mm for metallurgical attachment of iScope**

IS.9726	White filter 45 mm for metallurgical attachment of iScope**
IS.9727	Simple darkfield for metallurgical attachment of iScope**
IS.9728	Polarizer 0-90° for metallurgical attachment of iScope**
IS.9975	External power supply**

*** IS.9230 metallurgical attachment of iScope*

IS.9731	Slider with green and blue filters
IS.9738	Slider with analyzer and blue filter for iScope
IS.9515	Metal plain insert for mechanical stage
IS.9518	Glass plain insert for mechanical stage
IS.9800	Single photo tube attachment with one 23.2 mm tube for IS.5700 ergonomic tilting head of iScope® infinity systems
IS.9880	Köhler attachment
IS.9993	NeoLED replacement unit for iScope
IS.5700	Ergonomic tilting head 5 to 35°. Only iScope infinity systems
AE.3684	Glass fuses 500 mA 250 V, 10 pieces
AE.5130	Universal SLR-adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter
AE.5025	T2 ring for Nikon D SLR-digital camera
AE.5040	T2 ring for Canon EOS SLR-digital camera
PB.5155	Microscope slides 76 x 26 mm, ground edges, 50 pieces
PB.5165	Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces
PB.5168	Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5255	Immersion oil, 25 ml. Refraction index n = 1.515
PB.5274	Iso propyl alcohol 99%, 200 ml
PB.5275	Cleaning kit: lens fluid, lint free lens tissue paper, brush, air blower, cotton swabs

| MATERIALS SCIENCE |

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