

## iScope® metallurgical

### HIGHLIGHTS

- EWF 10x/20 mm eyepieces
- Binocular and trinocular models
- 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



● IS. 1053-PLMi

## TECHNICAL SPECIFICATIONS

### EYEPIECES

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

### HEAD

- Binocular and trinocular Siedentopf type heads 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 heads' 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<sup>(1)</sup>

<sup>(1)</sup> 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	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

## 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

MODELS	Binocular	Trinocular	EWF 10x/20 mm	Plan PLMi 5x/10x/20x/ S50x IOS objectives <sup>(1)</sup>	Mechanical rackless stage	Abbe condenser	Köhler 3 W LED	Metallurgical attachment with NeoLED™ epi-illumination
IS.1052-PLMi	•		•	•	•	•	•	•
IS.1053-PLMi		•	•	•	•	•	•	•

<sup>(1)</sup> 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

<b>IS.6310</b>	EWF 10x/20 mm eyepiece, Ø 30 mm tube	<b>IS.9726</b>	White filter 45 mm for metallurgical attachment of iScope**
<b>IS.6310-C</b>	EWF 10x/20 mm eyepiece with crosshairs, Ø 30mm tube	<b>IS.9727</b>	Simple darkfield for metallurgical attachment of iScope**
<b>IS.6310-CM</b>	EWF 10x/20 mm eyepiece with 10/100 micrometer and crosshairs, Ø 30mm tube	<b>IS.9728</b>	Polarizer 0-90° for metallurgical attachment of iScope**
<b>IS.6299</b>	Pair of eyecups for infinity corrected iScope® models	<b>IS.9975</b>	External power supply**
		** IS.9230	metallurgical attachment of iScope
<b>IS.8105</b>	Plan PLMi 5x/0.12 IOS objective*. WD 15.5 mm	<b>IS.9731</b>	Slider with green and blue filters
<b>IS.8110</b>	Plan PLMi 10x/0.25 IOS objective*. WD 10 mm	<b>IS.9738</b>	Slider with analyzer and blue filter for iScope
<b>IS.8120</b>	Plan PLMi 20x/0.40 IOS objective*. WD 5.8 mm	<b>IS.9515</b>	Metal plain insert for mechanical stage
<b>IS.8150</b>	Plan PLMi S50x/0.70 IOS objective*. WD 0.32 mm	<b>IS.9518</b>	Glass plain insert for mechanical stage
<b>IS.8100</b>	Plan PLMi S100x/0.80 IOS objective*. WD 2 mm	<b>IS.9800</b>	Single photo tube attachment with one 23.2 mm tube for IS.5700 ergonomic tilting head of iScope® infinity systems
* Without 0.17 mm cover glass correction		<b>IS.9880</b>	Köhler attachment
<b>IS.9230</b>	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	<b>IS.9993</b>	NeoLED replacement unit for iScope
<b>IS.9102</b>	Standard Abbe condenser 1.25 NA with slot for darkfield and phase contrast sliders	<b>IS.5700</b>	Ergonomic tilting head 5 to 35°. Only iScope infinity systems
<b>IS.9105</b>	Swing-out 0,9/1,25 condenser	<b>AE.3684</b>	Glass fuses 500 mA 250 V, 10 pieces
<b>IS.9600</b>	Polarization filter 45 mm for lamp house	<b>AE.5130</b>	Universal SLR-adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter
<b>IS.9601</b>	Polarization set for iScope: simple rotating polarizer for lamp house and fix polarizer mounted under head	<b>AE.5025</b>	T2 ring for Nikon D SLR-digital camera
<b>IS.9700</b>	Blue filter 45 mm for lamphouse	<b>AE.5040</b>	T2 ring for Canon EOS SLR-digital camera
<b>IS.9702</b>	Green filter 45 mm for lamphouse	<b>PB.5155</b>	Microscope slides 76 x 26 mm, ground edges, 50 pieces
<b>IS.9704</b>	Yellow filter 45 mm for lamphouse	<b>PB.5165</b>	Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces
<b>IS.9706</b>	White opaque filter 45 mm for lamphouse	<b>PB.5168</b>	Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces
<b>SL.5500</b>	NeoLED™ replacement unit for iScope	<b>PB.5245</b>	Lens cleaning paper, 100 sheets per pack
<b>IS.9720</b>	Blue filter 45 mm for metallurgical attachment of iScope**	<b>PB.5255</b>	Immersion oil, 25 ml. Refraction index n = 1.482
<b>IS.9722</b>	Green filter 45 mm for metallurgical attachment of iScope**	<b>PB.5274</b>	Iso propyl alcohol 99%, 200 ml
<b>IS.9724</b>	Yellow filter 45 mm for metallurgical attachment of iScope**	<b>PB.5275</b>	Cleaning kit: lens fluid, lint free lens tissue paper, brush, air blower, cotton swabs