

## 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

### 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

### 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.6210</b> EWF 10x/22 mm eyepiece (Ø 30mm tube)	yellow and blue filter, all mounted in a slider. With external 100-240 Vac/ 7.5 Vdc power adapter
<b>IS.6210-C</b> EWF 10x/22 mm eyepiece with cross hair (Ø30 mm tube)	<b>IS.9720</b> Blue filter in slider
<b>IS.6210-P</b> EWF 10x/22 mm eyepiece with pointer (Ø30 mm tube)	<b>IS.9722</b> Green filter in slider
<b>IS.6210-CMEWF</b> 10x/22 mm eyepiece with 10/100 micrometer and cross hair (Ø30 mm tube)	<b>IS.9724</b> Yellow filter in slider
<b>IS.6212</b> WF 12.5x/17 mm eyepiece (Ø30 mm tube)	<b>IS.9726</b> White filter in slider
<b>IS.6215</b> WF 15x/16 mm eyepiece (Ø30 mm tube)	<b>IS.9727</b> Polarizer 0-90° in slider for materials science attachment (IS.9230)
<b>IS.6220</b> WF 20x/12 mm eyepiece (Ø30 mm tube)	<b>IS.9728</b> Analyzer 0-360° rotatable in slider for materials science attachment (IS.9230)
<b>IS.6299</b> Pair of eyecups for infinity corrected iScope® models	<b>IS.9731</b> Slider with green and blue filters
<b>IS.8105</b> Plan PLMi 4x/0.12 IOS objective without 0.17 mm cover glass correction. WD 15.5 mm	<b>IS.9515</b> Metal plain insert for mechanical stage
<b>IS.8110</b> Plan PLMi 10x/0.25 IOS objective without 0.17 mm cover glass correction. WD 10 mm	<b>IS.9518</b> Glass plain insert for mechanical stage
<b>IS.8120</b> Plan PLMi 20x/0.40 IOS objective without 0.17 mm cover glass correction. WD 5.8 mm	<b>AE.5130</b> Universal SLR adapter with built-in 2x lens without T2 ring. For standard 23.2 mm tube
<b>IS.8150</b> Plan PLMi S50x/0.70 IOS objective without 0.17 mm cover glass correction. WD 0.32 mm	<b>AE.5040</b> T2 ring for Canon EOS SLR digital camera
<b>IS.8100</b> Plan PLMi S100x/0.80 IOS objective without 0.17 mm cover glass correction. WD 2 mm	<b>AE.5025</b> T2 ring for Nikon D SLR digital camera
<b>IS.9700</b> Blue filter 45 mm for lamphouse	<b>IS.9522</b> Optional 30 x 40 mm X-Y mechanical stage for round polarization stage
<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, thickness 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, thickness 0.13 - 0.17 mm, 100 pieces
<b>SL.5503</b> 3 W NeoLED™ replacement unit	<b>PB.5245</b> Lens cleaning paper, 100 sheets per pack
<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,	<b>PB.5255</b> Immersion oil, n = 1.482 (25 ml)
	<b>PB.5274</b> Cleaning liquid, isopropanol alcohol 99% (200 ml)
	<b>PB.5275</b> Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower and cotton swabs