

# 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 stage, supplied with a plain metal and plain glass insert
- 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

- 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<sup>(1)</sup>

<sup>(1)</sup> Optional objectives

### STAGE

150 x 140 mm stage. Supplied with a plain metal and plain glass insert

### 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-PLPOLri

585 (h) x 210 (w) x 480 mm (d) | 10.5 kg

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 diascope 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 <sup>(1)</sup>	Mechanical rackless stage	Abbe condenser	Köhler 3 W LED	Metallurgical attachment with NeoLED™ epi-illumination
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

### EYEPIECES

- 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

### OBJECTIVES

**Plan PLMi, infinity corrected, 45 mm parfocal\***

- IS.8105** 5x/0.12 PLMi objective. WD 15.5 mm
- IS.8110** 10x/0.25 PLMi objective. WD 10 mm
- IS.8120** 20x/0.40 PLMi objective. WD 5.8 mm
- IS.8150** 550x/0.70 PLMi objective. WD 0.32 mm
- IS.8100** S100x/0.80 PLMi objective. WD 2 mm

\* Without 0.17 mm cover glass correction

### MISCELLANEOUS

- IS.5700** Ergonomic tilting head 5 to 35°. Only iScope infinity systems
- IS.9230** Reflected NeoLED™ epi-illumination attachment with for materials science with 5x, 10x, 20x and 550x 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
- 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.9230 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.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
- AE.3684** Glass fuses 500 mA 250 V, 10 pieces

### CAMERA ACCESSORIES

- 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

### DISPOSABLES

- 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