

iScope® metallurgical

HIGHLIGHTS

- EWF 10x/20 mm and EWF 10x/22 mm eyepieces
- Binocular and trinocular models
- Reversed quintuple revolving nosepiece
- Infinity corrected IOS objectives for material observation
- 216 x 150 mm rackless stage equipped with integrated 79 x 52 mm mechanical stage
- Diascopic 3 W NeoLED™ Köhler illumination
- Epi-NeoLED illumination for metallurgical models
- iCare sensor for energy saving
- CSS - Cable Storage System
- 10 years warranty



IS.1053-PLMi

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

- The metallurgical models are supplied with extended EWF 10x/20 mm (Ø 23.2 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 head 23.2 mm tube fits optional photo C-mount adapters with built-in 0.33x or 0.5x objective

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/0.10	10x/0.25	20x/0.40	S50x/0.65	S80x/0.90 ⁽¹⁾	S100x/0.80 ⁽¹⁾
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(1) Optional objectives

STAGES

- 216 x 150 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm mechanical stage

STANDARD CONDENSERS

- Standard height adjustable Abbe N.A. 1.25 condenser with iris diaphragm
- Suitable for slider with dark field stop for magnifications up to maximum 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
- The integrated carrying grip at the back of the microscope ensure the safe transportation of the microscope

PACKAGING

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

ACCESSORIES AND SPARE PARTS

AE.5130	Universal SLR adapter with built-in 2x lens without T2 ring. For standard 23.2 mm tube	IS.9600	Polarization filter for lamp house
AE.5040	T2 ring for Canon EOS SLR digital camera	IS.9700	Blue opaque filter for lamp house
AE.5025	T2 ring for Nikon D SLR digital camera	IS.9702	Green opaque filter for lamp house
IS.6099	Pair of eyecups for finity models	IS.9704	Yellow opaque filter for lamp house
IS.6299	Pair of eyecups for infinity models	IS.9710	White opaque filter for lamp house
IS.9102	Standard Abbe condenser 1.25 NA with slot for dark field and phase contrast sliders	SL.5500	NeoLED™ replacement unit for iScope
IS.9105	Swing-out 0.9/1.25 NA condenser	PB.5155	Microscope slides 76 x 26 mm, ground edges, 50 pieces
IS.9150	Cardioid dark field condenser with integrated 5 W LED light source and external 100-240 V mains adapter	PB.5165	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
86.521	Plan PL S100x/1.25 oil immersion objective with iris diaphragm	PB.5168	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
		PB.5245	Lens cleaning paper, 100 sheets per pack
		PB.5255	Immersion oil, n = 1.482 (25 ml)
		PB.5274	Isopropyl alcohol 99% (200 ml)
		PB.5275	Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs

SPECIFICATIONS

			IS.1052-PLMi	IS.1053-PLMi	Product number
Models	Binocular		•		
	Trinocular			•	
Eyepieces	EWF 10x / 20 mm, pair	Ø 23.2 mm	•	•	IS.6010
	EWF 15x / 16 mm, pair	Ø 23.2 mm	O	O	IS.6015
	EWF 20x / 12 mm, pair	Ø 23.2 mm	O	O	IS.6020
	WF 10x / 20 mm, 1 piece. With crosshair	Ø 23.2 mm	O	O	IS.6010-C
	WF 10x / 20 mm, 1 piece. With crosshair and micrometer retide	Ø 23.2 mm	O	O	IS.6010-CM
Diopter	Adjustment on both sides		•	•	
Nosepiece	Maximum objectives		5	5	
Objectives IOS	Plan PLMi ⁽¹⁾	5x / 0.12	•	•	IS.8105
	Plan PLMi ⁽¹⁾	10x / 0.25	•	•	IS.8110
	Plan PLMi ⁽¹⁾	20x / 0.40	•	•	IS.8120
	Plan PLMi ⁽¹⁾	S50x / 0.70	•	•	IS.8150
	Plan PLMi ⁽¹⁾	S80x / 0.90	O	O	IS.8180
	Plan PLMi ⁽¹⁾	S100x / 0.80	O	O	IS.8100
Stage	216 x 150 mm rackless stage with 79 x 52 mm X-Y mechanical stage		•	•	
Condensers	Standard Abbe condenser		•	•	IS.9102
	Swing-out 0.9/1.25 NA condenser		O	O	IS.9105
Diascopic illumination	3 W NeoLED™, Köhler		•	•	
	Filter White	Ø 45 mm	O	O	IS.9706
	Filter Green	Ø 45 mm	•	•	IS.9702
	Filter Blue	Ø 45 mm	•	•	IS.9700
	3 W NeoLED™ replacement unit		O	O	IS.9993
Metallurgical attachment with NeoLED™ epi-illumination with:					IS.9230
	Polarizer 0-90°	Ø 45 mm	•	•	IS.9601
	Simple dark field	Ø 45 mm	•	•	IS.9600
	Filter White	Ø 45 mm	•	•	IS.9726
	Filter Yellow	Ø 45 mm	•	•	IS.9724
	Filter Green	Ø 45 mm	•	•	IS.9722
	Filter Blue	Ø 45 mm	•	•	IS.9720
	External mains adapter	100-240 Vac / 7.5Vdc	•	•	IS.9975

(1) No cover glass correction