

# iScope® for asbestos research



## 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, polarization and asbestos research
- 216 x 150 mm rackless stage equipped with integrated 79 x 52 mm mechanical stage
- Diascopic 3 W NeoLED™ Köhler illumination
- iCare sensor for energy saving
- CSS - Cable Storage System
- 10 years warranty



IS.1053-PLAi

## TECHNICAL SPECIFICATIONS

### EYEPIECE(S)

- The metallurgical models are supplied with extended EWF 10x/20 mm (Ø 23.2 mm tube) eyepieces
- Polarization models are supplied with a pair of EWF 10x/22 mm (Ø 30 mm tube) eyepieces, one eyepiece with cross hair and one eyepiece with a cross hair and micrometer reticle
- Specific models for asbestos identification are supplied with HWF 12.5x/15 mm (Ø 30 mm tube) eyepieces and a Walton-Beckett reticle

### 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 PLi infinity corrected objectives for asbestos research microscopes except the S40x which is a plan phase contrast PLPHi infinity corrected objective
- All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

Plan PLi IOS	4x/0.10	10x/0.25	20x/0.40	PLPHi S40x/0.65	S60x/0.85	S100x/1.25 <sup>(1)</sup>
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(1) Optional objectives

### STAGES

- The iScope® rackless stage has no protruding parts, enables more smooth movements and is safer working

### CONDENSER

- Height adjustable Abbe 1.25 phase contrast condenser supplied with slider with 10/40 annuli, green filter and alignment telescope

### 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

## 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

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

## SPECIFICATIONS

			IS.1052-PLAi	IS.1053-PLAi	Product number
<b>Models</b>	Binocular		•		
	Trinocular			•	
<b>Eyepieces</b>	EWF 10x / 22 mm, pair	Ø 30 mm	O	O	<b>IS.6210</b>
	HWF 12.5x / 15 mm, 1 piece	Ø 30 mm	•	•	<b>IS.6212</b>
	HWF 12.5x / 15 mm, with Walton-Bracket, 1 piece	Ø 30 mm	•	•	<b>IS.6212-W</b>
<b>Diopter</b>	Adjustment on both sides		•	•	
<b>Nosepiece</b>	Maximum objectives		5	5	
<b>Objectives IOS</b>	Plan PLi <sup>(1)</sup>	4x / 0.12	•	•	<b>IS.7204</b>
	Plan PLi <sup>(1)</sup>	10x / 0.25	•	•	<b>IS.7210</b>
	Plan PLi <sup>(1)</sup>	20x / 0.40	O	O	<b>IS.7220</b>
	Plan phase PLPHi	S40x / 0.65	•	•	<b>IS.8940</b>
	Plan PLi <sup>(1)</sup>	S60x / 0.85	O	O	<b>IS.7260</b>
	Plan PLi <sup>(1)</sup>	S100x / 1.25	O	O	<b>IS.7200</b>
<b>Stage</b>	216 x 150 mm rackless stage with 79 x 52 mm X-Y mechanical stage		•	•	
<b>Condensers</b>	Swing-out 0.9/1.25 NA condenser		O	O	<b>IS.9105</b>
	Phase contrast condenser with 10/40 annuli in slider and green filter Ø 45 mm		•	•	<b>IS.9162</b>
	and alignment telescope Ø 30 mm		•	•	<b>IS.9149</b>
<b>Diascopic illumination</b>	3 W NeoLED™, Köhler		•	•	
	Filter White	Ø 45 mm	O	O	<b>IS.9706</b>
	Filter Green	Ø 45 mm	O	O	<b>IS.9702</b>
	Filter Blue	Ø 45 mm	O	O	<b>IS.9700</b>
	3 W NeoLED™ replacement unit		O	O	<b>IS.9993</b>

(1) Cover glass correction