

iScope®

polarization

HIGHLIGHTS

- EWF 10x/20 mm and 10x/22 mm eyepieces
- · Binocular and trinocular models
- Reversed quadruple revolving nosepiece
- Plan strain free infinity corrected objectives
- Ø 160 mm rotatable round stage
- Diascopic 3 W NeoLED™ Köhler illumination
- Epi-illumination 50 W
- · iCare sensor for energy saving
- CSS Cable Storage System
- 10 years warranty



EYEPIECES

Polarization models are supplied with a pair of EWF 10x/20 mm or 22 mm (Ø 30 mm tube) eyepieces, one eyepiece with crosshairs and one eyepiece with crosshairs and micrometer reticle

HEAD

- Binocular and trinocular Siedentopf type heads with 30° inclined tubes.
 Interpupillary distance from 48 to 76 mm
- Two \pm 5 diopter adjustments
- A unique rotating system allows the ergonomical positioning of both tubes in a high (431 mm) and in a low position (397 mm)
- The trinocular head has a 23.2 mm photo tube. This fits all C-mount adapters supplied with Euromex cameras

NOSEPIECE

Revolving quadruple reversed nosepiece on ball bearings

OBJECTIVES

Plan PLPOLi IOS ¹	5x/0.12	10x/0.25	20x/0.40	S40x/0.65	60x/0.85 ³	S100x/1.25 ³
Plan PLPOLRi IOS ²	5x/0.12	10x/0.25	20x/0.40		50x/0.75	S100x/0.80 ³

¹⁾ Plan PLPOLi strain free infinity corrected objectives for polarization applications. Objectives 5x without cover glass correction and 10/20/S40/S60/S100x oil with 0.17 mm cover glass correction. For transmitted polarization models



STAGES

- 360° Rotating Ø 160 mm graduated stage with two object clamps
- An optional 30 x 40 mm X-Y mechanical stage is available

CONDENSER

Height adjustable Abbe N.A. 1.25 condenser with iris diaphragm and 360°-swing out - rotatable polarizer

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

²⁾ Plan PLPOLRi strain free infinity corrected objectives for polarization applications. No cover glass correction. For models with reflected illumination ³⁾ Optional objectives



TRANSMITTED ILLUMINATION

 Intensity adjustable 3 W Köhler NeoLED™ illumination with internal 100-240 V power supply

The larger aperture of NeoLED™ allows the optical systems of the iScope® microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits for choosing the NeoLED™ are the low energy consumption, no heating and a long operating lifetime

 The Köhler diaphragm provides homogeneous illumination and high contrast

• Polarisation models with transmitted light only are supplied with: 360° rotatable polarization filter, 360° rotatable analyzer with 180 increments and nonius for 0.2 degree readout, Bertrand lens (build-in), 1 λ first red and $1/4 \lambda$ retardation plate, a quartz wedge, 45 mm green and blue filters for lamp house

REFLECTED ILLUMINATION

(PLPOLRi models only)

- Equipped with a 50 W 12 V halogen epi-illumination and external 100-240 V power supply
- Supplied with 360° rotatable polarization filter, 360° rotatable analyzer with 180 increments and nonius for 0.2 degree readout, Bertrand lens (build-in), 1 λ first red plate, 1/4 λ retardation plate, a quartz wedge, sliders with green/blue and white/neutral density filter. 45 mm green and blue filters for lamp house

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 back 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, tension control tool, dust cover, spare fuse and user manual. All packed in polystyrene boxes

MODELS	Bino	Trino	EWF 10x/20 mm	EWF 10x/22 mm	EWF 10x/20 mm with crosshairs	EWF 10x/22 mm with crosshairs		EWF 10x/22 mm with crosshairs and micrometer retide	Plan PLPOLi 5x/10x/20x/ S40x IOS objectives	Ø160 mm stage, 360° rotatable	Condenser with graduated 360° polarizer	Transmitted illumination Köhler LED	50W 12V halogen epi- illumination
IS.1052-PLPOLi	•			•		•		•	•	•	•		
IS.1053-PLPOLi		•		•		•		•	•	•	•	•	
IS.1052-PLPOLRi					•		•			•	•		•
IS.1053-PLPOLRi													

(1) Strain free



ACCESSORIES AND SPARE PARTS

IS.6210	EWF 10x/22 mm eyepiece		
IS.6210-C	EWF10x/22 mm eyepiece with crosshairs	IS.9602-R	Polarizer
IS.6210-P	EWF10x/22 mm eyepiece with pointer	IS.9604-R	Quartz wedge in slider
IS.6210-CM	EWF 10x/22 mm eyepiece with 10/100 micrometer and	IS.9608-R	360° rotatable analyzer in slider
	crosshairs	IS.9610-R	Lamda plate first red 530 nm
IS.6310	EWF 10x/20 mm eyepiece 30 mm tube	IS.9612-R	Lamda/4 retardation plate in slider
IS.6310-C	EWF10x/20 mm eyepiece with crosshairs, 30 mm tube		
IS.6310-CM	EWF 10x/20 mm eyepiece with 10/100 micrometer and	FOR ALL	ISCOPE POLARIZATION MODELS
	crosshairs, 30 mm tube	IS.7202	Plan PLi 2x IOS objective for iScope, working distance 18,3 mm.
IS.6215	WF15x/16 mm eyepiece		Best to be used together with swing-out condenser
IS.6220	WF20x/12 mm eyepiece		
		IS.9600	Polarization filter, 45 mm for lamp house
IS.6299	Pair of eyecups for iScope infinity models	IS.9700	Blue opaque filter, 45 mm for lamp house
		IS.9702	Green opaque filter, 45 mm for lamp house
FOR ISCO	PE TRANSMITTED POLARIZATION	IS.9704	Yellow opaque filter, 45 mm for lamp house
IS.7905-T	Plan strain-free PLPOLi 5x/0.12 IOS objective,	IS.9706	White opaque filter, 45 mm for lamp house
	no cover glass correction. Working distance 15.5 mm		
IS.7910-T	Plan strain-free PLPOLi 10x/0.25 IOS objective,	SL.5500	NeoLED™ replacement unit
	0.17 mm cover glass corrected. Working distance 10 mm	SL.3679	50 W 12 V spare bulb for unit (Ri type)
IS.7920-T	Plan strain-free PLPOLi 20x/0.40 IOS objective,	AE.3684	T500 mA 250 V Fuses for iScope
	0.17 mm cover glass corrected. Working distance 5.1 mm	AE.3685	T2 A 250 V Fuses for reflected illumination units power supply
IS.7940-T	Plan strain-free PLPOLi 40x/0.65 IOS objective,		
	0.17 mm cover glass corrected. Working distance 0.54 mm	AE.5130	Universal Ø 23.2 mm tube adapter with built-in 2x lens for SLR
IS.7960-T	Plan strain-free PLPOLi 60x/0.85 IOS objective,		photo camera with APS-C sensor. Needs T2 adapter
	0.17 mm cover glass corrected. Working distance 0.14 mm	AE.5025	T2 ring for Nikon D SLR digital camera
IS.7900-T	Plan strain-free PLPOLi 100/1.25 oil IOS objective,	AE.5040	T2 ring for Canon EOS SLR digital camera
	0.17 mm cover glass corrected. Working distance 0.13 mm		M: 11 76 96 1 1 59 1
15.0504	O and a selective the se	PB.5155	Microscope slides 76 x 26 mm, ground edges, 50 pieces
IS.9604 IS.9608	Quartz wedge in slider	PB.5165 PB.5168	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
IS.9610	Analyzer 0-360° rotatable Lamda plate first red 530 nm in slider	PB.5108 PB.5245	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces Lens cleaning paper, 100 sheets per pack
IS.9610	Lamda/4 retardation plate in slider	PB.5245 PB.5255	Immersion oil (25 ml). n = 1.515
13.9012	Lanua/4 retardation plate in slider	PB.5274	Isopropyl alcohol 99% (200 ml)
FOR ISCO	PE REFLECTED POLARIZATION	PB.5275	Cleaning kit: lens cleaning fluid, lint free lens tissue/paper,
IS.7905-R	Plan strain-free PLPOLRi 5x/0.12 IOS objective,	1 0.3273	brush, air blower, cotton swabs
1517705 11	no cover glass correction. Working distance 15.5 mm		stasti, ali siovei, cotton swass
IS.7910-R	Plan strain-free PLPOLRi 10x/0.25 IOS objective,		
	no cover glass correction. Working distance 10 mm		
IS.7920-R	Plan strain-free PLPOLRi 20x/0.40 IOS objective,		
-	no cover glass correction. Working distance 5.8 mm		
IS.7950-R	Plan strain-free PLPOLRi 50x/0.75 IOS objective,		
	no cover glass correction. Working distance 0.52 mm.		
IS.7900-R	Plan strain-free PLPOLi S100x/0.80 infinity corrected IOS		
	objective. No cover glass correction. Working distance 2.0 mm.		
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