

iScope® fluorescence

HIGHLIGHTS

- HWF 10x/22 mm eyepieces
- · Binocular and trinocular models
- · Optional ergonomic tilting head
- · Quintuple revolving nosepiece
- · E-Plan, plan and plan Fluarex IOS corrected objectives
- 187/230 x 140 mm rackless stage with integrated X-Y stage
- · Optional ceramic stage
- Diascopic intensity adjustable 3 W NeoLED™ Köhler illumination
- Epi-fluorescence 100 W HBO mercury vapor
- Blue and Green LED fluorescence
- · iCare sensor for energy saving
- · CSS Cable Storage System
- · 10 years warranty



EYEPIECES

Extended plan EWF 10x/22 mm eyepieces, Ø 30 mm tubes. Eyepieces can be secured to the tubes. The trinocular head of the Plan infinity corrected models (PLi and PLFi) has a light path selector (100:0 / 50:50) and \pm 5 diopter adjustments on both tubes.

The trinocular head of the E-Plan infinity corrected models (EPLi) has a fixed built-in light path beamsplitter (50:50) and \pm 5 diopter adjustment on the left tube

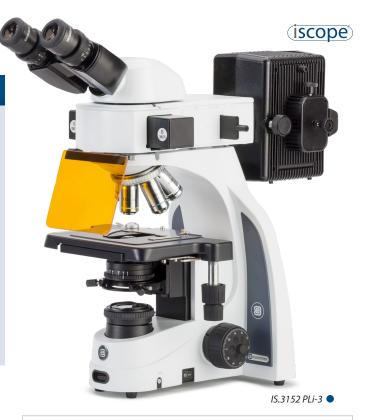
HEAD

- Binocular and trinocular Siedentopf type heads with 30° inclined tubes. Interpupillary distance from 48 to 76 mm
- 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

To order an iScope® with tilting head use reference IS.3158-xxx (Epli/Pli/PLFi)
To order an iScope® with tilting trino head use reference IS.3159-xxx (EPLi/Pli/PLFi)

OBJECTIVES

The EPLi and PLi objectives are suitable for Blue and Green standard filter sets and other filter sets in the visible spectrum. The plan Fluarex PLFi $^{\text{IM}}$ objectives are suitable for the entire spectrum including Ultra Violet and Violet



IS.3153-EPLi / IS.3153-PLI / IS.3153-PLFi 407 (h) x 210 (w) x 255 mm (d) | 11.3 kg

NOSEPIECE

Revolving quintuple reversed nosepiece on ball bearings

STAGE

187/230 x 140 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm mechanical stage. The iScope® rackless stage has no protruding parts, enabling more smooth movements and is safer

Optional: 220×157 mm ceramic stage with integrated 75 x 50 mm mechanical stage protects with a very tough ceramic surface, against marks and scratches. The surface also ensures stray light not to be reflected from the stage into the objective

CONDENSER FOR BRIGHTFIELD

The standard height adjustable Abbe N.A. 1.25 condenser for brightfield with magnification indication.

Also accepts sliders with phase annuli suitable for plan phase 10x/20x or S40x/S100x oil immersion IOS objectives for economical phase contrast. A slider with a simple dark stop for darkfield up to 400x magnification is also available for this condensor

E-Plan EPLi IOS	4x/0.10	10x/0.25		S40x/0.65		S100x/1.25 oil
Plan PLi IOS	4x/0.10	10x/0.25	20x/0.40 ⁽¹⁾	S40x/0.65	S60x/0.85 ⁽¹⁾	S100x/1.25 oil
Plan PLFi IOS	4x/0.13	10x/0.30	20x/0.50 ⁽¹⁾	S40x/0.75		S100x/1.30 oil

⁽¹⁾ optional

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput



CONDENSER FOR ZERNIKE PHASE CONTRAST

An optional height adjustable Zernike NA. 1.25 phase contrast disc condenser with darkfield stop position for darkfield contrast observation up to 400x magnification and plan phase 10/20/S40x and S100x oil immersion PLPHi IOS objectives

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 1 μ m per graduation, 200 μ m per rotation, total travel range is approximately 24 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

ILLUMINATION

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

The innovative NeoLED™ design offers larger apertures, allowing the optical system of the iScope® microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits of the NeoLED™ is the low energy consumption, no heating and a long operating lifetime

The Köhler illumination on models with IOS plan and plan phase infinity corrected system provides high contrast and a maximum achievable resolving power of the optics. Also available for other models as an option

ILLUMINATION FOR FLUORESCENCE

The 6-position rotating and 3-position slider fluorescence attachments are supplied with:

- a 100 W HBO mercury vapor light source for broad powerful light spectrum. Including an 100-240 V external power supply with indication of the life span of the HBO bulb
- · Standard fluorescence filters sets for
 - blue excitation (EX460- 490 (BP) DM520 EM500 (LP),
 - green excitation (EX510-550 (BP) DM580 EM570 (LP) and a UV protection shield



6 blocks fluorescence attachement

The iScope® fluorescence microscopes equipped with a 100 W mercury vapor light source can be supplied with more specific, optimized and application related fluorescence filters sets (see next pages).

Two single position LED fluorescence attachments:

- Blue: EX 460-495 DM 505 EM 510-560 LP filter set and a 3 W 465-475 nm LFD for blue excitation
- Green: EX 510-550 DM570 EM 590 LP filter set and a 3 W 520-530 nm LED light source for green excitation

Both LED versions are supplied with a 100-240 Vac/7.5 Vdc external power supply

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 ensures safe transportation of the microscope

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective. Models with 100 W mercury vapor light source have a UV protection shield. All packed in polystyrene boxes



3-POSITIONS SLIDER ATTACHMENT

• With 100 W mercury vapor light source

The 3-positions slider fluorescence attachments are supplied with standard 100 W HBO mercury vapor light source for broad powerful light spectrum. Supplied with standard fluorescence filters sets for blue and green excitation and a UV protection shield

MODELS	Bino	Trino	WF 10x/22 mm	Diopter adjustable on left tube	Diopter adjustable on both tubes	E-plan EPLi 4x/10x/S40x and S100x objectives	Plan PLi 4x/10x/ S40x and S100x objectives	Plan PLFi 4x/10x/ S40x and S100x objectives	100 W HBO light source	Filter sets (blue&green)	NeoLED illumination
IS.3152-EPLi/3	•		•	•		•			•	•	•
IS.3153-EPLi/3		•	•	•		•			•	•	•
IS.3152-PLi/3	•		•		•		•		•	•	•
IS.3153-PLi/3			•		•		•		•	•	•
IS.3152-PLFi/3	•		•		•			•	•	•	•
IS.3153-PLFi/3			•		•			•	•	•	•

6-POSITIONS ROTATING ATTACHMENT

• With 100 W mercury vapor light source

The 6-positions rotating fluorescence attachments are supplied with a standard 100 W HBO mercury vapor light source for broad powerful light spectrum. Supplied with standard fluorescence filters sets for excitation in the blue and green light spectrum and a UV protection shield

MODELS	Bino	Trino	WF 10x/22 mm	Diopter adjustable on left tube	Diopter adjust- able on both tubes	E-plan EPLi 4x/10x/S40x and S100x objectives	Plan PLi 4x/10x/ S40x and S100x objectives	Plan PLFi 4x/10x/S40 and S100x objectives	100 W HBO light source	Filter sets (blue&green)	NeoLED illumination
IS.3152-EPLi/6	•		•	•		•			•	•	•
IS.3153-EPLi/6		•	•	•		•				•	
IS.3152-PLi/6	•		•		•		•		•	•	•
IS.3153-PLi/6					•		•		•		•
IS.3152-PLFi/6	•								•		•
IS.3153-PLFi/6		•	•		•			•	•	•	•

1-POSITION SLIDER ATTACHMENT

Blue: single position slider fluorescence attachment with a 3 W NeoLED $^{\text{m}}$ light source for blue excitation (/LB) Green: single position slider fluorescence attachment with a 3 W NeoLED $^{\text{m}}$ light source green excitation (/LG)

MODELS	Bino	Trino	WF 10x/22 mm	Diopter adjustable on left tube	Diopter adjustable on both tubes	E-plan EPLi 4x/10x/S40x and S100x objectives	Plan PLi 4x/10x/ S40x and 100x objectives	Plan PLFi 4x/10x/ S40x and S100x objectives	Blue excitation 460-495 nm	Green excitation 520-530 nm	NeoLED illumination
IS.3152-EPLi/LB				•		•					•
IS.3153-EPLi/LB			•	•		•			•		•
IS.3152-PLi/LB	•		•		•		•		•		•
IS.3153-PLi/LB			•		•		•		•		•
IS.3152-PLFi/LB			•		•			•	•		•
IS.3153-PLFi/LB			•		•			•	•		•
IS.3152-EPLi/LG				•		•				•	•
IS.3153-EPLi/LG			•	•		•				•	•
IS.3152-PLi/LG							•				•
IS.3153-PLi/LG			•		•		•			•	•
IS.3152-PLFi/LG											•
IS.3153-PLFi/LG			•		•			•		•	•



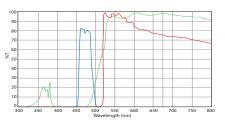
STANDARD GENERAL PURPOSE FLUORESCENCE FILTER SETS

IS.9745 -

Blue excitation filter set

EX: 460-490 nm bandpass DM: 520 nm

EM: 500 nm longpass



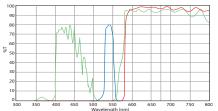
IS.9746 -

Green excitation filter set

EX: 510-550 nm bandpass

DM: 580 nm

EM: 570 nm longpass



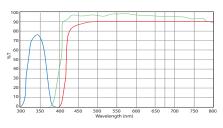
IS.9747 -

UV excitation filter set

EX: 330-385 nm bandpass

DM: 420 nm

EM: 400 nm longpass



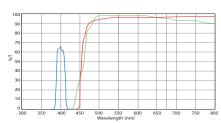
IS.9748 -

Violet excitation filter set

EX 400-410 nm bandpass

DM 455 nm

EM 455 nm longpass









ACCESSORIES AND SPARE PARTS

OPTIMIZED FLUORESCENCE FILTERS SETS

(Only for models with 100 W mercury vapor illumination)

- For fluorescence filter sets for the 6-positions attachment, add /6 to the reference below
- For fluorescence filter sets for the 3-positions attachment, add/3 to the reference below

IS.9750.39001

Filter set EX435 (BP20) DM455 (LP) EM480 (BP30) AmCyan, Atto 425, Cerulean, CFP, ECFP fluorophore. Needs empty filter block

IS.9750.39002

Filter set EX480 (BP30) DM505(LP) EM535 (BP40) Acridine Orange + DNA, Alexa Fluor 488™, Atto 488, Azami Green, BODIPY FL/pH7.2, Calcein, Calcium Green™-1, Cy2™, DiO, DyLight 488, EGFP, Emerald GFP, FAM, FITC, Fluo-4, GFP, LysoTracker Green/pH 5.2, MitoTracker Green, FM/MeOH, mWasabi, Oregon Green™ 488, SYBR® Green I, SYTO 9/DNA, ZsGreen fluorophore. Needs empty filter block

IS.9750.39003

Filter set EX495 (BP20) DM515 (LP) EM540 (BP30) Alexa Fluor 514™, Citrine, EYFP/pH 7, F/IAsH-CCPFCC, mCitrine, Oregon Green™ 514, Rhodamine 123, Topaz. Needs empty filter block

IS.9750.39004

Filter set EX540 (BP25) DM565 (LP) EM605 (BP55) Alexa Fluor 546[™], Alexa Fluor 555[™], Atto 550, CAL Fluor® Red 590, Cy3[™], Dil, DsRed, DyLight 549, MitoTracker Orange/MeOH, Resorufin, Rhod-2, TagRFP, TAMRA, tdTomato, Tetramethylrhodamine isothiocyanate, TRITC. Needs empty filter block



IS.9750.39005

Filter set EX540 (BP25) DM565 (LP) EM 620 (BP60) TRITC-red-shifted, Ethidium homidimer-1/DNA, Propidium Iodide. Needs empty filter block

IS.9750.39007

Filter set EX620 (BP50) DM655 (LP) EM 690 (BP50) Alexa Fluor 647™, Allophycocyanin (APC), Atto 647N, Cy5™, DiD, Draq5, DayLight 649, MitoTracker Deep Red 633/MeOH, Nile Blue, Quasar® 670, SYTO® 60, TO-PRO™-3. Needs empty filter block

IS.9750.39008

Filter set EX420 (BP40) DM455 (LP) EM 535 (BP40) Lucifer Yellow/Tetracycline/ AlexaFluor 430. Needs empty filter block

IS.9750.39009

Filter set EX480 (BP30) DM505 (LP) EM 620 (BP60) for Acridine Orange + RNA, Di-8-ANEPPS non-ratiometric, DiA, Ethidium, Bromide, FM™ 1-43, LysoTracker Yellow HCK-123, Pulsar™ 650. Needs empty filter block

OPTIMIZED PREMIUM FLUORESCENCE FILTERS SETS

(Only for models with 100 W mercury vapor illuminations)

IS.9750.0401

Premium filter set EX440 (BP21), DM455 (LP), EM480 (BP30) CFP, Cerulean, CyPet, SpectrumAqua. Needs empty filter block

IS.9750.0403

Premium filter set EX380 (BP50), DM410 (LP), EM450 (BP60) BFP, BFP2, DAPI, Alexa Fluor 350, Hoechst 33342 & 33258, BFP. Needs empty filter block

IS.9750.0404

Premium filter set EX470 (BP40), DM500 (LP), EM535 (BP50) Alexa Fluor 488, CoralHue Azami Green, Cy2, eGFP, FITC, GFP (sapphire), Emerald. Needs empty filter block

IS.9750.0407

Premium filter set EX635 (BP30), DM660 (LP), EM710 (BP80) Cy5, Alexa Fluor 647. Also compatible with TO-PRO-3, TOTO-3, Kodak, X-Sight 650. Needs empty filter block

IS.9750.0412

Premium filter set EX500 (BP25), DM252 (LP), EM545 (BP35) Acridine Oragne (+DNA), Rhodamine Green, CL NERF, (hi pH), YFP. Also compatible with Alexa Fluor 532. Needs empty filter block

IS.9750.0414

Premium filter set EX560 (BP55), DM505 (LP), EM645 (BP75) Texas Red, Texas Red-X, CryptoLight CF-6. Also compatible with Cy3.5, HcRed, mRaspberry, MitoTracker Red. Needs empty filter block

IS.9749-6	Empty filter cube for 6-position fluorescence attachment
IS.9749-3	Empty filter cube for 3-position fluorescence attachment
IS.9749-1	Empty filter cube for 1-position fluorescence attachment
IS.9753	Filter rail, 3-position

ALL MODELS

IS.6299

IS.9102	Standard Abbe condenser 1.25 NA condenser
	with slot for darkfield and phase contrast sliders

IS.9105	Swing-out	0 9/1 25	ΝΔ	condenser
13.7103	owillu-out	U.9/ I.Z.3	INM	condenser

1517105	Swilling Out 0.57 1.25 10 (collactise)
IS.6210	EWF 10x/22 mm eyepiece (Ø 30mm tube)
IS.6210-C	EWF 10x/22 mm eyepiece with cross hair (Ø30 mm tube)
IS.6210-P	EWF 10x/22 mm eyepiece with pointer (Ø30 mm tube)
IS.6210-CM	EWF 10x/22 mm eyepiece with 10/100 micrometer and cross hair
	(Ø30 mm tube)
IS.6212	WF 12.5x/17 mm eyepiece (Ø30 mm tube)
IS.6215	WF 15x/16 mm eyepiece (Ø30 mm tube)
IS.6220	WF 20x/12 mm eyepiece (Ø30 mm tube)

IS.7104	E-plan EPL 4x/0.10 objective. WD 15.2 mm
IS.7110	E-plan EPL 10x/0.25 objective. WD 5.5 mm
IS.7120	E-plan EPL 20x/0.40 objective. WD 3.5 mm
IS.7140	E-plan EPL S40x/0.65 objective. WD 0.45 mm
IS.7160	E-plan EPL S60x/0.85 objective. WD 0.19 mm
IS.7100	E-plan EPL S100x/1.25 objective. WD 0.13 mm

Pair of eyecups infinity models

IS.7100	E-plan EPL S100x/1.25 objective. WD 0.13 mm
IS.7710	Plan PLPH 10x/0.25 phase contrast objective. WD 12.2 mm
IS.7720	Plan PLPH 20x/0.40 phase contrast objective. WD 5 mm
IS.7740	Plan PLPH S40x/0.65 phase contrast objective. WD 0.37 mm
IS.7700	Plan PLPH S100x/1.25 phase contrast objective. WD 0.13 mm

IS.8804	E-plan EPLi 4x/0.10 IOS objective. WD 15.4 mm
IS.8810	E-plan EPLi 10x/0.25 IOS objective. WD 5.8 mm
IS.8840	E-plan EPLi S40x/0.65 IOS objective. WD 0.43 mm
IS.8800	E-plan EPLi S100x/1.25 IOS objective. WD 0.13 mm

IS.7202	Plan PLi 2x IOS objective, WD 18.3 mm. Best to be used together
	with swing-out condenser

IS.7204	Plan PLi 4x/0.10 IOS objective. WD 15.4 mm
IS.7210	Plan PLi 10x/0.25 IOS objective. WD 10 mm
IS.7220	Plan PLi 20x/0.40 IOS objective. WD 5.1 mm
IS.7240	Plan PLi S40x/0.65 IOS objective. WD 0.54 mm
IS.7260	Plan PLi S60x/0.85 IOS objective. WD 0.14 mm
IS.7200	Plan PLi S100x/1.25 IOS objective. WD 0.13 mm
IS.7200-I	Plan Super Contrast PLi S100x/1.25 IOS objective with built-in iris
	diaphragm. WD 0.13 mm

IS.7404	Plan Fluarex PLFi 4x/0.15 IOS objective. WD 21.6 mm
IS.7410	Plan Fluarex PLFi 10x/0.35 IOS objective. WD 2.9 mm
IS.7420	Plan Fluarex PLFi 20x/0.60 IOS objective. WD 1.5 mm



15 7440	Diagram Di Fi CAO. /O 7F IOC alsia akina WD O Caran	15 0700	Construction of the state of th
IS.7440	•	IS.9702	Green filter 45 mm for lamphouse
IS.7400	Plan Fluarex PLFi S100x/1.30 IOS objective. WD 0.13 mm	IS.9704	Yellow filter 45 mm for lamphouse
IC 0010	Diag DI DI 1 10.70 25 above a subset IOC in faith, a subset of a big ation	IS.9706	White opaque filter 45 mm for lamphouse
IS.8910	, , ,	15 0000	Contrade to the standard of the second by Contrade to
15 0000	WD 10.2 mm	IS.9800	Single photo tube attachment with one 23.2 mm tube for
IS.8920			IS.5700 ergonomic tilting head of iScope® infinity systems
15 00 10	WD 5.1 mm	15 0000	
IS.8940	,	IS.9880	Köhler attachment
15 0000	objective. WD 0.5 mm	AE.3484	Glass fuses 500 mA 250 V, 10 pieces
IS.8900	,	AE.3679	Halogen spare bulb 12 V 50 W
	objective. WD 0. 13 mm	AE.5168-I	Heating stage series with controller, only with new microscopes
		SL.5500	NeoLED™ replacement unit
IS.9124	· · · · · · · · · · · · · · · · · · ·		
	darkfield position	AE.5130	Universal SLR adapter with built-in 2x lens for standard 23.2 mm
IS.9127			tube. Needs T2 adapter
	darkfield position	AE.5025	T2 ring for Nikon D SLR digital camera
IS.9148	' '	AE.5040	T2 ring for Canon EOS SLR digital camera
IS.9149	Telescope for phase contrast diameter 23.2 mm tube	DD	N. 11 76 26
15 0400	6	PB.5155	Microscope slides 76 x 26 mm, ground edges,
IS.9102	'	DD 5165	50 pieces per pack
IS.9105	contrast sliders	PB.5165	Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces
13.9103	Swing-out 0.9/1.25 condenser	PB.5168 PB.5245	Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces Lens cleaning paper, 100 sheets per pack
IS.9160	Phase contrast slider set with 10x and S40x PLPH objectives and	PB.5255	Immersion oil, 25 ml. Refraction index n = 1.482
13.9100	annuli for 10/S40x PLPH objectives. Also suitable for optional 20x	PB.5274	Iso propyl alcohol 99%, 200 ml
	PLPH objective	PB.5275	Cleaning kit: lens fluid, lint free lens tissue/paper, brush, air
IS.9161	Phase contrast slider set with 20x and S100x PLPH objectives and	10.3273	blower, cotton swabs
13.5101	annuli for 20x/S100x PLPH objectives	PB.5276	Microscope maintenance and servicing kit, 16pcs: cleaning
IS.9162	·	1 5.5270	brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key, 1.5, 2, 2.5
1517102	corrected objectives and annuli for 10x/S40x PLPHi IOS infinity		mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100
	corrected objectives. Also suitable for optional 20x PLPHi infinity		pcs Lens tissue sheets, Tube of maintenance grease, 10 ml bottle
	corrected objective		of oil, packed in a nice toolbox
IS.9163	•		or on, packed in a fine toolbox
1515105	corrected objectives and annuli for 20x/S100x PLPHi IOS infinity	WD = working distance	
	corrected objectives		
IS.9170	Slider with darkfield stop		
IS.9194	Slider with phase contrast annuli for S40 phase contrast objective		
IS.9503	Large ceramic stage. Only with new microscopes, add /C suffix		
	after iScope® model part number		
IS.9600			
IS.9600 IS.9601	Polarization filter 45 mm for lamphouse		
	Polarization filter 45 mm for lamphouse		
	Polarization filter 45 mm for lamphouse Polarization set: simple rotating polarizer for lamphouse and fix		





