

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 corrected IOS objectives
- 216 mm x 150 mm rackless stage with integrated X-Y stage
- Optional ceramic stage
- Height adjustable Abbe condenser N.A. 1.25
- Coarse and fine adjustment
- Diascopic intensity adjustable 3 W NeoLED™ Köhler illumination
- Epi-fluorescence 100 W HBO mercury vapor
- Epi-fluorescence 460-495 nm or 510-550 nm 3 W LED
- iCare sensor for energy saving
- CSS - Cable Storage System
- 10 years warranty



IS.3152 PLi-3

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

- Extended EWF 10x/22 mm eyepieces, Ø 30 mm tubes.
- Eyepieces can be secured to the tubes

HEADS

- Binocular and trinocular Siedentopf type heads are with 30° inclined tubes, interpupillary distance from 48 to 76 mm and is equipped with diopter adjustment(s).
- An 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 comes with a Ø 23.2 mm photo port.
- An optional ergonomic titling head and corresponding Ø 23.2 mm photo tube attachment are also available (only infinity corrected models)

To order an iScope with tilting head use reference IS.3158-xxx

NOSEPIECE

- Revolving and reversed nosepiece for maximum 5 objectives

OBJECTIVES

E-Plan EPLi IOS	4x/0.10	10x/0.25	20x/0.40 ⁽¹⁾	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/0.10	10x/0.25	20x/0.40 ⁽¹⁾	S40x/0.65		S100x/1.25 oil

(1) Optional. The plan fluarex PLFi™ objectives are suitable for Violet and Ultra Violet excitation.

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

STAGES

- 216 x 150 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
- 220 x 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 accepts sliders with phase annuli suitable for plan phase 10x/20x or S40x/S100x oil immersion IOS objectives for economical phase contrast.
- With magnification indication.
- A slider with a simple dark stop for dark field up to 400x magnification is also available

CONDENSER FOR ZERNIKE PHASE CONTRAST

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

FOCUSING

- Coaxial coarse and fine adjustments, 200 graduations, 1 μm per graduation, 200 μm per rotation, total travel 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™ diascope illumination with internal 100-240 V power supply
- The innovative NeoLED™ design offer 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-positions rotating or 3-positions slider fluorescence attachments are supplied with standard 100 W HBO mercury vapor light source for broad powerful light spectrum and 100-240 V external power supply with indication of the life time of 100 W HBO lamp.
Supplied with standard fluorescence filters sets for blue and green excitation and a UV protection shield
- 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
- Two single position fluorescence attachments are supplied with 460-495 nm 3 W LED for blue excitation or 510-550 nm 3 W LED light source for green excitation and 100-240 Vac/7.5 Vdc external power supply.
Supplied with standard fluorescence filters sets for blue and green excitation



6 blocks fluorescence attachment

STANDARD GENERAL PURPOSE FLUORESCENCE FILTER SETS

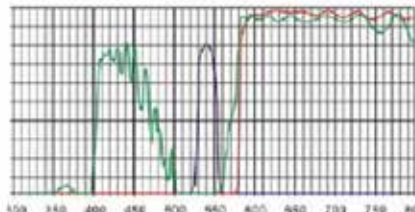
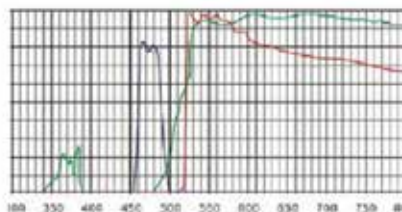
IS.9745 -

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

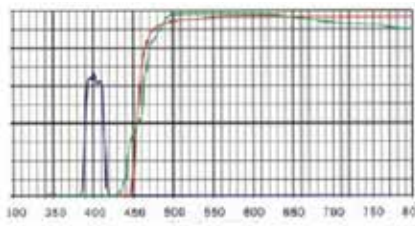
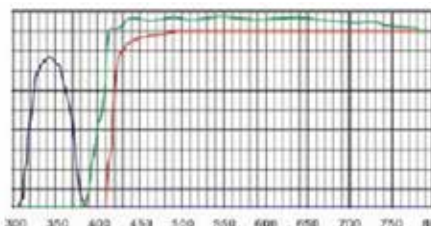
IS.9747 -

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

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 ensures safe transportation of the microscope

PACKAGING

- 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

MODELS



IS.3153 PLi/LB



IS.3152 PLi-3



IS.315 PLFi-6

SPECIFICATIONS (INFINITY)

		IS.3152-EPLi	IS.3153-EPLi	IS.3152-PLi	IS.3153-PLi	IS.3152-PLFi	IS.3153-PLFi	Product number
Models	Binocular	.	.	.	.	.	.	
	Trinocular		.		.		.	
Head	Ergonomic tilting head IOS series							IS.5700
Photo tube	for IS.5700 Ø 23.2 mm tube							IS.9800
Eyepieces	WF 10x / 22 mm	.	.	.	.	.	.	IS.6210
	WF 15x / 16 mm	O	O	O	O	O	O	IS.6215
	WF 20x / 12 mm	O	O	O	O	O	O	IS.6220
Diopter	adjustment on left side	.	.					
	adjustment on both sides			.	.	.	.	
Objectives IOS	E- Plan EPLi 4x / 0.10	.	.					IS.8804
	E- Plan EPLi 10x / 0.25	.	.					IS.8810
	E- Plan EPLi 20x / 0.40	O	O					IS.8820
	E- Plan EPLi S40x / 0.65	.	.					IS.8840
	E- Plan EPLi S100x / 1.25	.	.					IS.8800
	Plan PLi 4x / 0.10			.	.			IS.7204
	Plan PLi 10x / 0.25			.	.			IS.7210
	Plan PLi 20x / 0.25			O	O			IS.7220
	Plan PLi S40x / 0.65			.	.			IS.7240
	Plan PLi S60x / 0.85			O	O			IS.7260
	Plan PLi S100x / 1.25			.	.			IS.7200
	Plan PLF 4x / 0.10					.	.	IS.7404
	Plan PLF 10x / 0.25					.	.	IS.7410
	Plan PLF 20x / 0.40					O	O	IS.7420
	Plan PLF S40x / 0.65					.	.	IS.7440
	Plan PLF S100x / 1.25					.	.	IS.7400
Stage	Mechanical rackless stage	.	.	.	.	.	.	
Illumination	Diascopic 3 W NeoLED™	.	.	.	.	.	.	
Fluorescence attachment	100 W HBO mercury vapor 6-positions	add / 6 suffix	add / 6 suffix	add / 6 suffix	add / 6 suffix	add / 6 suffix	add / 6 suffix	
	EX 460-490 DM 520 EM 500 L filter (blue)	.	.	.	.	.	.	IS.9745-6
	EX 510-550 DM 580 EM 570 LP filter (green)	.	.	.	.	.	.	IS.9746-6
	EX 400-410 DM 455 EM 455 LP filter (violet)	O	O	O	O	O	O	IS.9747-6
	EX 330-385 DM 420 EM 400 LP filter (UV)	O	O	O	O	O	O	IS.9748-6
	Empty filter block	O	O	O	O	O	O	IS.9749-6
Fluorescence attachment	100 W HBO mercury vapor 3-positions	add / 3 suffix	add / 3 suffix	add / 3 suffix	add / 3 suffix	add / 3 suffix	add / 3 suffix	
	EX 460-490 DM 520 EM 500 L filter (blue)	.	.	.	.	.	.	IS.9745-3
	EX 510-550 DM 580 EM 570 LP filter (green)	.	.	.	.	.	.	IS.9746-3
	EX 400-410 DM 455 EM 455 LP filter (violet)	O	O	O	O	O	O	IS.9747-3
	EX 330-385 DM 420 EM 400 LP filter (UV)	O	O	O	O	O	O	IS.9748-3
	Empty filter block	O	O	O	O	O	O	IS.9749-3
Fluorescence attachment	3 W NeoLED™ 465-475 nm blue. 1-position	add / LB suffix	add / LB suffix	add / LB suffix	add / LB suffix	add / LB suffix	add / LB suffix	
	EX 460-495 DM 505 EM 510-560 LP filter set	.	.	.	.	.	.	IS.9745-1
	100 - 240 Vac / 7.5 Vdc 1 A power supply	.	.	.	.	.	.	IS.9211
Fluorescence attachment	3 W NeoLED™ 520-530 nm green. 1-position	add / LG suffix	add / LG suffix	add / LG suffix	add / LG suffix	add / LG suffix	add / LG suffix	
	EX 510-550 DM 580 EM 5170 LP filter set	.	.	.	.	.	.	IS.9746-1
	100 - 240 Vac / 7.5 Vdc 1 A power supply	.	.	.	.	.	.	IS.9211
iCare Sensor		.	.	.	.	.	.	
Köhler		.	.	.	.	.	.	

ACCESSORIES AND SPARE PARTS

OPTIMIZED FLUORESCENCE FILTERS SETS

(Only for models with 100 W mercury vapor illuminations)

- 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/AsH-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™, DiI, 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 homodimer-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-positions fluorescence attachment

IS.9749-3 Empty filter cube for 3-positions fluorescence attachment

IS.9749-1 Empty filter cube for 1-position fluorescence attachment

IS.9753 Filter rail, 3-positions

ALL MODELS

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

IS.9105 Swing-out 0.9/1.25 NA condenser

SL.5500 LED replacement unit for iScope

AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter

AE.5025 T2 adapter for Nikon D digital SLR cameras

AE.5040 T2 adapter for Canon EOS digital SLR cameras

PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces

PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces

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