

FLUORESCENT MICROSCOPE IMF-1500 SERIES



Fluorescent Microscope IMF-1500 Series is used to study the absorbing, transportation, chemicals distribution and positioning in cells. It is widely used in disease examination, immune diagnosis and life science areas. 6V/30W Halogen lamp illumination with consistent color temperature, achromatic objective to ensure high image flatness across the field, single lens and ABBE Condenser with iris diaphragm and backward quadruple revolving nosepiece. The trinocular viewing head has excellent Infinite Plan Achromatic 4 \times , 10 \times , 40 \times , 100 \times , N-PLN Plan: 4X/NA=0.10 of length 30mm, 10X/NA=0.25, of length 10.2mm, 20X/NA=0.40, of length 12mm, 40X/NA=0.65, of length 0.7mm, 100X(Oil)/NA=1.25, of length 0.2mm, Plan semi-apochromatic fluorescent 4X/0.13(infinity), of length 18.5mm 10X/0.30(infinity) of length 10.6mm, Plan semi-APO phase contrast: 10 \times NA=0.3 of length 8.1mm Cover glass, 1.2mm, 20 \times NA=0.45 of length 7.5-8.8mm objectives and each eye tube has interpupillary adjustment. Designed with U, V, R, B1 fluorescent filters. Provide tremendous fluorescent image with high resolution fluorescent objectives including Infinite Plan Achromatic, N-PLN Plan, N-PLN PH Plan Phase Contrast, N-PLFN Plan Semi-apochromatic Fluorescent:, Plan semi-apochromatic fluorescent objective, and backward quintuple, backward sextuple, motorized backward sextuple revolving nosepiece. Designed with Turret with 6 filter block cubes, 100W mercury lamp, epi-fluorescence HBO mercury lamp and B,G,UV fluorescent filters, epi-fluorescence attachment LED lamp with B,G,UV filters. Equipped with excitation filter for incoming light and emitted filters for emitted light and dichroic mirror to reflect the excitation light to the sample and instantaneously transmit only the emitted light from the sample back to the detector.

Features

- ◆ Wild field WF10X22 mm, super wide field SW10X25 mm, extra wide field EW12.5X17.5 mm, high eye point wide field plan eyepiece PL10X25 mm, and SW10X25mm,30 mm eyepieces
- ◆ Coaxial coarse and fine adjustment, fine division 0.002 mm, coarse stroke 37.7 mm/rotation, fine stroke 0.2/rotation, moving range 22 mm
- ◆ Double layers mechanical stage and triple layer mechanical stage, movement range 130 \times 85 mm, flexible knob.
- ◆ Swing Condenser NA 0.9/0.25 etc.
- ◆ Mirror and 12V/20W halogen lamp and 3W S-LED lamp light source
- ◆ Different filters including blue filter and green, amber, grey filters as an optional accessories
- ◆ Binocular 30 $^{\circ}$ inclined and a 360 $^{\circ}$ rotatable head with interpupillary distance 48 to 76 mm, trinocular 30 $^{\circ}$ inclined and a 360 $^{\circ}$ rotatable head with interpupillary distance 48 to 76 mm
- ◆ Small foot print and light weight
- ◆ Easy operating with ergonomic design
- ◆ Excellent image quality with infinite optical system
- ◆ Optional accessories: photo adapter canon DSLR camera, video adapter, 1 \times c-mount, 0.5 \times c-mount a etc.
- ◆ 12V/100W halogen lamp and LED lamp Kohler Illumination as an optional accessories

Technical Specifications

Model	IMF-1520	IMF-1540	IMF-1560	IMF-1580	IMF-1500
Type	Fluorescent Microscope				
Viewing Head	Trinocular at 30°, 360° Rotatable, ID: 48-75 mm	Trinocular, 30°, ID: 47mm-78 mm	Ergo Tilting Trinocular adjustable 0-35° ID: 47-78mm (op:Trinocular 30°, ID: 47-78mm)	trinocular (Inverted image), 30° inclined, ID:: 50-76mm	Trinocular head with Bertrand lens, d at 45°, ID: 47-78 mm
Magnification					internal magnification: 1x, 1.5x
Fluorescent	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter and polarizing slot; fluorescence filters (B,G fluorescent filters), 100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.		100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable. (75W xenon lamp house for option)		Epi-fluorescence HBO mercury lamp and B,G,UV fluorescent filters, field diaphragm, center adjustable(optional: Epi-fluorescence attachment LED lamp and B,G,UV filters, field diaphragm)
Reflected Light Source	Blue : 460-490 excitation, 505 dichroic mirror, 515 barrier filter; Green : 510-550 excitation, 570 dichroic mirror, 590 barrier filter				
Optical System	Infinite				
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm/Rotation, Fine Stroke 0.1mm/ Rotation, Moving Range 24mm	Low-position coaxial coarse and fine focusing, fine division 1µm, Moving range 35mm		Biological frame (transmitted), low-position coaxial coarse and fine adjustment, coarse adjustment distance	Coaxial coarse fine focusing. Movement range 9mm, coarse adjustment 2mm/rotation, fine adjustment 0.2mm/rotation
Eyepiece	WF10x/22mm	SW10X25mm, diopter adjustable		PL10X25mm, (optional: PL10X25mm, PL10X26.5mm,	SW10x/25mm, 30mm
		(optional: SW10X22mm, EW12.5X17.5mm, WF15X16mm, WF20X12mm, diopter adjustable		PL10X26.5mm, with reticle, diopter)	(optional: SW10X22mm, 30mm, EW12.5X17.5mm, 30mm, WF15X16mm, 30mm, WF20X12mm, 30mm)
Nosepiece	Backward Quintuple	Backward Sextuple	Motorized Backward Sextuple	Backward Quintuple(optional: Backward Sextuple)	6-hole nosepiece with DIC slot
Objective	Infinite Plan Achromatic Objective 4x, 10x, 40x, 100x	N-PLN Plan: 4X/NA=0.10, 30mm, 10X/NA=0.25, 10.2mm, 20X/NA=0.40, 12mm, 40X/NA=0.65, 0.7mm, 100X(Oil)/NA=1.25, 0.2mm		Plan semi-apochromatic fluorescent 4X/0.13(infinity), 18.5mm10X/0.30(infinity) 10.6mm,20X/0.50(infinity) 2.33mm40X/0.75(infinity) 0.6mm,100X/1.30(infinity), 0.21mm	Plan semi-APO phase contrast: 10x NA=0.3 8.1mm Cover glass, 1.2mm, 20x NA=0.45, 7.5-8.8mm Cover glass 0-2mm, 40x NA=0.60, 3-4.4mm Cover glass 0-2mm(optional: 4xNA=0.13, 16.5mm Cover glass 0-2mm, 60x NA=0.70 1.8-2.6mm.
	Infinite Plan Achromatic 20x, 60x,	(opt:50X(Oil)/NA=0.95, WD=0.19mm60X/NA=0.80, WD=0.3mm); N-PLN PH Plan Phase Contrast: 10X/NA=0.25 10.2mm, 20X/NA=0.40, of length 12mm, 40X/NA=0.65,0.7mm; N-PLFN Plan Semi-apochromatic Fluorescent: 4X/NA=0.13, 17.2mm.			
	(optional: Infinite Plan Fluorescent 4x,10x,20x,40x, 100x)				

Stage	Double Layers Mechanical Stage 185x142/ 75x55 mm	Double layers mechanical stage, size 190mmX152mm; moving range78mmX32mm (Right or left handle); precision: 0.1mm	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slides holder, Right or left handle); precision: 0.1mm; with Sapphire Crystal Glass Insert	Double layers mechanical stage, size: 187mm X168mm; moving range: 80mm X55mm; precision: 0.1mm; two-way linear drive, tension adjustable	Three-layer mechanical stage, movement range 130x85mm, flexible knob. Different small sizes stage could be attached to main stage
Light Source	6V/30W Halogen lamp External Kohler illumination, A spherical collector	3W S-LED lamp, center pre-set, intensity adjustable		12V/100W halogen lamp house for transmitted light, center pre-set, intensity adjustable	12V/100W halogen lamp, Kohler illumination(optional: LED illumination
		(optional:12V/100W halogen lamp)			ECO Auto-off function)
Condenser	Swing Condenser NA 0.9/0.25	Swing-out type condenser N.A.0.9/0.25(Auto)		Swing-out type achromatic condenser (N.A.0.9)	Long working distance condenser, NA0.55, WD=26mm, with 6-position plate
		(optional: Dark-field Condenser (Dry), used for objectives lower than 100X			
		Turret Phase Contrast Condenser			
		Dark-field Condenser (Oil), used for 100X)			
Filter		U,V,R fluorescent filters			V, B1, R fluorescent filters
Certification					
Accessories	-	Dust Cover, Power Cord, Cedar Oil 5ml			
Optional Accessories	Photo Adapter Canon DSLR camera,	10X DIC Objective Lens, 20X DIC Objective Lens		Camera adapter;, 0.5X/0.65X/1X focusing C-mount, Cooled CCD camera, SONY 2/3", 1.4MP, ICX285AQ, Color CCD, Centering objective for fluorescence observation, Calibration slide 0.01mm	Dark field
	Video Adapter	Polarizer for DIC Kit, DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece		Multi Viewing Attachment for 5 persons, DIC Attachment	Polarizing kit
	1x C-mount, 0.5x C-mount	DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece, DIC Turret Condenser			Phase contrast
	a	U,V,R fluorescent filters, ND6/ND25 Filter			DIC
		0.5X C-mount Adapter, 1X C-mount Adapter			
Electrical Requirement		100VAC			
Catalogue No.	440110-05-04	440110-10-01	440110-15-04	440110-20-04	440110-25-04

Sample Image

