

UPRIGHT FLUORESCENCE MICROSCOPE IMF-2100 SERIES



Upright Fluorescence Microscope IMF-2100 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 Kohler Illumination with consistent color temperature, achromatic objective to ensure high image flatness across the field, single lens and ABBE Condenser with iris diaphragm and Quintuple along with choice offer reversed sextuple nosepiece. The Trinocular viewing head has excellent Infinite Plan Achromatic: 4X/0.10, 17.3 mm, 10X/0.25, 10 mm, 40X/0.65(S), 0.54 mm, 100X/1.25(S, Oil), 0.13 mm and optional: 20X/0.40, 5.1 mm; Infinite Plan Fluorescent: 4X/0.13, 10X/0.30, 20X/0.50, 40X/0.75(S), 100X/1.3(S, Oil), objectives and each eye tube has interpupillary adjustment. Designed with Neutral ND25/ ND6 filters as optional accessories. Provide tremendous fluorescent image with high resolution fluorescent objectives including infinite Plan Fluorescent, Infinite Plan Achromatic objective, and backward quintuple nosepiece. Designed with 100W HBO Ultra Hi-voltage Spherical Mercury, 6V/30W Halogen Lamp Kohler Illumination fluorescent lamp. Advantage of HBO mercury lamp: various spectral peaks, incoherent source, reasonable price, and compact light emitting surface. 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

- ◆ Advanced lamp housing to protect light leaking
- ◆ Extra wide field EW10X22mm eyepieces
- ◆ Coaxial coarse and fine adjustment and fine division: 0.001 mm, coarse stroke of length 37.7 mm/Rotation, fine stroke 0.1mm/Rotation, moving range 24 mm
- ◆ Double layers mechanical stage of length 185×142 mm, moving range 75×55mm
- ◆ Swing condenser NA 0.9/ 0.25
- ◆ 1W S-LED and 6V/30W halogen lamp light source
- ◆ Different filters including Neutral ND25/ ND6 Filter as an optional accessories
- ◆ Trinocular 30° inclined and a 360° rotatable head with interpupillary distance 48 to 75 mm
- ◆ Small foot print and light weight
- ◆ Easy operating with ergonomic design
- ◆ Excellent image quality with infinite optical system
- ◆ Optional accessories to realize Photo and Video Adapter, filters
- ◆ 24V/100W and 5W LED Kohler Illumination Halogen lamp as an optional accessories



Technical Specifications

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| Model | IMF-2100 |
| Type | Upright Fluorescence Microscope |
| Viewing Head | Trinocular Head, Inclined at 30°, Interpupillary Distance 48-75mm |
| Fluorescent | |
| Reflected Light Source | Blue: 460 to 490 nm excitation,500 Dichroic Mirror, 520 Barrier Filter; Green: 480 to 550 nm excitation,570 Dichroic Mirror, 590 Barrier Filter(optional: Blue(B1): 460 to 495 nm excitation,505 Dichroic Mirror, 510 to 550 Barrier Filter;UV:330 to385 excitation,400 Dichroic Mirror, 420 Barrier Filter; V: 400 to 410 nm excitation,455 Dichroic Mirror, 455 Barrier Filter; Red: 620 to 650 nm excitation,660 Dichroic Mirror, 670 to 750 Barrier Filter) |
| Optical System | Infinite |
| Focusing | Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 24mm |
| Eyepiece | Extra Wide Field Eyepiece EW10x/22mm, Eyepiece tube diameter 30mm |
| Nosepiece | Backward Quintuple(optional: Backward Sextuple) |
| Objective | Infinite Plan Achromatic: 4x/0.10,17.3mm, 10x/0.25,10mm, 40x/0.65(S),0.54mm, 100x/1.25(S, Oil), 0.13mm(optional: 20x/0.40, 5.1mm; Infinite Plan Fluorescent: 4x/0.13, 10x/0.30,20x/0.50,40x/0.75(S),100x/1.3(S, Oil), |
| Stage | Double Layers Mechanical Stage 185x142mm, Moving Range 75x55mm |
| Light Source | 6V/30W Halogen Lamp Kohler Illumination(optional:24V/100WHalogen Lamp Kohler; 3W/5WLED) |
| Condenser | Swing Condenser NA 0.9/ 0.25 |
| Mirror | |
| Filter | Neutral ND25/ ND6 Filter(optional) |
| Certification | |
| Accessories | 100W HBO Ultra Hi-voltage Spherical Mercury Lamp, Barrier to Resist the Ultraviolet Light, Power Supplier NFP-1, 220V/110V Voltage Interchangeable, Digital Display, Fluorescent Free Oil, |
| Optional Accessories | Photo and Video Adapter, filters |
| Catalogue No. | 440115-05-04 |