

**Fluorescence Microscope**

**Specifications**

(Trinocular Upright Microscope with Scientific Digital Camera)

<b>Microscope Stand</b>	<b>Upright Microscope stand with 6 position encoded/intelligent nosepiece supported by DIC or better,</b> Should have 6-position reflector Fluorescence turret, - should have snap button - ECO mode - Light manager for TL LED - Automatic features for camera control, Image enhancement functions and readout of encoded microscope functions
<b>Nosepiece</b>	Encoded/intelligent 6 position Nosepiece or more for bright field, dark field, Phase contrast and should support DIC as well
<b>Trinocular Tube</b>	Trinocular phototube 45°/22 (100:0/0:100), reversed image with sliding prism, low-vibration prism switch
<b>Mechanical stage</b>	Should have a mechanical Stage 75x50 or better with Slider Holder
<b>Reflector Turrets</b>	Reflector turret 6 position manual <b>encoded</b> or better, changeable fluorescence filters or DAPI, FITC, TRITC
<b>Fluorescence Illumination</b>	LED Illumination along with microscope body with intensity control and illumination life of 20,000 hrs or better. Should have 4 channel long life LED illumination of 385 nm, 475nm, 525 nm and 625 nm or better
<b>Transmitted light components</b>	Should have a Universal condenser of 0.88 NA or better for Bright field, Dark field, Phase contrast and DIC components. Should have at least 10W LED illumination (50000 Hours life time) or better.
<b>Filters &amp; Sliders</b>	Should have suitable Band pass filters UV/ DAPI, FITC, TRITC & Cy5
<b>Eyepieces</b>	Eyepieces 10x with FOV <b>22 or better</b> , Focusable with Eye guard, pair
<b>Objectives</b>	<b>Suitable Objectives for both Transmitted Light and fluorescence Illumination</b>  <b>Achromatic Plan- 4x or 5x/0.10 or better</b> <b>Achromatic Plan 10x/0.25 or better</b> <b>EC Plan-Neofluar 40x/0.75</b> <b>EC Plan Neofluar 100x/1.30 (oil)</b>
<b>Color Camera</b>	High resolution, scientific grade, color camera for Imaging in both monochromatic and color mode Number of Pixels: 5464 (H) x 2956 (V) = 16 Mega Pixels Pixel size: 5.40 µm x 5.40 µm Chip size: equivalent to 2/3" sensor or Better Live Frame rate of more than 9 FPS at full frame & 40 fps @ 1920 x 1080 or ROI Mode.
<b>Software for imaging</b>	System integrated software for capturing images, and should be able to

<b>and Analysis</b>	perform Bright field, Dark field, Phase contrast and fluorescence imaging , image adjustments Image annotations (text, arrows, boxes, circles, scale bars, Image tags such as acquisition and exposure time) Interactive measurement of intensity profiles, length, area, perimeter, circle, angle, counting and marking of events. Extensive configuration capabilities of all components of the graphical user interface (creation of user specific dialogs, toolbars, workflows, keyboard shortcuts and icon assignment). Image import should be in (lsm, bmp, tif, jpg, j2k, jp2, gif,). Export of ZVI Z-Stack or Time Lapse sequences as movies (AVI, MOV). Image enhancement (brightness, contrast, gamma, smooth/sharpen, noise reduction, background subtraction, shading correction, white balance)
<b>Image Analysis</b>	
<b>Other Parameters</b>	Microscope & Camera should be of latest version
	Microscope, Camera & Software should be from same OEM
	Vendor to submit the brochure with the quotation along with ISO/CE/USFDA certificate.
	Vendor to give demonstration of the quoted model on request without which the bid will not be considered