

Sl. No	Name of Microscope	Specifications of the Microscope
16	Upright Research Trinocular Phase Contrast Microscope with high resolution color scientific camera & imaging software	<ul style="list-style-type: none"> <li>• The Microscope ergonomically designed stand preferably with international standard certification should be TUV approved &amp; made from single moulded material with anti-fungal treatment &amp; suitable for Bright Field, Dark Field, Phase Contrast, Polarization contrast for biological sample &amp; Fluorescence illumination.</li> <li>• High power 12V/50 watt for transmitted light illumination for halogen lamp &amp; along with for LED (5500-5700) lamp attachment for high demanding illumination needs by simple change over. Microscope should have possibly to convert in to 3W LED illumination for long life routine use.</li> <li>• Back tilted revolving nosepiece with precision click stops to accommodate 5 objectives. The nose piece should have a slot for insertion of analyser for Polarization study upgradation.</li> <li>• All optics are Infinity Color Contrast Corrected System concept and should be guaranteed &amp; certified for anti-fungus treatment upto three years from the manufacturer's. (certificate should be provided).</li> <li>• Infinity corrected optical system based 5x, 10x, 20x, 40x, 63x, 100x (oil) objectives &amp; universal turret type condenser suitable for microscopic transmitted light application bright field, phase contrast.</li> <li>• Dual layered mechanical stage with Complied hard core anodized surface with 200– 220x130-150mm with XY movement of 70-75x25-30mm with low positioned co-axial X Y movement knobs with friction adjustment mechanism.</li> <li>• Binocular phototube 30° with Siedentop optical head design swivelling for comfortable two position height observations, IPD adjustable 55 mm to 76 mm and Wide field 10x with a field of view 22 mm or more with focusable front lens with provision to insert graticules including rubber eyecups.</li> <li>• The microscope ISO 13485:2012, CE certified and approved by TUV for ergonomics (certificate should be enclosed)</li> <li>• Along with teaching device with additional 2 co-observers &amp; 2-position reflector turret for LED epi-fluorescence application also.</li> <li>• Photography system &amp; PC:Resolution upto 5.0 Megapixels &amp; pixel size should be: 2.2 μm x 2.2 μm or higher. Frame Rate maximum 47 fps or higher &amp; Exposure time: 100μs to 2 s, with c-mount 0.5x adapter. Imaging software for image acquisition, capturing, live image preview, white balance adjustment, interactive measurement, angel, contour etc. complete desktop computer (Windows 10 (pro), 64 bit, with Intel core i7 processor, 6th Gen, 4-8 GB RAM, 1TB HDD, 2-4 GB graphics card) should be quoted along with the system to supplied along with the system to run the CCD camera &amp; software.</li> <li>• Extra lamp/bulb one set</li> <li>• Warranty for two years</li> </ul>

Sl. No	Name of Microscope	Specifications of the Microscope
17	Upright Research Microscope Phase contrast, Fluorescence & DIC application illumination along with high resolution CCD camera & imaging software.	<ul style="list-style-type: none"> <li>• Microscope should be suitable for Bright Field, Dark Field, Phase Contrast, Fluorescence &amp; DIC application. Also should be dual camera attachment facility.</li> <li>• Transmitted light halogen lamp for (12V/100 watt) for observation and photomicrography under bright field &amp; phase contrast application, DIC application along with a spare lamp.</li> <li>• Binocular phototube with dual camera facility should be 20° for better ergonomic for observation under bright field, fluorescence &amp; DIC illumination.</li> <li>• Wide field focusable 10x eyepieces with larger field of view should be 23 -25 mm or higher for observation under fluorescence &amp; DIC image.</li> <li>• 6x revolving nosepiece (accommodate 6 objectives at a time).</li> <li>• Infinity color contrast corrected optical system based objective 5x, 10x, 20x, 40x, 63x, 100x (oil). 40x &amp; 100x should be Fluorite objective with DIC facility &amp; 100x should be high N.A 1.30.</li> <li>• Magnification changer 1.0x to 4.0x should be available with push and click module. Fluorescence &amp; DIC images as well as photographic images can be magnified.</li> <li>• Achromatic aplanatic universal turret type condenser for bright field, Phase contrast &amp; DIC application.</li> <li>• Large circular disc type Intensity regulator &amp; focusing knob placed both side, accessible from both side.</li> <li>• Microscope stand should be built in 6-position filter wheel equipped with filter slider at the back for -Interference green filter, white balance filter, contrast enhancing blue filter, Neutral Density filter range 0.2 – 0.4 &amp; Neutral density 0.04 – 0.08, daylight conversion filter for contrast enhancement for transmitted light application.</li> <li>• Fluorescence reflector turret should be six position for fluorescence filters.</li> <li>• The burner should be removable with the drawer – for a particularly easy and comfortable change of burner.</li> <li>• Fluorescence Filter with stray light trap system. filters are insertable and removable with push &amp; click method without any need of tools.</li> <li>• 100-watt mercury vapour lamp for fluorescence illumination with fluorescence filters</li> <li>• Fluorescence Filter UV, Blue, Green/Red Excitation.</li> <li>• Photography system:</li> </ul>

		<ul style="list-style-type: none"> <li>• Basic CCD resolution 5.0 MP, pixel pitch should be 3.45µm X 3.45µm or better, image sensor 2/3", live image frame rate 15 max. (on resolution upto 1920 x 1080) or better, exposure time: 1 ms to 4s, dynamic range:- approx. 1:500 &amp; imaging software for live image preview, multi-channel fluorescence, multi focusing module, interactive measurement, shading correction, colour adjustment, white balance settings, text annotation etc. complete with CCD C-mount adapter 0.63xcompatible trinocular microscope. It should be complete with a suitable Laptop/Desktop (with Intel core i7 processor, Windows 10(pro),64 bit, 6 cell battery(laptop), 6th Gen, 8 GB DDR4, 1TB HDD, 4 GB graphics card, 14-inch screen for laptop) to supplied along with the system to ran the CCD camera &amp; software.</li> <li>• Warranty for two years</li> <li>• Spare parts should be made available upto 10 years after purchase</li> </ul>
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