

Binocular Inverted Microscope

Inverted microscope stand for transmitted light in biological application with three position stage support, coaxial double knob coarse and fine focus.

Five place revolving nosepiece.

The microscope should have Halogen lamp (12volt 100W) for DIC and transmitted light application. All the accessories for phase contrast (polarization), bright field, Dark field Contrast and Differential Interference Contrast and Fluorescence (e.g. with fast internal filter-wheels).

DIC revolving nosepiece to hold more than or equal to 3 objectives at a time with anti collision mechanism

Iris aperture diaphragm, condenser holder, filter holder,

The microscope should be provided with universal turret condensers with more than or equal to 3 positions at a time

The microscope should be fitted with condensers performing ultralong working distances.

Infinity color corrected system

Fixed stage with attachable mechanical stage for X-Y travel of the sample with an adjustment range

Universal holder to hold petridishes, hemocytometer, glass slide and tissue culture flasks

Photo tube with 45 degree viewing angle

Eye piece pair 10x22 focusable and adjustable

Condenser with long free working distance for bright field, phase contrast, and three position slider with all filters including green and daylight filter

The objective lenses should have high resolution apochromatic optics corrected for more than three colors in the visible range. Should provide complete flatness throughout the field of view and should have correction rings/collars, springs and the objective should be corrected for finite focus distance. All the details specifications of all the objectives should be provided and quoted.

CFI/Plan apochromatic objective 4/5x, 10x/NA 0.30 with phase contrast imaging ability), 40x/NA 0.95 or higher is preferred, dust cover.

Modules for DIC imaging for all the objective should be preferred.

120/130Watts pre-centered fiber coupled metal halide or mercury lamp for fluorescence observation with proper precaution for obtaining constant and non-fluctuating light.

Power: 230 Volt 50 Hz (Indian power cable)

Optional items

Complete system of digital CCD camera with 5MP or above for high resolution including software for image capture and analysis

Suitable desktop PC with laser jet printer may be quoted along with the instrument as essential accessories.