

## Technical Specifications for Motorized Fluorescence Research Microscope

- Motorized Research microscope stand for transmitted light for 12V 100W Halogen illumination; with adjustable height stop and torque of focusing; the stand should include a TFT /LCD touch screen for controlling the complete microscope functions.
- Revolving motorized nosepiece 6-fold for accommodating upto 6 objectives and should have slot for DIC
- 6- position motorized reflector turret for mounting upto 6 fluorescence filters
- Power supply for 12V 100W halogen lamp, stabilized: Illuminator with ceramic lamp socket and adjustable in x, y and z directions for centering.
- Transmitted light shutter also should be quoted.
- Binocular phototube 15° (100:0/0:100), upright image adjustable stop, camera port with interface
- Mechanical stage **75x50/240° R** with hardcoat anodized surface / - 240 x 170 x 18 mm stage plate coaxial drive right 150 mm, / extendable in length by 15 mm,/ friction setting without any tools
- Infinity corrected Objectives common for Bright field, DIC and Fluorescence techniques : Objectives Objective "Achromatic plan 10x/0.25 / Plan-Fluar objectives 40x/0.75 and Plan Apochromatic 63x/1.40 Oil should be quoted. With DIC slider for 40x & 63 X
- Motorized Achromatic – Aplanatic Universal turret type condenser 0.9 with switchable top lens and should contain individually centerable phase stops for objectives upto 100x , Darkfield stop for objectives upto 40x , Bright field and DIC slots . condenser should be capable of working with objectives 1x to 100x without any additional optics.
- Wide field ,High eyepoint Eyepiece pair 10x of field of view 23mm or better, focusable & adjustable dioptre setting of +/- 5; the eyepieces should be provided with soft rubber eyecups for comfortable distance to be maintained by the user's eyes.
- Common reflected light path for fluorescence and reflected light Bright field and darkfield: The light path should be apochromatically corrected and should be quoted with a motorized highspeed shutter of switching time 20 ms: Metal Halide illumination Illuminator HXP 120 V inclusive built in power supply, lamp module and infrared filter Fluorescence light source with motorized brightness switch and integrated motorized shutter, that works stepper motor controlled, fast and vibration free.
- Fluorescence filters for DAPI, FITC, Cy 3.5 and Endow GFP should be quoted.