

Color Flu™

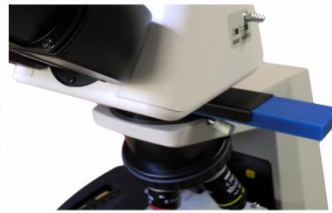
**For one and two excitation
High efficiency LED
Transmitted type fluorescence microscope**

**Fit on microscope field lens
No alignment light source
Easy to on-off, No warm up and cool down
Low power consumption, battery pack, car charger
30,000 hrs. life time
Maintenance free**

**Nikon E200, E400/600, 50i, Ci
Olympus CX31 to BX51
For other Brands/Models please inquire**



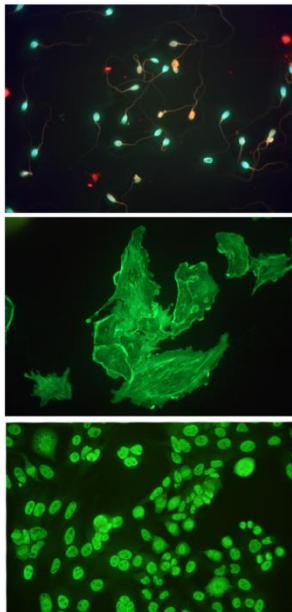
X mirror for changing excitation light



3 Position emission filter slider



LED excitation block



LED excitation block wave length:

UV	365nm
ROYAL BLUE	450nm
BLUE	480nm
GREEN	535nm
YELLOW	590nm
RED	630nm

Comparison between LEDs and High-Pressure Hg Lamps

HIGH-PRESSURE Hg LAMPS	LEDs	KEY POINT
Baseline spectrum from UV to IR plus few sharp and bright emission lines	Very high brightness narrow spectral band from UV to IR	Available from UV to IR
100 Watt	3 Watt (equivalent to 100 Watt)	High power: 90% within 15 nm band High efficiency Low consumption
Excitation filters required for each wavelength Out of band noise typically 10 ⁻⁶	Excitation filters required for each wavelength Out of band noise typically 10 ⁻⁸	Selective Higher S/N ratio
Bulbs life < 300 hours and must be on for hours to insure long-life	20/50,000 hours lifetime and unaffected by instant on-off switching	Long life High consistency Lower maintenance costs
Replacement and handling is hazardous	Replacement rare with 50,000 hour working life. LED replaced in an instant with no set-up problems	Cost reduction Safety
Lamps require frequent adjustments	No adjustment needed	Time-saving Easy-to-use
Require expensive and high power supply	Low voltage 7.5 vDC power supply and driver	Cost reduction Power saving
Needs expensive dichroic filters for epi-illumination	No filters needed Uses transmitted illumination	Cost reduction Low complexity
Specimens fade rapidly and can be "cooked" by the heat output	Lower rate of fluorochrome fading No heat produced by LEDs	Allows longer observation time even with critical fluorochromes