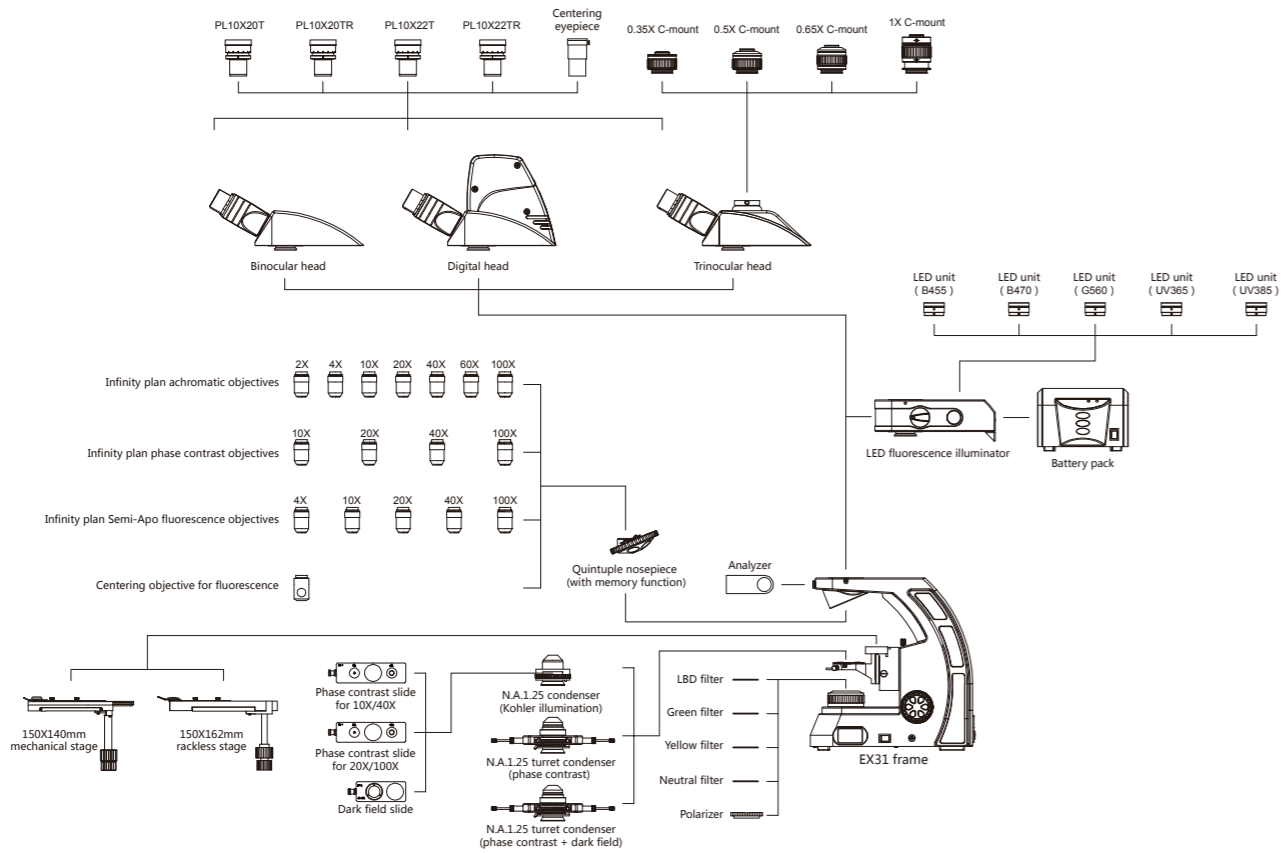
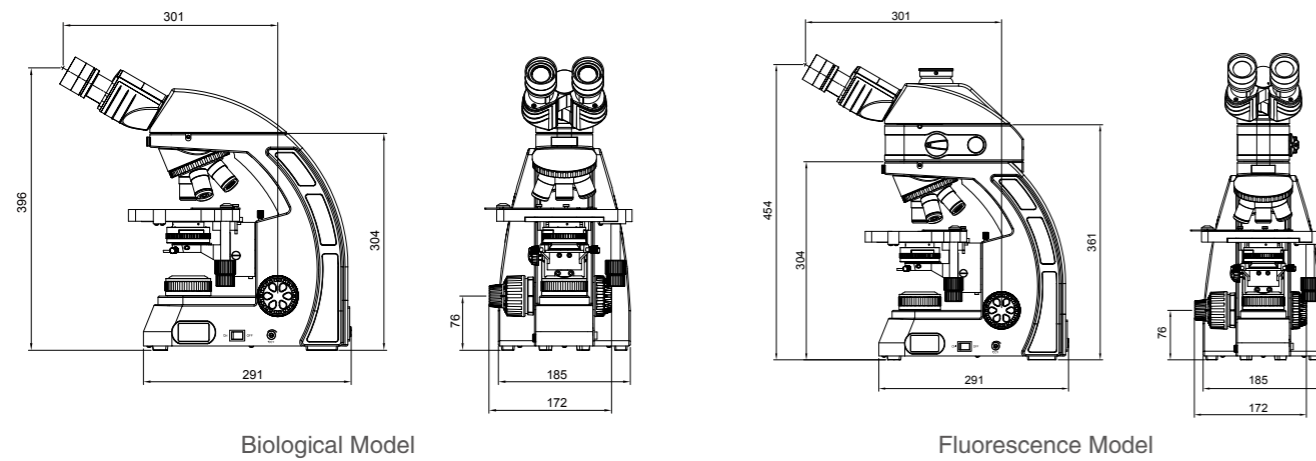


EX31 Diagram



EX31 Dimension (mm)



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 No additional notice for changes on the specification or appearance

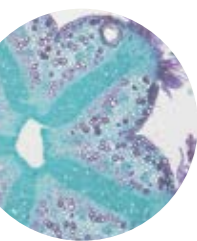
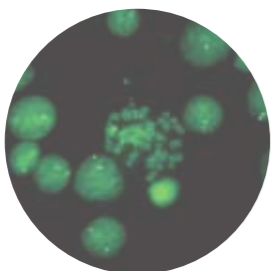
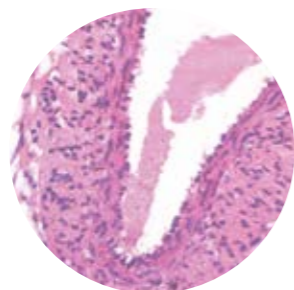
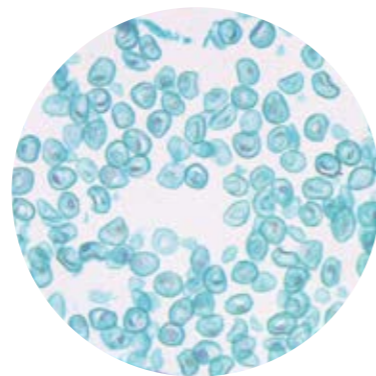
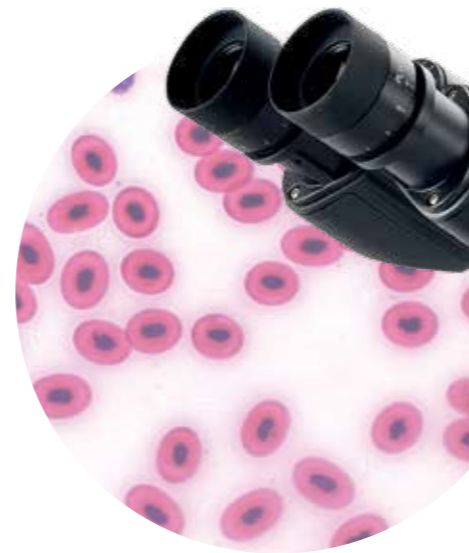
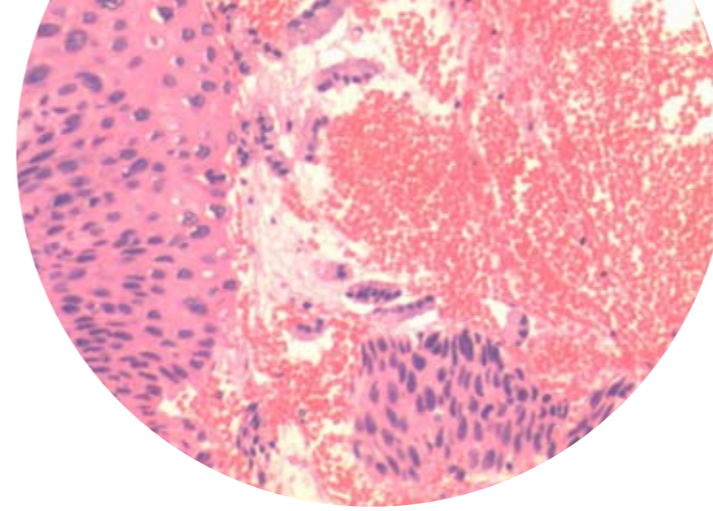
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EX31

As a national initiative design, the color temperature is adjustable between cool and warm.

Based on advanced optical and mechanical technology, EX31 is specially designed for teaching, lab and clinical diagnosis.

With excellent optical system and complete accessories, EX31 supports for bright/dark field, phase contrast, fluorescence, presents clear micro image. Integrated with intellectualized design, such as adjustable color temperature, EX31 creates an easy and efficient work experience.



Engineering structure with practicality and aesthetic

The double-layer mechanical stage of EX31 adopts line rail for overload protection at the end of X axis, and avoids the potential hazard caused by moving rack.



Cool or warm, choose you want

Most samples is suitable to be observed under natural white light, some water white samples should adopts warm color for outline and detail check.

Unnecessary to add filters or change light source, color temperature range from 3000K to 5600K, EX31 is able to meet different demands for best image.



3000K warm color LED (minimum)



5600K natural white LED (maximum)



Intelligent illumination system

EX31 with code nosepiece is able to automatically remember the light intensity of each objective which you are used to, helps to improve the work efficiency and decrease the visual fatigue.

LCD beside the frame shows color temperature and light intensity, as well as the objective magnification you are using, is helpful to make record of experiment condition.



How to correct the color temperature

The color temperature of LED light source is adjustable by straight screwdriver.



LED fluorescence attachment



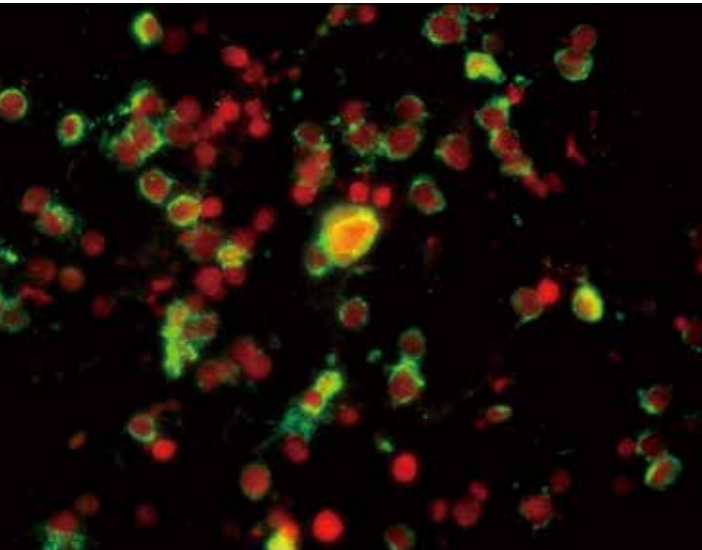
Operating buttons

SD card slot

Image output

Built-in multi-functional digital camera

4.0 mega pixels CMOS camera, presents high definition image, supports for multi-signal output (HDMI/USB/WIFI), with noninterference, is easy for image capture and store.



Maneuverable LED fluorescence unit

With adjusting knob for light intensity, is flexible for different smears.

One button for bright field and fluorescence switch, is easy to convert the transmitted and reflected light.

LED light source, dispense with preheat and cooling, is safe and pro-environment with long lifetime.



UV2 (long pass) LED unit, center wavelength 365nm, is applied for DAPI/Hoechst 33342.

B4 LED unit for professional TB test, center wavelength 455nm, is applied for AuramineO/wtGFP.

B1 (band pass) LED unit, center wavelength 470nm, is applied for GFP/FITC.

G1 (band pass) LED unit, center wavelength 560nm, is applied for TexasRED/Cy3.5.

Other LED units for more option.

EX31 Specification

| | |
|----------------------------|---|
| Optical system | Infinity chromatic aberration system |
| Viewing head | 30 degree binocular viewing head with fixed diopter, 360 degree rotatable, interpupillary distance: 50–75mm |
| | 30 degree trinocular viewing head with fixed diopter R:T= 8:2, 360 degree rotatable, interpupillary distance: 50–75mm |
| | 30 degree trinocular viewing head with fixed diopter R:T= 5:5, 360 degree rotatable, interpupillary distance: 50–75mm |
| Eyepiece | High eye-point wide field plan eyepiece PL10X/20mm, diopter adjustable, with/without reticle |
| | High eye-point wide field plan eyepiece PL10X/22mm, diopter adjustable, with/without reticle |
| Objective | Infinity plan achromatic objectives 2X/4X/10X/20X/40X/60X/100X |
| | Infinity plan phase contrast objectives 10X/20X/40X/100X |
| | Infinity plan Semi-Apo fluorescence objectives 4X/10X/20X/40X/100X |
| Nosepiece | Quintuple nosepiece (with memory function) |
| Focusing mechanism | Low-position coarse and fine coaxial focusing structure, with tension adjustment and upper limit mechanism |
| Stage | 150 × 140mm double-layer mechanical stage, moving range: 76X50mm, precision: 0.1mm (triangle track) |
| | 150 × 162mm double-layer rackless stage, moving range: 76X50mm, precision: 0.1mm (X axis linear rail) |
| Condenser | N.A.1.25 Kohler illumination condenser (with slots for phase contrast, dark field), with iris diagram, center adjustable |
| Transmitted illumination | 3W LED (3000K~5600K), light intensity continuously adjustable; LCD beside the frame to show the color temperature and the objective magnification |
| LED reflected illumination | UV2 LED fluorescence module, light intensity adjustable, center wavelength of LED is 385nm |
| | B4 LED fluorescence module for professional TB test, light intensity adjustable, center wavelength of LED is 455nm |
| | B1 LED fluorescence module, light intensity adjustable, center wavelength of LED is 470nm |
| | G1 LED fluorescence module, light intensity adjustable, center wavelength of LED is 560nm |
| Power adapter | External power adapter, input 100V–240V, output 15V2.67A |
| Camera adapter | 0.35X/0.5X/0.65X/1X focusing C-mount |
| Other accessories | Dark field unit, phase contrast unit, polarizer and analyzer |