

M1100-300



M1100-300 Binocular Microscope with 3.0mp Camera

Designed for both classroom and laboratory environments, the M1100-300 reflects a fresh design composed of a durable **aluminum die-cast stand**, **high throughput glass and optical coatings**, and **brass gears**, all of which position the M1100-300 to withstand the most demanding of user environments. And with lead-free optics and paints, the M1100-300 is a truly eco friendly solution.

M1100-300 Advantages:

- LP series **Semi-Plan optics** provide crisp images at all magnifications thanks to high-efficiency coatings and the highest quality of glass in the world.
- With the option of **Halogen** (2,000 hrs bulb life) or a bright **LED** (100,000 hours bulb life) illumination system, users are privileged with choice.
- Designed with the user in mind, the M1100-300 offers a **Captive Rotation** feature that enables users to easily and safely rotate the viewing head, making the system ideal for multi-user environments and easy storage.

M1100-300 Specifications:

Stand: Single mold stand with anti-rust materials. Extended base with hand rests for enhanced stability and comfort

Viewing Bodies: Rotating binocular tube, 45° inclined, 360° when locked in, interpupillary distance 54-74mm with fixed 3.1 mega pixel camera module iVu 3100

Eyepiece: Widefield focusable paired eyepiece WF 10x/18mm, with foldable eyeguard, lockable, antifungal coating

Nosepiece: Quadruple nosepiece (Ball-bearing type) with rubber grip

Objectives: LP series DIN Semi-Plan Achromatic objectives, antifungal:

4X/NA 0.10/WD 8.83mm,

10X/NA 0.25/WD 0.66mm,

40X (spring)/NA 0.65/WD 0.49mm

100X (spring loaded, oil)/NA 1.25/WD 0.14mm

Mechanical stage: Rectangular stage plate size 135 x 124mm, X/Y travel range 76mm x 50mm. Low drive movement controls, single specimen holder

Condenser: Sub stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with snap-in blue filter. Rack and pinion movements on metal guides

Focusing: Feather touch tension adjustment free co-axial coarse and fine focusing for ultra smooth movement. Fine focus graduation 0.3mm per rotation

Illumination: Halogen 6V-20W illumination with variable illumination control. Up to 2,000 hours of Halogen bulb life.

Electrical: Universal input 100V- 240V AC, 50/60Hz

Camera Specifications (MCD-3):

Sensor: ½" 3.0 Megapixel

Colour CMOS

Active area: 4.52 x 3.40mm

Sensor resolution: 2048 x 1536 pixels

Scan Mode: Progressive

Pixel Size: 2.2 x 2.2µm

Digitization: 12 bit RGB

Pixel Clock: 48 Mhz

Dynamic Range: 56 dB (measured at 10ms exposure)

Max. Exposure: 2S (Automatic Exp, WB, BL)

Frame Rate: 30 fps (640 x 480)

Image Resolution:

Standard: 2048 x 1536

Binning: 1024 x 768

640 x 480

Digital interface: USB 2.0

Optical connection: C-mount

Power consumption: approx. 1.9W

Ambient conditions: Temperature: -30°C... +70°C,

Humidity: up to 80%, not condensing

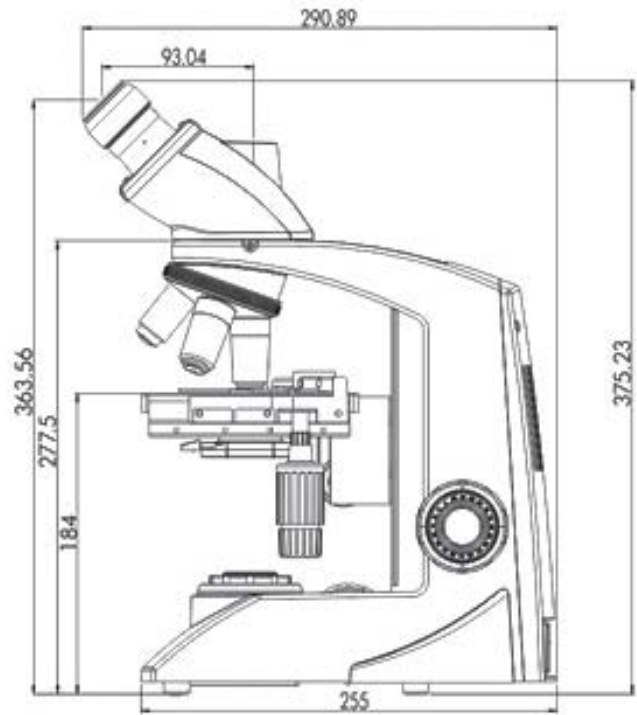
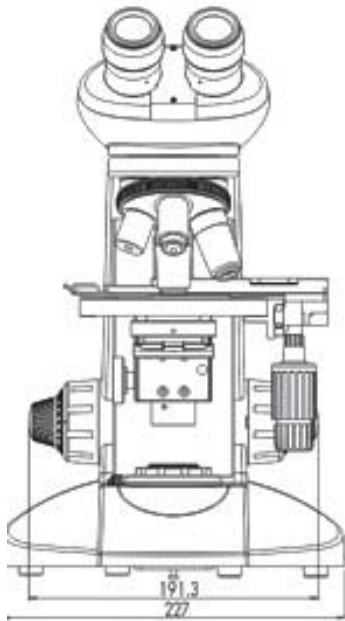
System requirements: Microsoft XP/Vista/7 OS, 3ghz CPU, 2gb RAM (if 1 gb, 64mb graphics required), USB 2.0

Package Contents: Packed in Styrofoam box, with operation manual, allen wrench, nylon dust cover, cleaning cloth, power cord, spare bulb, spare fuse and 10ml immersion oil type A

Warranty Information: 5 Year Parts, 1 Year Electronics, 2 Year Digital

Accessories (Optional): Pointers and Micrometer reticules, Phase, Polarizing and Dark Field Kits, Application Specific Objectives and Eyepieces, Cord Hanger Kit, Digital Camera (3mp) and Adapters

Dimensions (Units: mm)



System Configurations with Accessories:

