

Digital Compound Microscope

CxL DIGITAL
BINOCULAR / with
(3MP CAMERA)



9135400

Optical System: Antifungal Finite optical system

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

Viewing Body: Binocular tube, 45° inclined, 360° CAPTIVE ROTATION, Interpupillary distance 54-74mm with fixed 3.0 mega pixel camera module iVu 3100

Eyepieces: Wide Field focusable paired eyepieces WF 10x/18mm, with eyeguard, lockable, antifungal coatings

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

Objectives: LP series DIN Semi-Plan Achromatic objectives

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 76 x 50mm. Low drive movement controls. All brass gears.

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 self compensating tension adjustment co-axial coarse and fine focusing for ultra smooth movement. Weighted fine focus.

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

Electrical: Universal input 100V-240V AC

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Packed in styrofoam box, with operation manual, Allen wrench, dust cover, soft cleaning cloth, power cord, spare bulb and spare fuses

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Camera Specifications:

Sensor: 1/2" 3.0 MP Color CMOS Active area 4.52mm x 3.40mm

Sensor resolution: 2048 x 1536 pixels

Scan Mode: Progressive

Pixel Size: 2.2 μ m x 2.2 μ m

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:

2048 x 1536

1024 x 768

640 x 480

Digital interface: USB 2.0

Optical connection: C-Mount

Power consumption: approx. 0.19W

Ambient conditions: Temperature: -30°C to +70°C, Humidity: up to 80%, not Condensing

System requirements: Microsoft XP/Vista/7 OS, Dual core or higher CPU, 2GB RAM (if 1GB, recommend 64MB graphics card), USB 2.0

Software: PixelPro™ Image Capture Software for capturing still images and videos. Software provides an easy to navigate user interface designed for routine analysis. Control features include Auto White Balance and Auto Exposure adjustments, Picture quality adjustments, Annotations, Measurement functions & Calibration, Region of Interest selection, Archival of images in an easy to use gallery, and a variety of resolutions to view images at. Software is compatible with Windows XP/Vista/7 Operating Systems

Package: USB cable, software CD

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Same as P/N 9135400 but LED illumination with built-in rechargeable battery for cordless operation.