

Digital Microscope LD-LDM-D11

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Overview

Digital Microscope LD-LDM-D11 combines conventional optical microscopy with an integrated digital viewing and imaging platform. It is designed for laboratories and teaching environments that require direct on-screen specimen observation, image documentation and digital review. The integrated touchscreen interface and onboard operating system provide a self-contained working platform, while the trinocular optical arrangement supports conventional eyepiece viewing alongside digital image acquisition.

Features:

- 10.5-inch HD IPS touchscreen for direct viewing and operation
- 8.0-megapixel CMOS camera with 4K image acquisition capability
- Android 11 operating system with integrated S-Eye 2.0 software
- Coaxial coarse and fine focusing mechanism for controlled focusing
- Double-layer mechanical stage for accurate specimen positioning
- Adjustable 3 W LED illumination
- On-screen tools for image annotation, calibration and dimensional analysis
- HDMI, USB 3.0, LAN, Wi-Fi and Bluetooth connectivity

Applications:

Suitable for biological specimen observation and digital documentation in educational, clinical, pharmaceutical and research laboratories. It can also support microscopy demonstrations, sample comparison and measurement-based examination in quality-control and teaching environments.

Specifications:

Memory	2 GB RAM + 16 GB ROM
Eyepiece	WF10X/20 mm
Condenser	Abbe condenser, N.A. 1.25, centre adjustable
Nosepiece	Backward quadruple nosepiece
Pixel size	2.0 × 2.0 µm
Stage type	Double-layer mechanical stage
Connectivity	HDMI, USB 3.0, LAN, Wi-Fi and Bluetooth 5.0
Gross weight	11.5 kg
Illumination	3 W adjustable LED
Image format	JPEG
Power supply	DC 12 V / 2 A

Viewing head	Trinocular
Digital camera	8.0 MP CMOS, 1/1.8-inch sensor
Focusing range	24 mm
Objective type	High-contrast achromatic
Digital display	10.5-inch HD IPS touchscreen
Focusing system	Coaxial coarse and fine focusing
Video recording	1080P
Head inclination	30°
Operating system	Android 11
Stage dimensions	142 × 132 mm
Camera resolution	3840 × 2158 at 30 fps
Packing dimension	530 × 330 × 540 mm
External dimension	200 × 280 × 580 mm
Measurement software	S-Eye 2.0
Stage movement range	75 × 50 mm
Optical magnification	40X–1000X
Coarse focusing stroke	37.7 mm/rotation
Fine focusing division	0.002 mm
Interpupillary distance	48–75 mm
Objective magnification	4X, 10X, 40X (spring), 100X (oil, spring)
Digital magnification on LCD	121.2X–3030X