





PANTHERA L SERIES

With the launch of Panthera L and DL, Motic has reached a new level of technical innovation. This microscopes represent a perfect integration of hardware and software, bringing together world-class microscope features with an innovative built-in imaging system. Motic's CCIS[®] Infinity concept introduces Ultra Contrast (UC) optics, a new Plan Achromatic performance level for optimal color fidelity and contrast,

as well as a new automated light management system, the Motic LightTracer. The Panthera L and DL are new flagships in Motic's microscope range – a compact microscope platform with multiple imaging options for a computer-free digital microscopy experience. From education to medicine to research, the Panthera L and DL are a versatile microscope solution that will transform your daily work.



Smart Microscope ImagingOnDevice

HDMI (Panthera L), Wi-Fi, LAN and USB for external devices

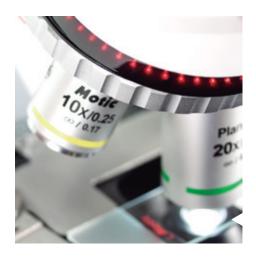
New Rackless & Compact nechanical stage Halogen / LED and LED color temperature interchangeability Motic LightTracer: Coded nosepiece & Digital light intensity knob





SEAMLESS INTEGRATION INTO YOUR WORKFLOW

Panthera L & DL are prepared to handle a broad spectrum of samples from different fields of natural sciences. It can be upgraded with Motic's universal turret condenser with all Phase rings and a Darkfield stop, or with Polarizer/Analyzer for birefringent samples. The Fluorescence method can be integrated into the daily workflow without the environmental risks associated with mercury bulb usage thanks to Motic's FLED Fluorescence modules.



ROBUST FUNCTIONALITY FOR A SMOOTH WORKFLOW

Motic's Panthera L & DL mechanical setup combines aesthetics and functionality. The patented compact rackless stage has an anti-scratch coating and houses a new dual-slide holder that allows one-handed operation. The standard eyepiece tubes feature a 25° viewing angle for maximum comfort. The interpupillary distance of 48-75mm can easily be adjusted, while the "butterfly" movement may increase the viewing height by 60mm to accommodate different physiques.



NEW UC OPTICS FOR ULTRA CONTRAST IMAGES

The entire series of new Plan UC Achromatic objectives, from 2X to 100X magnification, show significantly improved image contrast. The new 100X/0.8 "Dry objective" is especially favorable in environments where the time-consuming immersion procedure may be considered as too complicated. The new UC eyepieces with 22mm Field of View pair perfectly with this new objective generation, as they complement the improved field flatness of all Plan UC objectives.

SMART ILLUMINATION MANAGEMENT

DIGITAL MICROSCOPY

DIGITAL MICROSCOPY

The Panthera L offers a built-in 5MP Smart-CAM and an ImagingOnDevice system, creating a completely independent microscope. Take advatatge of the FullHD image quality by adding an HDMI touch screen. In case of no touch function, just add a wireless mouse to acces the full range of functions throught the embedded Pathera App. To work via Wi-Fi image transfer on a tablet or smartphone, simply download the free Panthera App. Scan the QR code on the head of the microscope, and the Wi-Fi enabled device is easily connected with the live image. The Panthera DL model carries a 4MP Wi-Fi camera with an additional Ethernet port. Up to 6 external Wi-Fi recipients can be supplied simultaneously with impressing live images.

The Motic LightTracer system combines a digital multi-function knob, an encoded nosepiece, and an LED feedback indicator. The multi-function knob is responsible for adjusting the light intensity, works with the coded nosepiece to memorize the illumination for each objective position, and manages the Low-Energy mode. The light source can easily be changed between a 30W Halogen bulb and 3W LEDs of different color temperatures, and a Full-Koehler setup for transmitted light is implemented.

SPECIFICATIONS

PANTHERA L SERIES





| Model | PANTHERA DL | PANTHERA L |
|---------------------------------------|--|---|
| Optical system | Colour Corrected Infinity Optical System (CCIS®) | |
| Observation Tube | Binocular Siedentopf type 25° inclined, 360° swiveling | |
| Interpupillary distance (mm) | 48-75 | |
| Eyepieces | UC-WF10X/22 | |
| Eyepieces diopter adjustment | +/- 4 dpt | |
| Nosepiece | Reversed quintuple, coded | |
| Objectives Plan UC Achromat (Pb free) | 4X/0.1 (WD 30.5mm), 10X/0.25 (WD 17.4mm), 40X/0.65/S (WD 0.6mm), 100X/1.25/S-Oil (WD 0.16mm) | |
| Objective mounting thread | W 4/5" x 1/36" (RMS standard) | |
| Stage | Compact and rackless stage | |
| Stage size (mm) | 185x145 | |
| Travel range (mm) | 75x50 | |
| Upper limit stop | Preset; adjustable | |
| Condenser | N.A. 0.90 / 1.25 Abbe condenser with slider slot | |
| Focus mechanism | Coaxial; tension adjustment | |
| Minimum fine focus precision (µm) | 2 | |
| Z-axis movement (mm) | 25 | |
| Filter holder | On top of the illuminator with fixing cap | |
| Illumination type | 3W LED module / 30W Halogen module, Koehler illumination | |
| Illumination interchangeability | Halogen / LED and LED color temperature interchangeability | |
| Illumination features | Motic LightTracer: Light memory, low-energy mode, nosepiece LED light intensity and mode indicator | |
| Digital Features | Built-in 4MP Wi-Fi camera | Built-in 5MP Smart CAM & ImagingOnDevice System |
| Connectivity | Wi-Fi & LAN | HDMI, Wi-Fi, LAN, USB 2.0 for external Devices (x2) |
| Power supply | 110-240V (CE) | |
| Dimensions (mm) | 282x210x394 | |
| Contrast techniques | | |
| Brightfield | Yes | |
| Phase contrast | Slider & Turret | |
| Simple Polarization | Yes | |
| Simple Darkfield | Slider & Turret | |
| LED Fluorescence | Yes - Intermediate module | |

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