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PANTHERA SERIES

THE SMART MICROSCOPE

PANTHERA L SERIES

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With the launch of Panthera L and DL, Motic has reached a new level of technical innovation. These 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.



PANTHERA L



Download the Panthera App to your tablet or smartphone and capture the QR code on the microscope to link the live image to your tablet instantly. View, capture, edit and share your microscope image.



Plug the Panthera L to an HD screen or projector and work with the Panthera built-in App with the help of a mouse.



Add accessories to your Panthera, like a keyboard, a mouse, or plug a USB memory stick to save your images.



Connect the microscope to a network for remote sharing or for working with your computer.



Digital light intensity knob

Capture instantly what you are viewing through the Panthera L.

Smart
Microscope
ImagingOnDevice

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

New Rackless
& Compact
mechanical 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

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.



DIGITAL MICROSCOPY IMPLEMENTED

The Panthera L offers a built-in 5MP Smart-CAM and an ImagingOnDevice system, creating a completely independent microscope. Take advantage of the FullHD image quality by adding an HDMI touch screen. In case of no touch function, just add a wireless mouse to access the full range of functions through the embedded Panthera 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 impressive live images.

SPECIFICATIONS

PANTHERA L SERIES



PANTHERA DL

PANTHERA L

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, USB 2.0 for external Devices (x1)	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	

Get in touch with your local ESBE representative for more information or visit esbe.com



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