

Motic®

MORE THAN MICROSCOPY



reddot award 2017
winner



PANTHERA

THE SMART MICROSCOPE

PANTHERA L

With the launch of Panthera L, Motic has reached a new level of technical innovation. This microscope represents 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 is the new flagship 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 is a versatile microscope solution that will transform your daily work.



QR-Link



Wi-Fi

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.



HDMI

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



USB

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



LAN

Connect it to a network to run a DigiClass, for remote sharing or for working with your computer.

Digital light intensity knob

Capture instantly what you are viewing through the microscope, just pressing the light intensity knob.



Smart
Microscope
ImagingOnDevice

HDMI, 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 WITH YOUR WORKFLOW

Panthera L is 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 incorporated 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 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 Panthera L 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 too complicated. The new UC eyepieces with 22mm FOV (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, a coded 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. In addition, the integrated SmartCAM captures images with a single tap on the knob. 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 AT YOUR FINGERTIPS

The Panthera L offers an intelligent solution with unmatched image sharpness and definition. It is a Smart Microscope with a built-in SmartCAM and an ImagingOnDevice system, creating a completely independent microscope. For interactive presentations and discussions, take advantage of the FullHD image quality by adding an HDMI touch screen monitor to your Panthera L. If the HDMI monitor has no touch function, just add a wireless mouse to access the full range of measuring, annotating, and comparing functions available 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 from the microscope.

SPECIFICATIONS

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	+/- 5 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 Smart CAM & ImagingOnDevice System (Panthera App embeded). 5 GB internal memory
Connectivity	HDMI, USB 2.0 for external Devices (x2), Wi-Fi, LAN
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

DISCOVER THE COMPLETE PANTHERA SERIES AT
www.moticpanthera.com

www.moticeurope.com

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