

**Motic®**

MORE THAN MICROSCOPY



**PANTHERA U**

DELIVERING AN EFFORTLESS LAB EXPERIENCE

# PANTHERA U

The upright microscope Panthera U introduces a new level of optical performance to natural science applications: a new Plan Achromatic performance level combining a complete series of UC objectives with UC eyepieces of 22mm Field of View. The new patented rackless stage houses a unique dual-slide holder. Illumination is provided by an interchangeable 3W LED light source in a

Fixed Koehler setup. The Motic LightTracer system with a built-in Low-Energy mode and an LED feedback indicator helps to optimize your workflow. Enhanced optics coupled with an intelligent illumination system - the Panthera U is a user-friendly microscope that delivers unmatched color fidelity and definition.



New Plan UC  
Achromat  
objectives

New Rackless  
& Compact  
mechanical stage

LED color  
temperature  
interchangeability

Motic LightTracer:  
Coded nosepiece  
& Digital light  
intensity knob

Integrated USB  
for camera power



#### SEAMLESS INTEGRATION WITH YOUR WORKFLOW

For maximum use of accessories, the Panthera U is deeply integrated into Motic's Upright microscope system. 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. With the Panthera U, it is now possible to incorporate the fluorescence method into the daily workflow without the environmental risks associated with mercury bulb usage.

Our **MOTICAM** range offers the choice between several imaging options. Besides the standard USB cameras, we offer solutions like the Moticam Full HD cameras, tablet solutions, and Wi-Fi cameras working with our free "MotiConnect" App.

Know more at [www.moticamseries.com](http://www.moticamseries.com)

#### 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.

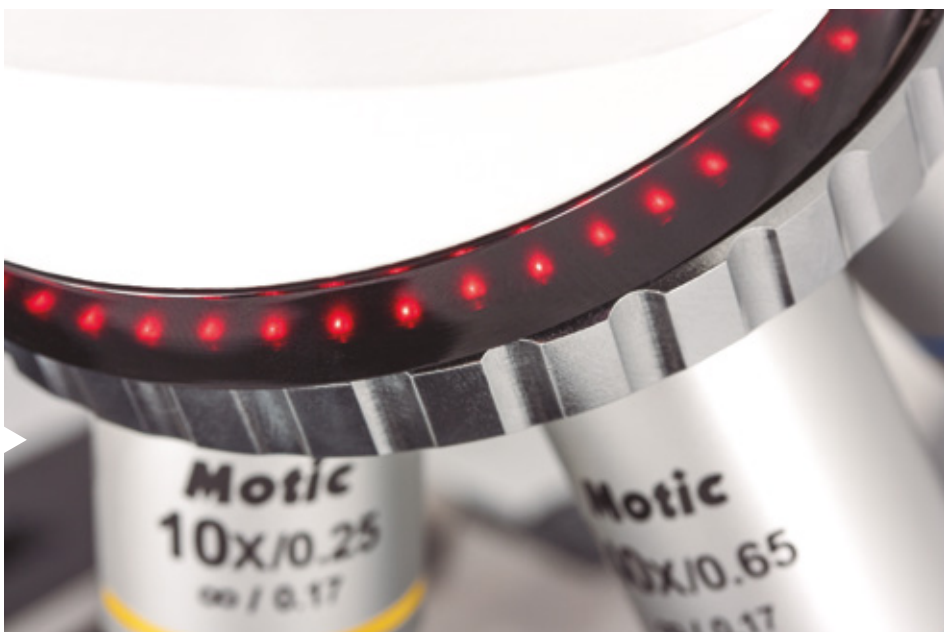


#### ROBUST FUNCTIONALITY FOR DEMANDING ENVIRONMENTS

Motic's Panthera U is specifically designed for rigorous laboratory environments. The patented compact rackless stage has an anti-scratch coating and a new dual-slide holder that allows one-handed operation. The Panthera U 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. The integrated power cord compartment and carrying handle are user-friendly features that ensure easy handling.

#### SMART ILLUMINATION MANAGEMENT

The Panthera U microscope features Motic's new intelligent illumination system, the Motic LightTracer. This system combines a digital multi-function knob, a coded nosepiece, and an LED feedback indicator. The automated light management is centralized in the digital multi-function knob. It is responsible for adjusting the light intensity, works with the coded nosepiece to memorize the illumination for each objective position, and activates the Sleep Mode. It also controls optional Epi-illuminators like the FLED modules. The 3W LED light source can easily be changed to different color temperatures (3500K/5500K).



## SPECIFICATIONS

### PANTHERA U



Optical system	Colour Corrected Infinity Optical System (CCIS®)
Observation system	Binocular/Trinocular Siedentopf type 25° inclined, 360° swiveling
Interpupillary distance (mm)	48-75mm
Trinocular light split	50/50 fixed
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
Illumination type	3W LED, Fixed Koehler
Illumination interchangeability	LED color temperature interchangeability
Illumination features	Motic LightTracer: Light memory, low-energy mode, nosepiece LED light intensity and mode indicator
Connectivity	USB for external camera power
Power supply	110-240V (CE)
Dimensions (mm)	282x210x394 (Binocular), 282x210x396 (Trinocular)
<b>Contrast techniques</b>	
Brightfield	Yes
Phase contrast	Slider & Turret
Simple Polarization	Yes
Simple Darkfield	Slider & Turret
LED Fluorescence	Yes - Intermediate module

DISCOVER ALL PANTHERA MODELS AT  
[www.moticpanthera.com](http://www.moticpanthera.com)

[www.moticeurope.com](http://www.moticeurope.com)

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