

**Motic**<sup>®</sup>

MORE THAN MICROSCOPY

**U**  
SERIES



**PANTHERA U** SERIES

DELIVERING AN EFFORTLESS LAB EXPERIENCE

# PANTHERA U SERIES

The upright microscopes Panthera U & KU introduce a new level of 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 (U)

or Full (KU) 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/KU models are a user-friendly microscopes that delivers unmatched color fidelity and definition.



New Plan UC  
Achromat  
objectives

New Rackless  
& Compact  
mechanical stage

ON  
/ LED color  
temperature  
interchangeability  
OFF

Motic LightTracer:  
Coded nosepiece  
& Digital light  
intensity knob

Dual-slide holder  
for one-handed  
operation



#### SEAMLESS INTEGRATION WITH YOUR WORKFLOW

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

#### 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/KU models are specifically designed for rough 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/KU 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.

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)*

#### SMART ILLUMINATION MANAGEMENT

The Panthera U/KU microscopes feature 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 SERIES



**PANTHERA U**

**PANTHERA KU**

<b>Model</b>	<b>PANTHERA U</b>	<b>PANTHERA KU</b>
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	+/- 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	
Illumination type	3W LED, Fixed Koehler	3W LED, Full 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 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	

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

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