

Motic®

MORE THAN MICROSCOPY

E
SERIES



PANTHERA E
SERIES

BASIC BIOLOGICAL MICROSCOPE
FOR SMALL LABS

PANTHERA E SERIES

Motic's microscope series Panthera E introduces a new quality and performance level to basic routine and scientific work. This microscope combines distinct improvements in image quality with new illumination features. The Panthera E is equipped with the redesigned SC Plan Achromatic Infinity optics. These objectives combined with N-WF widefield eyepieces with a 20mm Field of View deliver

unmatched image quality and definition. The Panthera E stand features a reversed 4-fold nosepiece and is equipped with a rackless stage, whereas the illumination is provided by an LED light source in a Fixed Koehler setup. Enhanced objective performance, long-lasting illumination, and a user-friendly design - the Panthera E is perfectly tailored for modern education and small lab environments.



360°
rotatable head
(storage saving
space)

Plan SC objectives

Quadruple
nosepiece

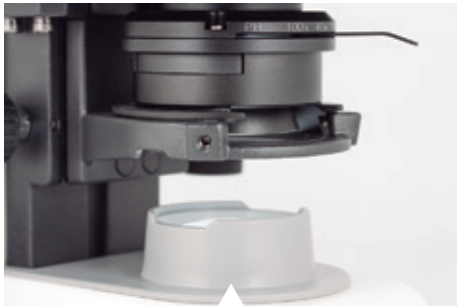
Rackless stage

Integrated USB
for camera power
& USB
for battery pack



ROBUST FUNCTIONALITY FOR DEMANDING ENVIRONMENTS

Motic's Panthera E features a rackless stage with a standard slide holder, as well as an upper limit stop, eliminating the risk of breaking the glass slide while focusing. The minimum increment of 2 microns in z-movement facilitates smooth focusing of samples under high magnifications. The standard eyepiece tubes can be adjusted to accommodate different physiques. In addition, all tubes are rotatable, a helpful space saving feature for storage.



EFFICIENT LED ILLUMINATION SETUP

The Panthera E is equipped with a low consumption LED light source in a Fixed Koehler setup without field diaphragm. The light intensity indicator displays the light intensity as a sequence of LEDs around the revolving nosepiece. With a USB port in the stand, Panthera E can connect to a power bank and function independently from the main power supply. The standard Abbe condenser with NA 0.9/1.25 with aperture diaphragm and slider slot is ready to carry sliders for Phase contrast and Darkfield.

NEW SC OBJECTIVES AND EYEPIECES

For Panthera E, Motic redesigned the CCIS® Infinity optics to create a series of new Plan SC Achromatic objectives. These lenses present a flat image for a 20mm Field of View with optimal color fidelity and contrast. The new 100X/0.8 “Dry objective” is especially favorable in environments where the time-consuming immersion procedure on a “normal” 100X objective is considered too difficult and complicated.



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



ADAPTABLE TO SAMPLE CHARACTERISTICS

If desired, Panthera E can be upgraded with accessories for different contrast methods: a Phase contrast slider solution for unstained samples from botany, zoology, and medicine, a Darkfield slider, and a POL contrast option for birefringent samples.

SPECIFICATIONS

PANTHERA E SERIES



Optical system	Colour Corrected Infinity Optical System (CCIS®)
Observation system	Binocular/Trinocular Siedentopf type 25° inclined, 360° rotatable (storage saving), 360° swivelling
Interpupillary distance (mm)	48-75mm
Trinocular light split	50/50 fixed
Eyepieces	N-WF10X/20
Eyepieces diopter adjustment	+/- 5 dpt
Nosepiece	Reversed quadruple
Objectives Plan SC	4X/0.1 (WD 15.5mm), 10X/0.25 (WD 17.4mm), 40X/0.65/S (WD 0.6mm), 100X/1.25/S-Oil (WD 0.14mm)
Objective mounting thread	W 4/5" x 1/36" (RMS standard)
Stage	Rackless stage
Stage size (mm)	140x135
Travel range (mm)	75X40
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	1W LED, Fixed Koehler
Illumination features	Nosepiece LED light intensity indicator
Connectivity	USB for external camera power & USB for battery pack
Power supply	110-240V (CE)
Dimensions (mm)	282x210x395 (Binocular), 282x210x396 (Trinocular)
Contrast techniques	
Brightfield	Yes
Phase contrast	Slider
Simple Polarization	Yes
Simple Darkfield	Slider
LED Fluorescence	Yes - Intermediate module

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Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress, without notice and without obligation.

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