

**Motic**<sup>®</sup>

MORE THAN MICROSCOPY



**BA210E**

BASIC TRANSMITTED LIGHT MICROSCOPE

# BA210E

Motic's BA210E is dedicated to give an answer on basic demands from educational and biomedical laboratory work. The upgraded EC Plan Achromatic objectives in our CCIS<sup>®</sup> Infinity Concept deliver a fully corrected intermediate image for crisp and clear results within a 20mm Field of View. The rackless stage enables a safe x/y scanning even for the unexperienced user. The 30W Halogen light source



OPTIONAL INTERMEDIATE  
Epi-LED S FLUORESCENCE  
MODULE



QUADRUPLE  
NOSEPIECE



EC PLAN  
ACHROMATIC  
OBJECTIVES



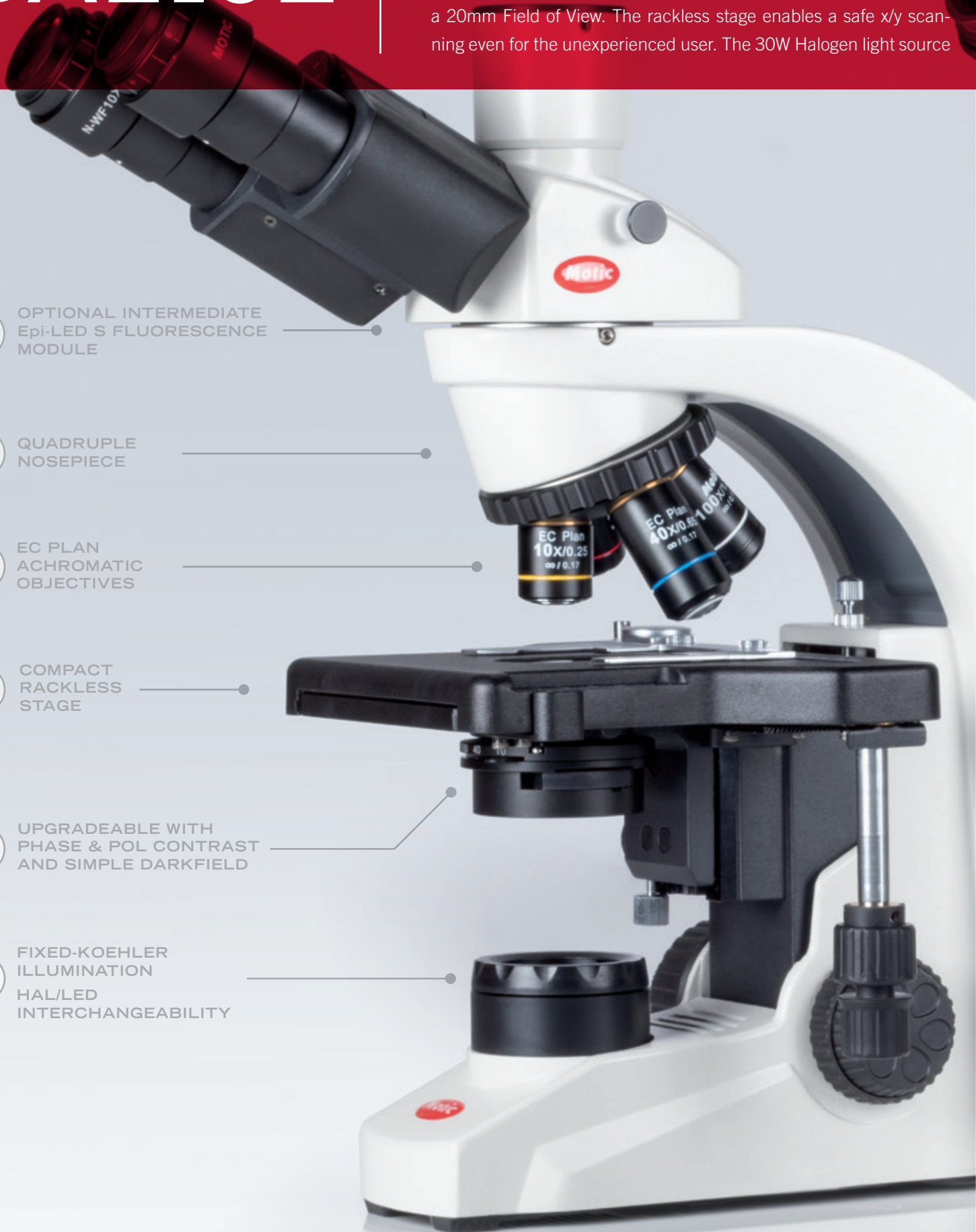
COMPACT  
RACKLESS  
STAGE



UPGRADEABLE WITH  
PHASE & POL CONTRAST  
AND SIMPLE DARKFIELD



FIXED-KOEHLER  
ILLUMINATION  
HAL/LED  
INTERCHANGEABILITY



in a Fixed-Koehler setup can simply be replaced by LEDs of different color temperatures. The BA210E is ready to be upgraded with Phase contrast, Polarization, Darkfield and even LED Fluorescence. This robust upright microscope brings professional image results to all intended applications.



#### EC PLAN OPTICS FOR CRISP AND CLEAR IMAGES

The complete series of EC Plan Achromatic objectives, from 4X to 100X magnification, is achieving an improved image contrast both for human eye and digital cameras through the photo port. Especially in Phase contrast, the optional objectives (positive & negative Phase) show a remarkable performance for a wide range of applications. The N-WF eyepieces start with the standard 10X/20 mm Field of View and provide a diopter adjustment (+/-5dpt) for both eyes, ready for the use of optional reticles.



#### A STUDENT PROOF CONCEPT FOR ROUGH USE

Motic's BA210E is designed for a demanding daily usage. The rackless stage allows a safe evaluation of samples without prominent gear rack. The standard eyepiece tubes feature a 30° viewing angle for maximum comfort, whereas the interpupillary distance of 55-75mm can easily be adjusted, following individual conditions. The trinocular tube option with a 100:0 / 20:80 light split allows the adaption of digital camera systems and the presentation of microscopic images to a larger public.



#### INTERCHANGEABLE HAL/LED ILLUMINATION

The BA210E microscope features an interchangeable illumination. It comes standard with a 30W Halogen illumination system in a Fixed Koehler setup, but the Halogen light source can easily be replaced by LED modules of different color temperatures. The importance of LED illumination as a safe and long-term light source has increased especially in teaching environments at the expense of Halogen bulbs, due to its long lifetime and reduced heat production. The high-quality condenser with NA 1.25 and aperture diaphragm guarantees the visualization of weakly or non-stained samples.



#### A MEMBER OF THE BA-MICROSCOPE LINE

The BA210E is an integral part of Motic's BA microscope concept. An upgrade with Phase contrast (positive & negative), Darkfield, Polarization and even LED Fluorescence can easily be performed. The BA210E exceeds the limits of a basic upright microscope, allowing to use contrast methods for specific application fields even in teaching environments with limited resources.



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)



# SPECIFICATIONS

BA210E



**Model**

**BA210E Binocular**

**BA210E Trinocular**

Optical System	Colour Corrected Infinity Optical System (CCIS®)	
Observation tube	Binocular head, Siedentopf type	Trinocular head, Siedentopf type
Interpupillary distance	55-75mm	
Trinocular light split	-	100:0/20:80
Inclination	30° inclined, 360° rotating	
Eyepieces	N-WF10X/20mm with diopter adjustment, +/- 5 diopter	
Nosepiece	Reversed quadruple revolving nosepiece	
Objective classification	Infinity Corrected CCIS® EC Plan Achromat, DIN 45mm	
Objectives	4X/0.10 (WD 15.9mm), 10X/0.25 (WD 17.4mm), 40X/0.65/S (WD 0.5mm), 100X/1.25/S-Oil (WD 0.15mm)	
Objective mounting thread	W 4/5" x 1/36" (RMS standard)	
Stage	Rackless low position coaxial mechanical stage with sample holder	
Stage size	150x150mm	
Mechanical stage X&Y range	80x30mm	
Upper limit stop	Upper limit stop preset but adjustable	
Condenser	Focusable Abbe Condenser N.A. 1.25 with iris diaphragm and slot for contrast sliders	
Focus mechanism	Coaxial coarse and fine focusing system with tension adjustment	
Fine Focus precision	2 µm minimum increment	
Z-axis movement	20mm	
Filter holder	On top of the illuminator with fixing cap	
Illumination	Interchangeable 6V/30W Quartz halogen or 3W LED illumination with intensity control	
Transformer	Internal	
Power supply	100-240V (CE)	
Accessories included	Blue filter, immersion oil 5ml, power cord, cord hanger, dustcover, allen key, thumb screw and spare fuse	
Dimensions	360x220x398mm	
Weight	7,2kg	7,4kg
<b>Contrast techniques</b>		
Brightfield	Yes	
Phase contrast	Slider	
Simple Polarization	Yes	
Simple Darkfield	Slider	
Fluorescence	LED	

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

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