

**Motic®**

30<sup>+</sup>  
YEARS



# BA210

BASIC BIOLOGICAL MICROSCOPE

# BA210

Motic's BA210 is designed for both educational and teaching environments from basic life sciences to medical applications. Through the well-known Motic Infinity Optical concept (CCIS®) as a basis for the upgraded EC Plan Achromatic objectives, the BA210 delivers a fully corrected intermediate image for crisp and clear visual and digital results in a 20mm Field of View. The 3W LED light source



QUADRUPLE NOSEPIECE



EC PLAN ACHROMATIC OBJECTIVES



COMPACT MECHANICAL STAGE



UPGRADEABLE WITH PHASE & POL CONTRAST AND SIMPLE DARK FIELD



FIXED-KOEHLER LED ILLUMINATION



in a Fixed-Koehler setup gives adequate power resources for upgrading the microscope with contrast methods like Phase contrast, Polarization or Darkfield. The Motic BA210 is a robust student instrument that brings professional, repeatable image results from all intended applications.



#### A STUDENT PROOF CONCEPT FOR ROUGH USE

Motic's BA210 is designed for demanding educational environments. The hard-coated stage allows a safe and durable evaluation of diverse samples. The BA210 standard eyepiece tubes feature a 30° viewing angle for maximum comfort. The interpupillary distance of 55-75mm can easily be adjusted, following individual conditions. The trinocular tube option with a 20/80 light split if activated allows the adaption of digital camera systems and the presentation of microscopic images to a larger public.



#### EC PLAN OPTICS FOR RELIABLE IMAGE RESULTS

The complete series of EC Plan Achromatic objectives, from 4X to 100X magnification, is targeting an improved image contrast both for human eye and digital camera sensor through the photo port. Especially in Phase contrast, the optional objectives (positive & negative Phase) show a remarkable diversity 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.



#### LED ILLUMINATION

The BA210 microscope features a well-evaluated 3W LED illumination system in a Fixed Koehler setup. The importance of LEDs as safe and long-term illumination sources has increased especially in teaching environments as lifetime and reduced heat production are superior to Halogen bulbs. For field work without mains supply, an optional mirror can be attached. A high-quality condenser with NA 1.25 and aperture diaphragm is implemented for visualization of weakly or non-stained samples.



#### INTEGRATED IN MOTIC'S SERIES OF UPRIGHT MICROSCOPES

For further use of optional accessories, the BA210 is integrated into Motic's Upright microscope system. An upgrade with Phase contrast (positive and negative) in a slider solution, simple Darkfield as well as Polarization contrast for the detection of birefringence can easily be performed. The BA210 easily exceeds the limits of a basic upright microscope, allowing advanced contrast methods for teaching environments within a small budget.



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

BA210



### Model

**BA210 Binocular**

**BA210 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	
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	Built-in low position coaxial mechanical stage with sample holder	
Stage size	140x135mm	
Mechanical stage X&Y range	76x50mm	
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	25mm	
Filter holder	On top of the illuminator with fixing cap	
Illumination	3W LED illumination with intensity control	
Transformer	Internal	
Power supply	100-240V (CE)	
Accessories included	Immersion oil 5ml, power cord, cord hanger, dust cover, allen key, thumb screw and spare fuse	
Dimensions	360x190x395mm	
Weight	7,2kg	7,4kg
<b>Contrast techniques</b>		
Brightfield	Yes	
Phase contrast	Slider	
Simple Polarization	Yes	
Simple Darkfield	Slider	

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