

**Motic®**

30<sup>+</sup>  
YEARS



**BA310**

ADVANCED BIOLOGICAL MICROSCOPE

# BA310

Motic's BA310 is designed specifically for the rigors of daily routine work in universities, clinics and laboratories. Using Motic's Infinity Optical concept (CCIS®) as a basis for the upgraded EC Plan Achromatic objectives, this model's Full Koehler configuration provides maximum illumination quality for even the most demanding samples. The fully corrected intermediate image delivers perfect visual and



UPGRADEABLE WITH  
MULTI-VIEWING DEVICES



QUINTUPLE  
NOSEPIECE



EC PLAN ACHROMATIC  
OBJECTIVES



COMPACT  
MECHANICAL STAGE



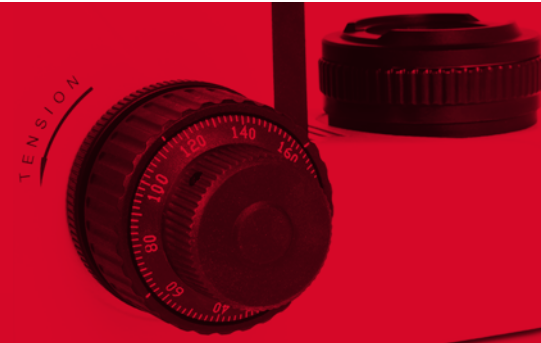
CONTRAST METHODS:  
PHASE, POL, DARKFIELD



3W LED LIGHT SOURCE  
IN A FULL-KOEHLER SETUP



digital results in a 20mm Field of View. The 3W LED light source gives adequate power resources for upgrading the microscope with contrast methods like Phase contrast, Polarization, Darkfield or even Multi-Viewing devices. The Motic BA310 offers a long-term functionality to all user levels in a variety of biomedical applications.



#### FOR ROUGH USE IN DAILY ROUTINE WORK

Motic's BA310 is designed for a rough work in daily routine. The hard-coated stage allows a safe and precise evaluation of diverse samples. The BA310 standard eyepiece tubes feature a 30° viewing angle for maximum comfort. The interpupillary distance of 48-75mm can easily be adjusted, following the demands of multiple users. 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 lab group.



#### 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 BA310 microscope features a 3W LED light source implemented in a Full-Koehler setup. The importance of LEDs as safe and long-term illumination sources has increased especially in teaching environments as lifetime and reduced heat are superior to Halogen bulbs. The standard condenser with NA 1.25 and aperture diaphragm for visualization of non-stained samples is part of the basic equipment. It can be replaced by an ergonomic turret condenser with all necessary Phase rings plus Darkfield stop.



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

For further use of optional accessories, the BA310 is integrated into Motic's Upright microscope system. Phase contrast (positive and negative) is possible with slider and turret condenser; simple Darkfield as well as Polarization contrast can easily be performed. Multi-Viewing devices allow a traditional teaching situation with maximum knowledge transfer especially in pathology and histology. The BA310 offers a long-term functionality in university, clinic and lab.



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

BA310



**Model**

**BA310 Binocular**

**BA310 Trinocular**

Optical System	Colour Corrected Infinity Optical System (CCIS®)	
Observation tube	Binocular head, 360° Swiveling	Trinocular head, 360° Swiveling
Interpupillary distance	48-75mm	
Trinocular light split	-	100:0/20:80 (optional 100:0/0:100)
Inclination	30° inclined, 360° rotating	
Eyepieces	N-WF10X/20mm with diopter adjustment, +/- 5 diopter	
Nosepiece	Reversed quintuple revolving nosepiece	
Objective classification	Infinity Corrected CCIS® EC Plan Achromatic 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	Built-in low position coaxial mechanical stage with tension adjustment and 2-sample holder	
Stage size	175x140mm	
Mechanical stage X&Y range	76x50mm	
Upper limit stop	Upper limit stop preset but adjustable	
Condenser	Focusable Abbe Condenser N.A. 0.90/1.25 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	3W LED Koehler illumination with intensity control	
Transformer	Internal	
Power supply	100-240V (CE)	
Accessories included	Immersion oil 5ml, power cord, cord hanger, dustcover, allen key, thumb screw and spare fuse	
Dimensions	400x220x400mm	
Weight	8,6kg	8,8kg
<b>Contrast techniques</b>		
Brightfield	Yes	
Phase contrast	Slider & Turret	
Simple Polarization	Yes	
Simple Darkfield	Slider & Turret	

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

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