

**Motic®**

MORE THAN MICROSCOPY



# BA410E

RESEARCH MICROSCOPE PLATFORM

# BA410E

Motic's BA410E is a professional microscope platform, ready to cover multiple applications from all biomedical research environments. A Koehler illumination with 50/100W Halogen light source is designed to support the performance of the optional high-level CCIS® Plan Fluor and Plan Apochromat objectives. It further gives adequate power resources for upgrading the microscope with Phase contrast



UPGRADEABLE WITH  
MULTI-VIEWING DEVICES



OPTIONAL HBO  
FLUORESCENCE



OPTIONAL PLAN  
APOCHROMATIC  
OBJECTIVES



COMPACT  
RACKLESS  
STAGE WITH  
CERAMIC INSERT



CONTRAST  
METHODS: PHASE  
CONTRAST,  
POLARIZING &  
DARKFIELD



POWERFUL 50/100W  
HALOGEN LIGHT  
SOURCE



(positive & negative), Polarization contrast with compensator I. Order RED, Darkfield and Multi-Viewing devices. HBO Fluorescence can easily be added. The rackless stage with a ceramic stage insert allows a safe positioning and fast throughput of slides for a long lifetime. The BA410E is a flexible microscope platform with multiple options to configure a workstation which perfectly suits individual demands.

TENSION



#### NEW OPTICS FOR MULTIPLE DEMANDS

The BA410E optics starts with the standard EC-H Plan Achromat series from 2X to 100X magnification. The respective Phase contrast objectives (positive & negative version) are derived from these Brightfield lenses. The BA410E series offers two more sets of high-performance objectives. The Plan Fluors have got a perfect balance between contrast and transmission, while the Plan Achromatic lenses are driven to a maximum resolution power and color fidelity for histology and pathology. The N-WF eyepieces come with a standard 10X/22 mm Field of View and provide a diopter adjustment (+/-5dpt) for both eyes, ready for the use of optional reticles.



#### FLEXIBILITY IN DAILY ROUTINE WORK

Motic's BA410E is designed for a flexible operation in daily work. The rackless stage with ceramic insert gives a long-time stability to sample positioning, enabling a fast scanning. The standard eyepiece tubes feature a 30° viewing angle for maximum comfort, and the interpupillary distance of 48-75mm can easily be adjusted, following individual conditions. A selection of trinocular tubes offer multiple light split options for digital camera systems and the presentation of microscopic images to a larger lab group.



#### A CLEVER AND POWERFUL LIGHT MANAGEMENT

The BA410E microscope features a 50W/100W Halogen illumination system in a Full Koehler setup. The 50W Halogen stand works fine with light consuming contrast methods (DF, POL), while the 100W stand is recommended for multi-viewing setups. The light memory function of the BA410E is based on an encoded 6-fold nosepiece which memorizes the light intensity setting for each nosepiece position. A built-in IR-sensor activates the Auto ON-OFF function in case the microscope is left. A high-quality condenser with NA 1.25 and aperture diaphragm is implemented for visualization of weakly or non-stained samples.



#### MOTIC'S BA LINE FLAGSHIP

The BA410E is the flagship of Motic's BA microscope line. The large and flexible stand concept allows to upgrade the microscope to a variability of powerful application solutions. Phase contrast (positive and negative version), Polarization contrast with compensator RED I. Order usage and Darkfield is an easy task. Multi-Viewing devices up to a 5-head solution can be added to teach in the traditional way in histology and pathology. An upgrade with Fluorescence is possible by implementing a 4-position cube slider and a 100W HBO lamp house. The BA410E offers maximum flexibility within the BA line: a true leader in performance.



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

BA410E



Model	BA410E Bino 50W	BA410E Trino 50W	BA410E Bino 100W	BA410E Trino 100W
Optical system	Colour Corrected Infinity Optical System (CCIS®)			
Observation tube	Binocular / Trinocular head, Siedentopf type			
Inclination	30° inclined, 360° rotating			
Trinocular light split	-	100:0/20:80 (optional 100:0/0:100)	-	100:0/20:80 (optional 100:0/0:100)
Interpupillary distance	50-75mm			
Diopter adjustment	On both eyepieces, +/- 5 diopter			
Eyepieces	Widefield N-WF10X/22mm with diopter adjustment			
Nosepiece	Reversed sextuple			
Objective classification	CCIS® EC-H Plan Achromatic, 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"x1/36" (RMS standard)			
Stand type	Upright			
Stage	Mechanical stage with built-in low position rackless coaxial stage control, ceramic insert and sample holder			
Stage size	180x170mm			
Travel range X&Y	80x55mm			
Condenser	Focusable and centerable Swing-out Abbe condenser N.A. 0.90/0.13			
Diaphragm	Iris diaphragm			
Focus mechanism	Coaxial coarse and fine focusing system with tension adjustment			
Fine focus precision	1µm			
Focusing stroke	27mm			
Upper limit stop	Upper limit stop preset but adjustable			
Filter holder	On top of the illuminator with fixing cap			
Transmitted illumination	Koehler Quartz Halogen 12V/50W with intensity control		Koehler Quartz Halogen 12V/100W with intensity control	
Illumination interchangeability	Quartz halogen 12V/50W or LED 3W		-	
Illumination features	Auto-OFF and Light Memory function. External lamphouse.			
Transformer	Internal		External	
Power supply	100-240V (CE)			
Accessories included	Dust cover, power cord, Allen key, immersion oil (5ml), blue filter, spare fuse, arm rest			
Dimensions LxWxH	550x242x435mm			
Net weight	14.2kg			
Contrast techniques				
Brightfield	Brightfield			
Phase contrast / Darkfield	Optional slider/turret			
Polarization	Optional sliders/add on			
Fluorescence	Optional HBO			

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

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