

Motic[®]

MORE THAN MICROSCOPY



TENSION



AE2000

ROUTINE LIVE CELL MICROSCOPE

AE2000

The AE2000 is Motic's entry model of Inverted microscopes. It is the perfect instrument for routine microbiology in clinical and pharmaceutical laboratories, also offering best options for university teaching. The LWD Plan Achromatic objectives with a clever Phase contrast concept deliver a remarkable image quality. 10X and 20X Phase Contrast objectives are an integral part of all standard packages, while the



optional 4X Phase objective is dedicated to fast screening. A 40X Phase objective is available too. The AE2000 stand carries a quadruple nosepiece with a precise click stop. Rich illumination power is given by the 30W Halogen light source in a Fixed-Koehler setup, simply interchangeable with 3W LED modules of different color temperatures. The Auto ON/OFF function is a contribution to workplace safety.



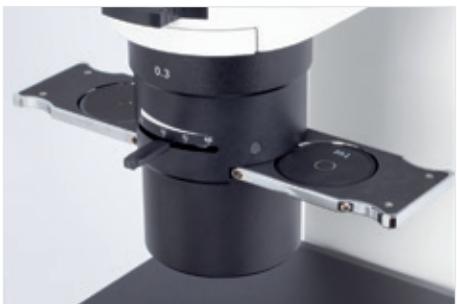
HAL/LED ILLUMINATION

The AE2000 microscope features a 30W Halogen illumination system in a "Fixed Koehler" setup. The Halogen light source can easily be replaced by LED modules of different color temperatures. 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. The LWD condenser N.A.0.3 with W.D.72mm allows large flasks for cell culture examination.



FOR ROUGH USE IN DAILY ROUTINE WORK

Motic's AE2000 is designed for a rough work in microbiology. The fixed stage plate with glass insert allows a quick overview and easy change of magnification. The switch from Brightfield (BF) to Phase Contrast is done by a simple push of the Phase ring slider. As one Phase ring (Ph1) corresponds to the Phase objectives Ph10X/Ph20X/Ph40X, no need to change the slider position when changing the respective objectives. Cell organelles, cell compartments and boundaries can easily be seen. After work, the Auto ON/OFF mode ensures an automatic switch-off if the instrument is left by the user: a contribution to lab safety and energy saving.



BASIS OF MOTIC'S SERIES OF INVERTED MICROSCOPES

Motic's AE2000 models display functionality in all mechanical aspects. The fixed stage plate carries a glass insert for quick overview and comfortable change of objectives. An optional x/y mechanical stage for a smoother sample examination under high magnifications is available. Focusing is done by a 4-fold nosepiece. With a fine focus step size of 2 microns a smooth drive through cell cultures and water samples is easily performed. Elegant and robust, the microscope stand follows all needs for an intense daily use.



LWD PLAN ACHROMATIC OPTICS FOR FAST IMAGE RESULTS

The LWD Plan Achromatic objectives from 4X to 40X magnification both in Brightfield and Phase contrast version allow to work with thick cell cultures and water samples. An improved image contrast both for human eye and digital camera sensor through the photo port (beam split 100:0 / 20:80) is achieved. The AE2000 eyepiece tubes allow an individual seating position as the "butterfly" mode may increase the viewing height by 60mm. A fatigue-free work is guaranteed by a viewing angle of 45° and an interpupillary distance of 48-75mm. 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.



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 "MoticConnect" App.

Know more at www.moticamseries.com

SPECIFICATIONS

AE2000



Model	AE2000 Binocular	AE2000 Trinocular
Optical system	Colour Corrected Infinity Optical System (CCIS®)	
Observation tube	Binocular head, Siedentopf type, 360° swiveling	Trinocular head, Siedentopf type, 360° swiveling
Inclination		45° inclined
Trinocular light split	-	100:0/20:80
Interpupillary distance		48-75mm
Diopter adjustment		On both eyepieces, +/- 5 diopter
Eyepieces		Widefield N-WF10X/20mm with diopter adjustment
Nosepiece		Left side facing quadruple
Objective classification		CCIS® Plan Achromatic, DIN
Objectives	4X/0.10 (WD 12.6mm), PH10X/0.25 (WD 4.1mm), LWD PH20X/0.30 (WD 4.7mm), LWD 40X/0.50 (WD 3.0mm)	
Objective mounting thread		W 4/5"x1/36" (RMS standard)
Stand type		Inverted
Stage		Plain stage with metal and glass stage inserts
Stage size		200x239mm
Condenser		ELWD condenser N.A. 0.30 (WD = 72mm) with filter holder
Diaphragm		Iris diaphragm
Focus mechanism		Coaxial coarse and fine focusing system with tension adjustment
Fine focus precision		2µm
Focusing stroke		8mm
Free working distance		Working distance without condenser 184mm
Transmitted illumination		Quartz Halogen 6V/30W with intensity control
Illumination interchangeability		Quartz halogen 6V/30W or LED 3W
Illumination features		Auto on/off
Transformer		External
Power supply		100-240V (CE)
Accessories included		Dust cover, power cord, blue, green and neutral density filters, phase ring Ph1, centering telescope, centering keys
Dimensions LxWxH		556x218x496mm
Net weight		12,2kg
Contrast techniques		
Brightfield		Brightfield, phase contrast
Phase contrast		Slider

www.moticeurope.com

WETZLAR, GERMANY

SALES OFFICE

Christian-Kremp-Straße 11, 35578 Wetzlar, Germany
T. +49 6441 21001 0 | Fax: +49-6441-210 0122

BARCELONA, SPAIN

SALES OFFICE & EUROPEAN DISTRIBUTION CENTRE

C. Les Corts 12, Pol. Ind. Les Corts 08349 Cabrera de Mar, Barcelona, Spain
T. +34 93 756 62 86 | Fax: +34 93 756 62 87