Motic®

MORE THAN MICROSCOPY

AE2000

ROUTINE LIVE CELL MICROSCOPE

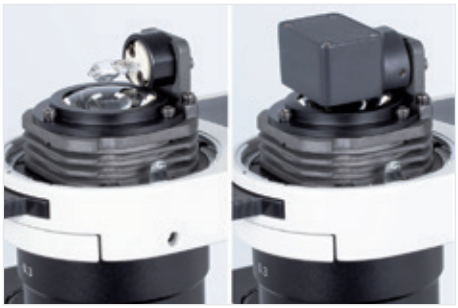
AE2000

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.

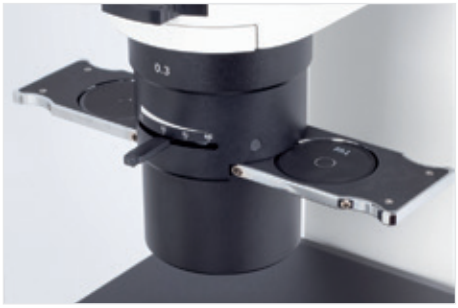
HAL/LED ILLUMINATION

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.



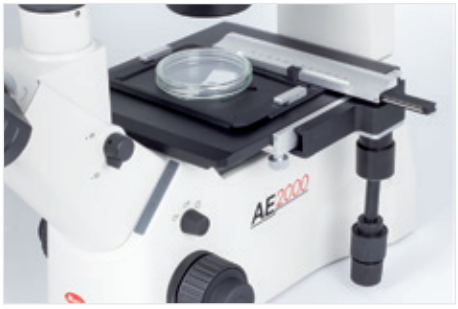
FOR ROUGH USE IN DAILY ROUTINE WORK

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.

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	556x218x496m	
Net weight	12,2kg	
Contrast techniques		
Brightfield	Brightfield, phase contrast	
Phase contrast	Slider	

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