

Motic®

MORE THAN MICROSCOPY



AE2000 DIGITAL

DIGITAL TRANSMITTED LIGHT INVERTED
MICROSCOPE FOR CELL CULTURE



SPECIFICATIONS

AE2000 Digital Transmitted Light Microscope

Optical system	Color Corrected Infinity Optical System (CCIS®)
Observation tube	Trinocular head, Siedentopf type, Swivelling 360° with 45° inclination
Trinocular light split	100:0/20:80
Interpupillary distance	48-75mm
Eyepieces	Widefield N-WF 10X/22mm with +/-5 diopter adjustment
Nosepiece	Quadruple, side orientated
Plan Achromatic Objectives	4X/0.10 (WD 12.6mm), Ph 10X/0.25 (WD 4.1mm), LWD Ph 20X/0.30 (WD 4.7mm)
Objective mounting thread	W 4/5" X 1/36" (RMS standard)
Phase ring	Ph1 - universal phase ring from 10X up to 40X
Stage	Plain stage with metal and glass stage inserts (200x239mm)
Attachable x/y stage with inserts	Universal attachable mechanical stage with well plate holders (128x86mm)
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
Contrast method	Transmitted light (brightfield and phase contrast)
Transmitted illumination	LED 3W 6000K standard with Halogen
Illumination interchangeability	Quartz Halogen 6V/30W or LED 3W
Illumination features	Auto on/off
Transformer	External
Power supply	100-240V (CE)
Filters	Blue, green and neutral density filters
Petri dish holder	35mm, 54mm and 65mm
Camera	Moticam BMH 4000X
Sensor size	1/2.8"
Image output	HDMI, UXC, WIFI 5
Capture resolution	8MP
Scan mode	Progressive
Shutter mode	Rolling Shutter
Lens mount	C-Mount
Max. frames per second (fps*)	HDMI & USB: (4K) 30fps @ 3840x2160 WIFI: 25fps @ 1920x1080, 12fps @ 3840x2160
Image capture	JPEG/TIFF format with 4K (3840x2160) resolution in SD card
Video record	4K (30fps @ 3840x2160) H264/H265 encoded MP4 file in SD card
Screen	LCD 11.6" native 1920x1080 pixels Full HD screen
Software	Motic Image Plus 3.1 for Windows/ Mac OS

*frames per second under optimal illumination conditions

Motic®

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Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress, without notice and without obligation

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