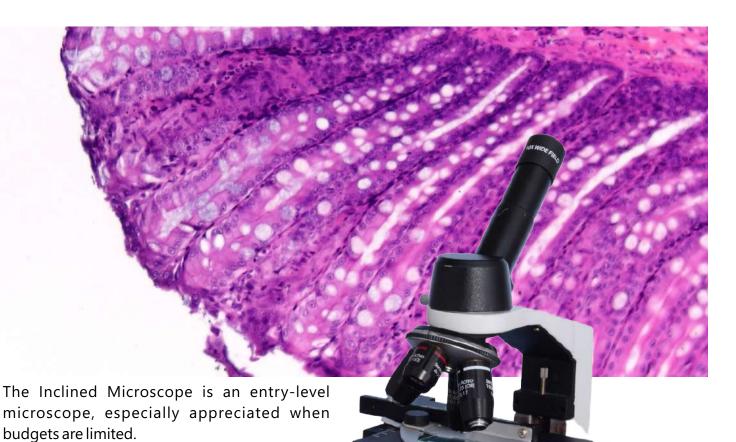


ESAWMICROSCOPE



Making Science Easier

INCLINED MICROSCOPES



All models with an integrated mechanical stage are supplied with adjustable ABBE condenser. All models are equipped with achromatic objectives. They are supplied with rechargeable batter (LEDLight)

battery LED Light.



Ergonomically and Aesthetically Designed



Wide Range of Eye-Pieces 10x WF and 25x WF



Monocular model IM-01



Semi Plan Achro Objectives



Quadruple Brass Nose Piece



Entry-level microscopes

• Mono, bino, trino and digital models

Revolving nosepiece

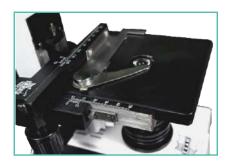
• Integrated X-Y mechanical stage

• LED Illumination with Battery Backup

• Ergonomic carrying grip



Binocular head BM-01



Stable Clipped Slide Holder



Battery Backup for

Trinocular head TM-01

irinocular ne	ead IMI-UI	LED Light
VIEWING	360° ROTATABLE & 45° INCLINED HEAD HAVING HARD COATED PRISM & GRADUATED DIOPTER SETTING FOR EYE-PIEIM SERIES - MONOCULAR; BM SERIES -BINOCULAR; TM SERIES	T
MAIN BODY	ESAW ERGONOMICALLY DESIGNED, ALUMINIUM DIA CASTED S	STURDY BODY.
OBJECTIVE	ANTI-FUNGAL & ANTI REFLECTION COATED 4X, 10X 40X & 100 ACHRO DIN OBJECTIVE, WITH GREAT DESIGN.	OX OIL IMMERSION SEMI-PLAN
FOCUSING	SEPARATE COARSE & HIGHLY SENSITIVE GRADUATED FINE FOO	CUSSING KNOBS.
LIGHT SOURCE	HIGH QUALITY LED ILLUMINATION & SMPS BASED 100V-220V	WIDE VOLTAGE RANGE.
EYE-PIECES	ANTI-FUNGAL & ANTI -REFLECTION COATED 10X WIDE-FIELD ECONOMICAL KIT ONLY INCLUDES 10X HUYGENIAN EYEPIECE	
STAGE	GRADUATED RECTANGULAR MADE MECHANICAL STAGE WITH	CO-AXIAL MOVEMENT.
NOSEPIECE	OUTWARD QUADRUPLE BRASS MADE NOSEPIECE WITH POSIT	IVE CLICKS.
MAGNIFICATION SETTING	6 MAGNIFICATION SETTING: 40X, 100X, 250X, 400X, 1000X & 2500X	
CONDENSER	ALUMINIUM MADE ABBE 1.25 NA TYPE CONDENSER WITH CO IRIS DIAPHRAGM & SWING IN-SWING OUT FILTER HOLDER.	PPER
PACKING & ACCESSORIES	IN BOX CONTENT-MAIN BODY, VIEWING HEAD, 4 OBJECTIVES, CLEANING CLOTH, IMMERSION OIL, POWER CABLE WITH 50 BL SLIPS. PACKED IN STYROFOAM BOX & CARD BOARD BOX WITH	LANK SLIDES & COVER-

ORDERING INFORMATION

Description	Model Number
Monocular Inclined Microscope	IM-01
Binocular Inclined Microscope	BM-01
Trinocular Inclined Microscope	TM-01

DIGITAL TRINOCULAR MICROSCOPE WITH MD SERIES CAMERA



Inclined Microscope with MD Series Camera Setup



ORDERING INFORMATION

Description	Model Number
Trinocular Microscope with MD-130 (1.3MP CMOS Camera)	TM-1.3
Trinocular Microscope with MD-300 (3MP CMOS Camera)	TM-3.0
Trinocular Microscope with MD-500 (5MP CMOS Camera)	TM-5.0



MD Series Camera

MD130

Digital imaging module: Wider dynamic range 1.3MP imaging module; Imaging software: Future Win Joe microscopic imaging program; Optical matching: Built-in relay lens and field lens; Camera house: compact and light-weight round-shaped shell.

MD300

Digital imaging module: YUY2 and MJPG of image format 2048*1536 USB imaging module; Imaging software: Future Win Joe microscopic imaging program; Optical matching: Built-in relay lens and field lens; Camera house: compact and light-weight round-shaped shell.

MD500

Digital imaging module: YUY2 and MJPG of image format 2592*1944 USB imaging module; Imaging software: Future Win Joe microscopic imaging program; Optical matching: Built-in relay lens and field lens; Camera house: compact and light-weight round-shaped shell.



MD-130

MD-300

MD-500

MODEL	MD130	MD300	MD500	
CAPTURE MODE	PICTURE AND VIDEO	PICTURE AND VIDEO	PICTURE AND VIDEO	
SENSOR PARAMETER	1/3 1.3MP	1/2 3.0MP	1/2.5" 5.0MP	
MAX. RESOLUTION	1280*1024	2048*1536	2592*1944	
PIXEL SIZE	2.2µm*2.2µm	2.2µm*2.2µm	2.2µm*2.2µm	
RESPONSIVITY	1.0V/ lux-sec	1.4V/lux-sec	1.4V/lux-sec	
DYNAMIC RANGE	71dB	70.1dB	70.1dB	
S/N RATIO	44dB	38.1dB	38.1dB	
SPECTRAL RANGE	400-650nm(with IR-filter)	400-650nm(with IR-filter)	400-650nm(with IR-filter)	
FRAME RATE	17fps@1280*1024	15fps@2048*1536	10fps@2592*1944	
PREVIEW MODEL	1280x1024,1280x800, 1024x768,800x600, 640x480, 352x288,320x240, 320x240640x480,352x288	2048x1536,1600x1200, 1280x1024,800x600, 640x480, 352x288,320x240	2592x1944,2048x1536, 1600x1200,1280x1024, 800x600, 640x480, 352x288,320x240	
EXPOSURE	ERS OR MANUAL	ERS OR MANUAL	ERS OR MANUAL	
POWER CONSUMPTION.	190mW	381mW	381mW 381mW	
WHITE BALANCE	AUTO	AUTO AND MANUAL AUTO AND MANUAL		
POWER SUPPLY	USB POWERED	USB POWERED USB POWERED		
DEVICE WEIGHT	0.09kg	0.09kg	0.09kg	
DEVICE SIZE	Ф74.00mm*97.00mm	97mm*Φ74mm	97mm*Φ74mm	
CABLE LENGTH	1.5m	1.5m	1.5m	
FUNCTION OF SOFTWARE	IMAGE & VIDEO CAPTURE, EDIT AND MANAGEMENT	IMAGE & VIDEO CAPTURE, EDIT AND MANAGEMENT	IMAGE & VIDEO CAPTURE, EDIT AND MANAGEMENT	

TRINOCULAR MICROSCOPE WITH TEACHING CAMERA



Inclined Microscope with IS Series Camera Setup

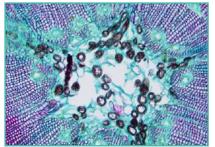




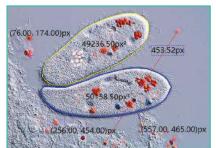
- Image Enhancement (hue, saturation, contrast, etc)
- 2D Measurement including calibration
- Auto-exposure and single click white balance
- Capture Images, High Quality Videos
- Compatible with Windows, Mac OS and Linux
- C/C++, C#, DirectShow, Twain Control API

ORDERING INFORMATION

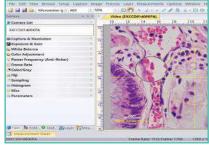
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Ideal for routine brightfield applications



Measurement



Advanced image processing software esaw image Analysis

applications				Software esaw illiage Alialysis	
MODEL NO	IS-500	IS-1200	IS-1800	IS-2000	IS-4500
SENSOR & SIZE(MM)	5.1M/AR0521(C) 1/2.5" (5.70x4.28)	12M/IMX577(C) 1/2.3" (5.95x4.71)	18WAR1820(C) 1/2.3"(6.14X4.61)	20M/IMX183(C) 1 "(13.06x8.76)	45M/IMX492(C) 1.4" (18.93x13.00)
PIXEL(PM)	2.2x2.2	1.55x1.55	1.25x1.25	2.4 x2.4	2.315x2.315
G SENSITIVITY DARK SIGNAL	18.8ke-/lus 73dB 40dB	250LSB 70dB 43dB	0.62 V/lux-sec 65.8dB 36.3dB	•	0s 108mv with 1/30s 0s 0.03mv with 1/30s
FPS/RESOLUTION	30@2592x1944 30@1280x960 30@640x480	20@3840x3040 20@1920x1520 20@960x760	13.1@4912x3684" 34.3 @2456x1842 54.4 @1228x922	15@5440x3648 50@2736x1824 60@1824x1216	10.4@8176x4320© 34.7@4096x2160(M) 62.5@2048x1080(M) 86.5@1344x720(M)
BINNING	1 X 1 1 X 1 1 X 1	1 X 1 1 X 1 1 X 1	1 X 1 2 X 2 4 X 4	1 X 1 2 X 2 3 X 3	1 X 1 (17:9) 2 X 2 (17:9) 3 X 3 (17:9) 4 X 4 (17:9)
EXPOSURE	0.1-1000ms	0.1-2000ms	0.1ms~2s	0.1ms~15s	0.1ms~15s
SPECTRAL RANGE	380-650nm (with IR-filter), for Monochromatic Camera, AR Is Used				
WHITE BALANCE	ROI White Balance/ Manual Temp-Tint Adjustment				
COLOR RENDERING TECHNIQUE		Ultra Fine Color Engine			
CAPTURE/CONTROL SDK Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, Direct Show, Twain, etc);					
ADC	8 Bit / 14 Bit				
RECORDING SYSTEM	Still Picture and Movie				
COOLING SYSTEM*	Natural				
OPERATING TEMPERAT	PERATING TEMPERATURE -10°c- 50°c				
STORAGE TEMPERATUR	tE	-20°c- 60°c			
OPERATING HUMIDITY		30-80%RH			
STORAGE HUMIDITY		10-60%RH			
POWER SUPPLY		DC 5V over PC USB Port			