MAGNUS

Key Features:

- Standard C-Mount camera with SONY Exmor CMOS sensors

- Two-stage TE-cooling with controllable electric fan

- Sensor chip cooling up to 42°C below ambient temperature

- Working temperature can be regulated to specified temperature in 5 minutes

- Smart structure to assure the heat radiation efficiency and avoid the moisture problem

- IR-CUT/AR coated windows

- Ultra-FineTM color engine with perfect color reproduction capability

- MagVision software for PC / Laptop

- Power adapter: input: AC 100~240V 50Hz/60Hz, output: DC12 V 3A
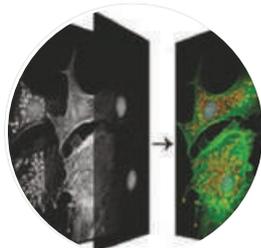
- High-Speed USB 3.0

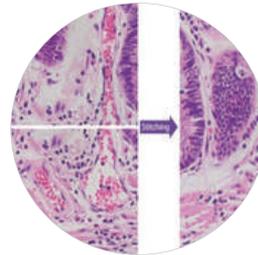Find us on

Color
Composite

Image
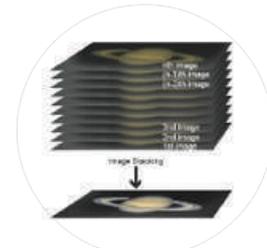Stitching

Extended Depth
Of Field (EDOF)

Image
Stacking
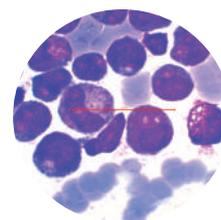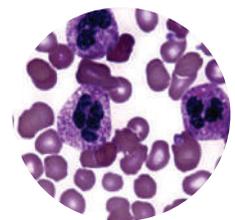
C-Mount Adapters Optionally Available:

0.35 X

0.5 X

MagVision Software comes with tools for:

- Image enhancement (hue, saturation, contrast etc.)

- Point to point measurement including calibration

- Image stiching

- Extended depth of focus

- Capture images, videos & time lapse images

- Compatible with Windows 10, 11 or higher

Measurement

Ideal for Routine
Brightfield Applications

Specifications

Model/ Specifications	HD7 Cooled	HD8 Cooled
Mega Pixel	7.0 MP	8.3 MP
Pixel Size (μm)	4.5 X 4.5	2.9 X 2.9
Sensor	Sony IMX 428 sensor	Sony IMX 585
Sensor size	1.1"	1/1.2"
Type of Camera	Color	Color
Type of Shutter	Global Shutter (GS)	Rolling Shutter (RS)
FPS & Resolution	51.3 FPS @ 3200 X 2200 133.8 FPS @ 1920 X 1080	45 FPS @ 3840 X 2160 70FPS @ 1920 X 1080
Binning	1X1	1X1, 2X2
Exposure	0.1 ms~ 1 hour	0.1 ms~ 1 hour
Spectral range	380~650 nm (with IR-Cut filter)	
Interface	USB 3 Interface	
Applications	Low light environment & microscope fluorescence image capture & analysis	

Dimensions & Available Ports on the back panel of the Camera

Specifications

Spectral Range	380-650nm (with IR-cut Filter)
White Balance	ROI White Balance/ Manual Temp Tint Adjustment/NA for Monochromatic Sensor
Color Technique	Ultra-FineTM Color Engine/NA for Monochromatic Sensor
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc)
Recording System	Still Picture and Movie
Cooling System*	Two-stage TE-cooling System -42 °C below Camera Body Temperature

Operating Environment

Operating Temperature (in Centidegree)	-10~ 50
Storage Temperature (in Centidegree)	-20~ 60
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port External Power Adapter for Cooling System, DC12V, 3A

Software Environment

Power Supply	Microsoft® Windows® 10 / 11 or higher
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher
	Memory: 2GB or More
	USB Port: USB3.0 High-speed Port
	Display: 17" or Larger
	CD-ROM