Key Points:

- Sony back illuminated CMOS sensor

- 4K HDMI/ USB multiple video synchronous outputs

- 4K/1080P auto switching according to monitor resolution

- High frame rate output, supporting up to 4K 75fps

- SD card for captured image and video storage, support local preview and playback

- New browsing function, providing rich file operation functions image to image comparison, image to real-time video comparison, EDF and other functions

- MagVision software for PC / Laptop

- 13.3" HDMI Screen available optionally

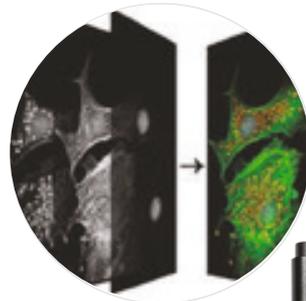# MagVision Software

Microscope Masterclass

Color Composite
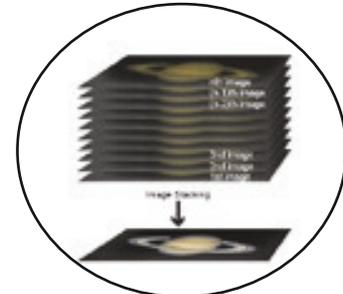
Image Stacking

0.5X C-Mount Adapter

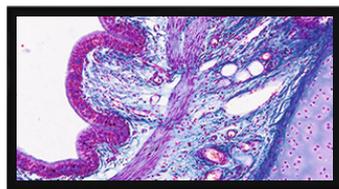**Extended Depth of Field (EDF)**
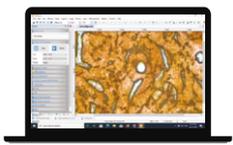
Laptop

Ultra HD 4k Screen

LED

C-Mount Adapters Optionally Available:
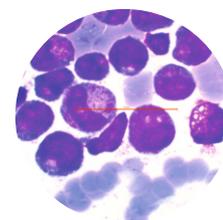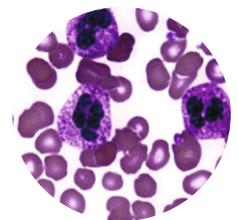
0.35 X   0.5 X

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	Sensor & Size(mm)	Pixel (µm)	Sensor Output at full resolution	Binning	Exposure (ms)
MagCam HD 8$_{4K}$	Sony Sensor 1/1.2"(11.14x6.26)	2.9x2.9	75@3840*2160 video mode 60@3840*2160 HDMI 2.0 mode 30@3840*2160 USB 3.0 mode	1x1	0.048~1000

Available Ports on the Back Panel of the Camera Body

Interface	Function Description
USB Mouse	Connect USB mouse for easy operation
USB Video	Connect PC or other host device to realize video image transmission
HDMI	Comply with HDMI2.0 standard. 4K/1080P format video output and supporting automatic switch between 4K and 1080P format according to the connected monitors
SD	SD card slot SD card can be inserted for video and images saving
ON / OFF	Power switch
LED	LED status indicator
DC 12V	InterPower adapter connection (12V / 1A) face

Operating Environment	
Operating Temperature	-10°~ 50°
Storage Temperature	-20°~ 60°
Operating Humidity	30~80% RH
Storage Humidity	10~60% RH
Power Supply	DC 12V/1A Adapter

Other Function	Function Description
Video Saving	Video format: 8M(3840*2160) Video saving frame rate: 75fps
Image Capture	8M (3840*2160, JPEG/TIFF image in SD
Measurement Saving	Measurement information saved in different layer with image content Measurement information is saved together with image content in burn in mode
ISP (Image Signal Processor)	Exposure (Automatic / Manual Exposure) / Gain , White Balance(Manual / Automatic / ROI Mode) , Sharpening, 3D Denoise, Saturation Adjustment, Contrast Adjustment, Brightness Adjustment, Gamma Adjustment, Color to Gray, 50HZ/60HZ Anti-flicker Function
Image Operation	Zoom In/Zoom Out, Mirror/Flip, Freeze, Cross Line, PIP , Browser (including Picture Browsing , Video Playback , Video Compare , Picture Compare , EDF , Image Processing), Measurement Function

Software Environment under Network / USB Video Output	
White Balance	Auto White Balance
Color Technique	Ultra-Fine Color Engine
Recording System	Still Picture or Video
Operating System	Microsoft® Windows® 10 / 11 or higher
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher
	Memory: 4GB or More
	Ethernet Port
	Display:19" or Larger