



Microscopes

Key Features – BMS HDMI Cameras

- High-sensitivity Sony Exmor **back-illuminated** CMOS sensor
- **Multiple outputs** including HDMI, LAN, WiFi etc.
- **Advanced ISP** with enhanced image processing
- BMS_pix3 desktop control software
- Free iOS and Android applications



76601080HA5

- Live-view imaging-system
- FHD HDMI video output and USB video streaming
- SD storage for images/videos
- Capture 2MP JPEG/TIFF



76601080PHB5

- Multiple interfaces: HDMI, WiFi and SD card
- WiFi: 802.11n, up to 3–6 devices connected
- WiFi output via USB adapter



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- Full HD (1920×1080) resolution for high-quality videos/images
- For digital imaging of stereo and biological microscopes



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- Autofocus keeps images sharp
- Multiple interfaces: HDMI, WiFi and SD card
- WiFi 802.11n, 150 Mbps, up to 3–6 devices connected



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- 4K Ultra HD video at 30 FPS, auto-switching to 1080P
- JPEG/TIFF to USB flash drive



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- Multi-output: 4K/1080P HDMI, LAN, USB synchronous
- 4K HDMI camera for digital imaging and interactive teaching

	USB	Sensor & Size	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Exposure (ms)
1	2.0	2MP 1/2"(7.2x4.05)	3.75 x 3.75	1175mv with 1/30s 0.15mv with 1/30s	60@1920*1080(HDMI) 50@1920*1080(USB)	0.04~1000
2	2.0	5MP 1/1.8"(6.22x4.67)	2.4 x 2.4	425mv with 1/30s 0.15mv with 1/30s	30@1920*1080(HDMI) 25@1920*1080(WiFi)	0.03~918
3	2.0	2MP 1/2.8"(5.57x3.13)	2.9 x 2.9	1300mv with 1/30s	60@1920*1080(HDMI)	0.01~1000
4	2.0	2MP 1/1.9"(7.20x4.05)	3.75 x 3.75	1120mv with 1/30s 0.15mv with 1/30s	60/1920*1080 (HDMI) 25/1920x1080 (WiFi)	0.06~918
5	2.0	8MP 1/1.8"(7.68x4.32)	2.0 x 2.0	505mv with 1/30s 0.1mv with 1/30s	30@3840*2160(HDMI) 20@3840*2160(USB)	0.04~1000
6	3.0	8MP 1/1.8"(7.68x4.32)	2.0 x 2.0	3541mv with 1/30s 0.15mv with 1/30s	72@3840x2160	0.019~1000

General Specifications BMS HDMI cameras



Sensor Type
High-sensitivity Sony Exmor back-illuminated CMOS sensor



Mount
C-mount



Housing
Integrated zinc-aluminum alloy compact housing



Application & Software
Advanced video & image processing (BMS_pix3)



SDK Support
Windows/Linux/macOS multiple platform SDKs



Usage
Suitable for bright field microscopy and image capture/analysis



Binning
1x1



White Balance
ROI Mode/Manual/Automatic



Color Technique
Ultra-Fine™ Color Engine



Measurement Saving
Layer mode & burn in mode



Image Operations
Zoom/Mirror/Freeze/Cross/Browser



Capture/Control API
Native C/C++, C#/VB.NET, DirectShow, Twain and Labview



Recording System
Still Picture and Movie



Operating Temperature
-10 ~ 50 °C



Storage Temperature
-20 ~ 60 °C



Operating Humidity
30 ~ 80% RH



Storage Humidity
10 ~ 60% RH



Power Supply
DC12V/1A



Multiple Language Support
English, French, German, Italian, Japanese, Korean, Thai and Chinese (Simplified & traditional).

Software Environment and Download Link



Operating System

- Microsoft® Windows® 10 and higher (BMS_pix3 full version)
- macOS (BMS_pix3 light version)
- Linux (BMS_pix3 light version)

PC Requirements CPU

- CPU: Intel Core2 2.8GHz or higher
- Memory: 4GB or more
- Display:19" or Larger



http://extern.bmsmicroscopes.com/BMS_pix3/BMS_pix3.zip