

PROMICAM HDMI 16

Stand-alone 16 MP 4K Color CMOS HDMI Camera with Integrated Measuring Features



Capture, Measure, and Browse Images without Using a Computer

PROMICAM HDMI 16 camera does not require a computer. Simply connect the camera to a monitor via an HDMI cable and connect a mouse directly to the camera. It only takes a few seconds to launch the camera. All functions of capturing, measuring, and browsing the captured images can be controlled by the mouse on the connected monitor. Images and videos are stored on an SD card or USB flash drive. The camera is suitable for a wide range of microscopic applications.

High-Resolution, High-Quality Images

PROMICAM HDMI 16 offers live view with up to 4K UHD resolution (3840 × 2160 pixels), high live image frame rate (up to 60 frames per second in 4K UHD resolution), very good sensitivity and color reproduction and high image quality with 16 MP resolution.

4K Video Recording

PROMICAM HDMI 16 camera allows recording 4K UHD video with a frame rate of up to 30 fps.

Large Field of View

Thanks to the 1/1.06" SONY® STARVIS 2 CMOS sensor, the camera has a very large field of view, which covers the field of view of microscopes very well.

Measurement Features

The camera can be calibrated using a calibration scale. The built-in software provides features for measuring dimensions, perimeters, areas, and angles without using a computer. Text annotations can be inserted into the images as well. The measured values can be exported to CSV files compatible with Microsoft® Excel®.

Wireless Control Via Wi-Fi

The camera can be wirelessly controlled via Wi-Fi from tablets or smartphones with Android or iOS operating systems using a free application.

Main Features:

- 1/1.06" SONY® STARVIS 2 BSI CMOS sensor
- Sensor resolution 16 MP (5440 × 3060 pixels)
- 4K UHD or Full HD live view resolution according to the connected monitor
- Live view frame rate up to 60 frames per second in 4K UHD (3840 × 2160 pixels) resolution
- Connect a monitor, TV, or projector with an HDMI cable
- Capture, record, measure and browse images and videos directly on the connected monitor
- Very good color reproduction
- Possibility to connect to any type of microscope with a photo-port
- Optional built-in 13.3" 4K UHD or Full HD monitor mounted to the camera
- Option to compare a live view with saved images or two images side by side
- Voice control option
- The camera can be used with QuickPHOTO programs in Windows

Application Examples:

- Brightfield / Darkfield / Polarized Light
- Differential interference contrast (DIC)
- Biology / Observation of living cells
- Moderate Light Fluorescence
- Histology / Pathology / Cytology
- Metrology / Mineralogy / Metallurgy / Geology
- Quality control
- Documentation and archiving
- Education



PROMICAM HDMI 16 Camera Specifications	
Model	PROMICAM HDMI 16 v2
Sensor Type	Sony® STARVIS 2 CMOS, rolling shutter, BSI (back-side illuminated), color
Sensor Size	1/1.06" (13.06 × 7.34 mm)
Sensor Aspect Ratio	16:9
Pixel Size	2.4 μm × 2.4 μm
Exposure Time	0.104 ms ~ 1 s
Live View Resolution via HDMI @Max. Frame Rate (fps)	According to the type of connected monitor: 3840 × 2160 px (4K UHD) @60 fps 1920 × 1080 px (Full HD) @60 fps
Live View Resolution via USB 3 @Max. Frame Rate (fps)	5440 × 3060 px @20 fps 2688 × 1512 px @30 fps 1920 × 1080 px @30 fps
Image Resolution	5440 × 3060 px (16 MP)
Image Format	JPEG, TIFF
Resolution and Frame Rate of Recorded Videos	3840 × 2160 px (4K UHD) @30 fps 1920 × 1080 px (Full HD) @30 fps
Video Format	MP4
Video Codecs	H264, H265
Supported Storages	SD card (SDIO 3.0 compatible) USB flash drive (USB 3 or USB 2)
Storage Format	FAT32, NTFS, exFAT
Connection Options	HDMI, USB, Wi-Fi
USB Interface	USB 3
HDMI Interface	HDMI 2.0 (4K/1080p)
Wi-Fi Interface	5 GHz Wi-Fi adapter (supplied)
Wi-Fi Control	Via a free application for Android and iOS
Voice Control	Taking images, recording videos, pausing live image
Camera Control Features	Auto and manual exposure Auto exposure compensation White balance: Auto, Manual, ROI, One-Touch Gain, Sharpness, Saturation, Gamma, Contrast, Brightness, Hue 3D denoise Light flickering reduction
Other Features	Marking of interesting places in the image with arrows and text notes Up to 10× digital zoom Image flip and mirror Black and white mode Live image pause Display of the center cross and grid PIP Overlay with a file from CAD programs (DXF format) Image and video viewer Comparison of 2 or 4 images Comparison of image and live image Multilingual user interface: English, German, French, Italian, Spanish, Portuguese, Dutch, Japanese, Korean, Thai, Simplified Chinese, Traditional Chinese, Russian
Control by QuickPHOTO Programs	Yes
Built-In Monitor Options	Two optional built-in monitors to choose from: 13.3", 4K UHD (3840 × 2160 px), IPS 13.3", Full HD (1920 × 1080 px), IPS
Advanced Control Options	Optional foot switch for taking pictures and recording videos
Recommended Microscope Adapter	0.63× or 1× with C-mount (not included)
Dimensions	93 × 80 × 65 mm (3.66" × 3.15" × 2.56")
Weight	720 g
Compliances	CE, RoHS, WEEE
Included in the Box	PROMICAM HDMI 16 camera, 12V power supply 32 GB SD card Wireless mouse 5 GHz Wi-Fi USB adapter, Voice control adapter HDMI cable, USB 3 cable USB flash drive with user manual and associated software