



HDCAM-WiFi
High Definition WiFi Enabled
Microscope Camera & Software



High Sensitivity Camera

The HDCAM-WiFi microscopy camera emits its own WiFi signal while using the included Wifi dongle. The back-illuminated sensor has high sensitivity, providing excellent image quality.

- 8 Megapixels
- High Sensitivity
- Low Noise
- USB 3.0 Output
- WiFi enabled for app connection using smart device.
- In-app image capture and measurement.

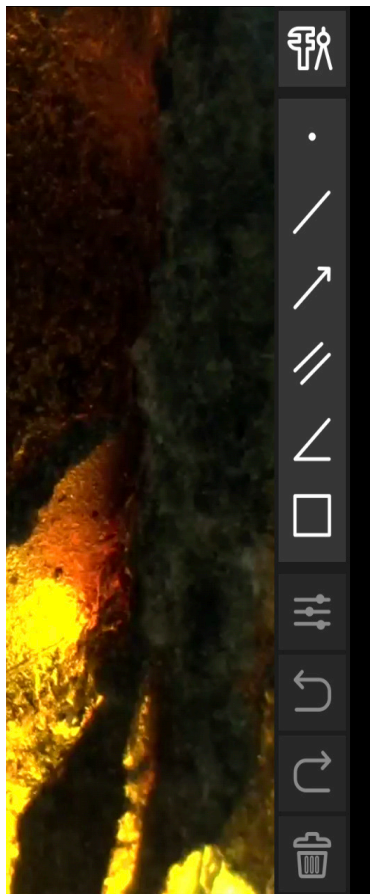


Applications

- Digital classrooms
- Digital laboratory
- Low-Light Applications
- Fluorescence presentations
- Visual inspection
- Quality control
- Applications where there is no space for a computer near microscope.

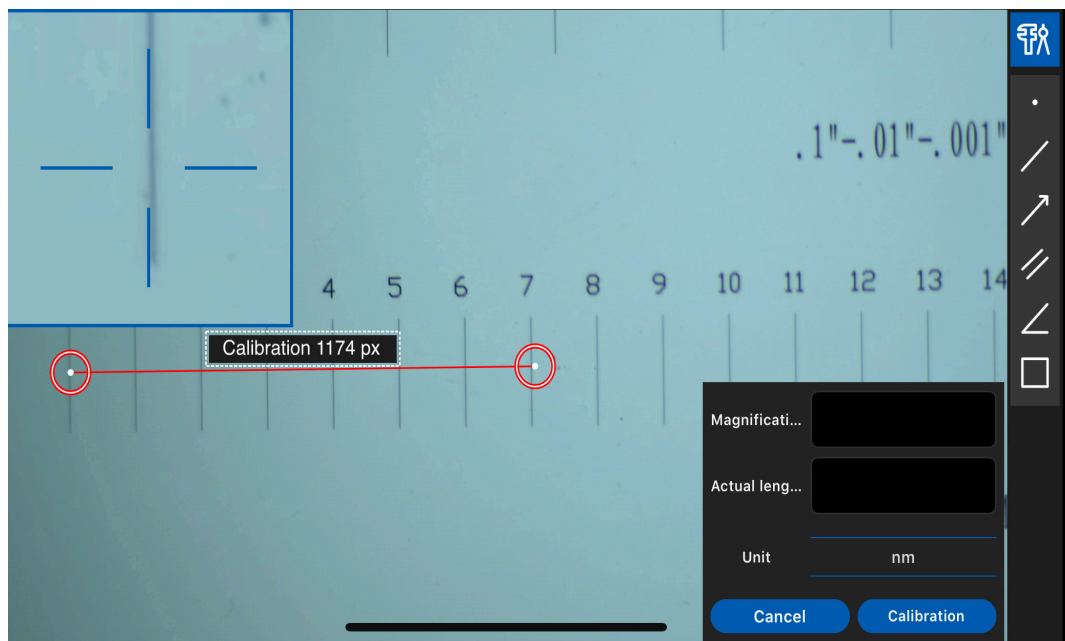


Measurement Options



Measurements are performed using the software App on a smart device. Choose from a large variety of measurement options and tools:

- Single point
- Line
- Arrow
- Two Parallels
- Angle (3 or 4 points)
- Square
- Circle
- Annulus
- Polygon



Calibration

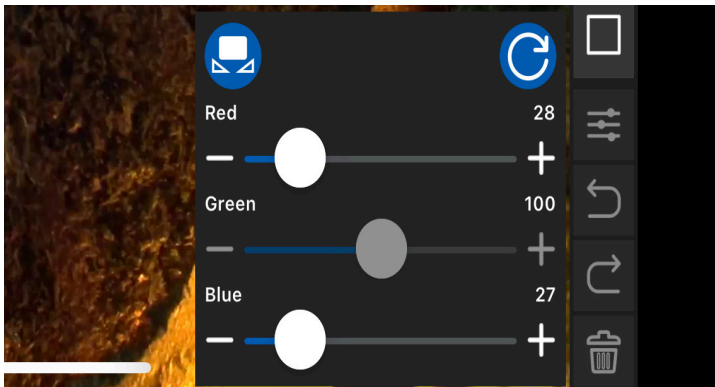
Accurate calibration should be performed for each magnification with a stage micrometer. If using a stereo microscope click stops are the only way to make accurate, repeatable measurements. Available calibration measurement options include:

- Inches (in)
- Meters (m)
- Centimeters (cm)
- Millimeters (mm)
- Microns (μm)
- Nanometers (nm)

Basic Settings

Some of the software's basic features include:

- Exposure, Gain, White Balance
- Saturation, Brightness, Contrast, Gamma
- Color Adjustment
- Power Frequency (anti-flicker)
- Frame Rate Setting
- Image Rotation
- Darkfield Correction
- Image Capture
- Video Capture



HDCAM-WiFi Microscope Camera Specifications

| | |
|--------------------------------------|--|
| Image Sensor | 1/1.8" Sony IMX678(C) (7.68x4.32mm) CMOS |
| Pixel Size | 2.0 x 2.0µm |
| Resolution | 8 Megapixels, 3840 x 2160 |
| Frame Rates | 30 fps @ 3840 x 2160 HDMI 30 fps @ 1920 x 1080 WiFi |
| Binning | 1x1 |
| Exposure | 0.045ms~1000ms |
| Output | WiFi, HDMI |
| Sensitivity | 1364mv |
| Power | DC12V/1A, power on/off switch |
| App / HDMI Controls | White Balance, Auto White Balance |
| | Capture still images or motion video with in-app software |
| | Perform calibration and measurements |
| App Software Features | Image capture and motion video |
| | Adjustment of white balance, color, frame rate, exposure, gain, flip, sampling, bit depth, ROI, histogram, darkfield correction. |
| | Annotation |
| | Measurement and Calibration: angles, lines, diameter, polygon, etc. |
| Operating System for Software (WiFi) | ToupView or ToupView App on Windows/Linux/OSX/Android Platform |
| Maximum Connected Devices | 3- 6 devices (depending on environment and connection distance) |
| Operating Temp | -10~50°C |
| Storage Temp | -20~60°C |
| Operating Humidity | 30-80%RH |
| Storage Humidity | 10-60%RH |
| Size | 78mm (3.07") W x 77mm (2.76") D x 92mm (3.62") H |
| Connection | C-Mount Threads |

