



# BIOVIEW

CAMERA & MONITOR



IDEAL FOR A WIDE VARIETY OF APPLICATIONS:

- Research, Teaching, & Demonstration
- Pathology, Cytology, Oncology, Hematology, Semen Evaluation
- Dental Applications
- Industrial & Manufacturing





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The **BioVIEW** microscope camera and monitor is the essential tool for live presentations and client education. The premium **BioVID HD 1080+** camera paired with the 1080p 11.6" HD Monitor provides a bright and beautiful image. Simply mount the camera onto any trinocular C-mount for amazing resolution and fast-action video (60fps). Using the included mouse and SD card, click to save and view images and videos...even view side-by-side comparisons. Additionally, use the included USB cable and advanced imaging software to save and edit images and videos onto your computer. The **BioVID HD 1080+** camera has 1920x1080 resolution, increased sensitivity, low-noise, and great color rendition, creating stunning, high-resolution imaging on the attached 1080p HD monitor...or on any large HDTV or projector. The extra large pixel size on the Sony IMX236(C) CMOS chip ensures crisp images in bright field (even at high magnifications) while providing the sensitivity needed to view and capture precise images in low-light applications, such as dark field, phase contrast, and epi-fluorescence. Whether in a large lecture hall, a classroom, the laboratory, or the clinic, the **BioVID HD 1080+** will ensure clients and students see microscope images clearly.

Choose from **HDMI** and/or **USB** outputs or save images and videos to the included **SD card**.



**When using HDMI output only,** an ONSCREEN camera control panel and tool bar allow you to access the following features with a few clicks of the included USB mouse:

- Color adjustment, exposure, white balance
- Sharpness and denoising
- Zoom and freeze, mirror and comparison
- “Side-by-Side” viewing

**For USB output,** advanced image software allows these features:

- 2D measurement
- HDR (High Dynamic Range) for more accurate representations of color and light
- Image stitching
- EDF (Extended Depth of Focus)
- Image segmentation and count, image stacking
- Color composite
- Sharpness and denoising

SIMULTANEOUS HDMI AND USB OUTPUT FEATURE ALLOWS YOU TO PROJECT LARGE IMAGES/VIDEOS ONTO ANY MONITOR WHILE HAVING THE OPTION TO MANIPULATE, SAVE, AND EMAIL THE SAME IMAGES FROM YOUR COMPUTER.



**Model Number:** BVC-I080-CMT3

**Description:** BioVID HD1080+ Camera ONLY



**Model Number:** BVC-I080-TVK3

**Description:** BioVIEW HD1080+ Camera and Monitor



**Model Number:** INS-T4BV-IPL3

**Description:** Innovation Trinocular Microscope with BioVIEW Camera and Monitor

# BIOVIEW MONITOR SPECIFICATIONS

## Features:

- Panasonic super TFT LCD display
- True 1080p resolution
- 16.7 million colors
- High contrast ratio up to 1,000:1
- LED backlight with 50000 hours lifetime
- 11.6-inch active view area
- IPS full wide-angle viewing

## Operating Environment:

|                        |  |
|------------------------|--|
| Operating Temp:        | -15° to 55° C  |
| Humidity:              | 10-90%   |
| Synchronization Range: | 30-80 KHz horizontal<br>55-75 Hz vertical              |
| Power Supply:          | AC 110v-220v auto-switching input<br>DC 12v /1a output |
| Power Consumption:     | Max 12w  |

## Performance:

|                 |   |
|-----------------|---|
| Input:          | HDMI  |
| Resolution:     | 1920 x 1080   |
| Display Type:   | 16:9 ratio, 11.6 inch,<br>Active matrix super TFT LCD |
| Contrast Ratio: | 1,000:1   |
| Colors:         | 16.7 million  |
| View Angle:     | IPS full view   |
| Display Area:   | 258mm W x 145mm H                                     |
| Pixel Pitch:    | 0.134mm W x 0.134mm H                                 |
| Brightness:     | 350 CD/sq.m   |
| Back Light:     | 5,000 hours   |
| Dimensions:     | 281mm L x 179mm H x 15.6mm D                          |
| Weight:         | 400g  |

# BIOVID HD 1080+ CAMERA SPECIFICATIONS

|                       |   |
|-----------------------|---|
| <b>Resolution:</b>    | 1920x1080   |
| <b>Image Sensor:</b>  | 1 / 2.8" (5.5x3.4mm) Sony IMX236(C)<br>CMOS color   |
| <b>Pixel size:</b>    | 2.8um x 2.8um   |
| <b>Auto-Exposure:</b> | 0.1ms-999ms   |
| <b>Power:</b>         | cUL / CE approved power adapter<br>AC Input: 100-240Vac 50/60Hz, 0.31A<br>(Auto-switching power adapter)<br>DC Output: 12V, 1.0 amp |

|                             |  |
|-----------------------------|--|
| <b>Operating Condition:</b> | Temperature: -10°C ~ 50°C<br>(14°F to 122°F)<br>Humidity: 30-80%RH |
|-----------------------------|--|

|                                    |   |
|------------------------------------|---|
| <b>Connections &amp; Controls:</b> | USB Port: USB computer cable<br>or USB mouse<br>HDMI Port: HDMI cable to TV<br>DC 12v Jack: 12v DC power in<br>SD Slot: For included SD card<br>ON/OFF: Power button<br>LED Light: Red=off, Blue=on |
|------------------------------------|---|

|                      |   |
|----------------------|---|
| <b>Requirements:</b> | Operating System: Microsoft Windows XP,<br>Vista, 7, 8, 10 (32 & 64 bit), Mac OSX,<br>Linux<br>CPU: Intel Core2 2.5 or higher<br>Memory: > 4GB<br>USB 2.0 High-speed port |
|----------------------|---|

|                               |   |
|-------------------------------|---|
| <b>Weight and Dimensions:</b> | Height: 3.6" (92mm)<br>Length: 2.8" (70mm)<br>Width: 3.1" (78mm)<br>Weight: 1.03lbs. (0.47kg) |
|-------------------------------|---|

## Video Output:

|       |   |
|-------|---|
| HDMI: | User interface: USB mouse (included)<br>Image/Video Capture: SD card<br>Video: 60 frames per second<br>@ 1920x1080 (HDMI)<br>On screen-camera control panel and tool bar  |
| USB:  | Includes software for capturing, rotating,<br>measuring, etc.<br>Image/video capture into PC<br>Image capture into Mac<br>Video: 30 frames per second<br>@ 1920x1080 (USB)<br>White balance and standard color controls |

## Included Accessories:

- HDMI cable
- 8G SD card
- Power adapter
- USB mouse with 1.3m cable
- USB220-ATA | USB2.0 A cable - 2 meter
- CD with camera driver and software

## Optional Accessory:

- Eyetebe adapter (MVP-ADAO-ETMC)  
(For use with trinocular microscopes  
without a c-mount)



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