



Camera Options



PRODUCT DESCRIPTION

The device can be conveniently inserted in any of the standard type of biological microscope and stereomicroscope cylinder, the samples of microscope objective lens, imaging in the sensor chip receiver, and convert the video signal or video data stream, can display images in the TV or computer.

FEATURES

1. Digital eyepiece insert any microscope eyepiece barrel can be read by the computer digital microscopic images, very suitable for image presentation and analysis applications.
2. Used to connect the USB plug and the computer, convenient plug.
3. High resolution CMOS sensor, a digital signal can be directly displayed on the computer.
4. Equipped with image software versions:
 - Image software
 - Microscopic image processing software (optional)
 - Upgraded version of microscopic image analysis software (optional)



Digital Camera Size & Parameter:

| Model Parameter | HVD1000 | HVD500 | HVD300 | HVD130 | HVDPC | HWiFi | HVDTV |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------|----------------------|
| Sensor size | 1/2.3" | 1/2.5" | 1/2" | 1/2.5" | 1/3" | 1/2.3" | 1/3" |
| Color/Monochrome | Color | Color | Color | Color | Color | Color | Color |
| Pixel size(μm) | 1.67x1.67μm | 2.2x2.2μm | 3.2x3.2 μm | 2.2 x2.2μm | 3.75x3.75μm | 1.67x1.67μm | 700TVL |
| Effective pixels(MP) | 10.0 | 5.0 | 3.0 | 1.3 | 0.3 | 10.0 | 0.61 |
| Resolution (HxV) | 3856Hx2764V | 2592Hx1944V | 2048Hx1536V | 1272Hx952V | 640Hx480V | 3856Hx2764V | 1020Hx596V |
| Scan mode | line by line | line by line | line by line | line by line | line by line | line by line | line by line |
| Shutter | electronic | electronic | electronic | electronic | electronic | electronic | electronic |
| Frame rate | 3-33 fps | 6-54 fps | 12-79 fps | 16-46 fps | 46 fps | 3-33 fps | 60 fps |
| Color depth | 24bit | 24bit | 24bit | 24bit | 24bit | 24bit | 24bit |
| A/D | 8 bit | 8 bit | 8 bit | 8 bit | 8 bit | 8 bit | 8 bit |
| Exposure Control | Automatic/ manual | Automatic/ manual | Automatic/ manual | Automatic/ manual | Automatic/ manual | Automatic/ manual | Automatic/ manual |
| Integration Time | 1ms-0.5S | 1ms-0.5S | 1ms-0.5S | 1ms-0.2S | 1ms-0.1S | 1ms-0.5S | 54μs-540ms |
| White balance | Automatic/ manual | Automatic/ manual | Automatic/ manual | Automatic/ manual | Automatic/ manual | Automatic/ manual | Automatic/ manual |
| Dynamic range | 56dB | 60dB | 54dB | 60dB | 50dB | 56dB | 55dB |
| Operating temperature | 0-60°C | 0-60°C | 0-60°C | 0-60°C | 0-60°C | 0-60°C | -20°C-60°C |
| Operating humidity | 45%-85% | 45%-85% | 45%-85% | 45%-85% | 45%-85% | 45%-85% | 0-96% |
| working voltage | 5V±5% | 5V±5% | 5V±5% | 5V±5% | 5V±5% | 5V±5% | 12V±5% |
| Operating system | Windows/ Linux/Mac | Windows/ Linux/Mac | Windows/ Linux/Mac | Windows/ Linux/Mac | Windows | Windows/ Linux/Mac | ----- |
| Optical port | "C"port | "C"port | "C"port | "C" port | "H" port | "C" port | "C"port |
| Data interface | USB2.0 | USB2.0 | USB2.0 | USB2.0 | USB2.0 | USB2.0/WiFi (8 fps) | BNC |

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