INFINITYHD

1080p60 HD Microscopy Camera

High Definition CMOS Color Camera with HDMI Output



INFINITY*HD*

Lumenera's INFINITY*HD* microscopy camera is a full featured, stand alone, high definition scientific imaging solution offering full 1080p60 preview with superb color reproduction and extremely fast frame rates. Operate the camera by directly connecting to an HDMI monitor without connecting to a PC, or utilize the plug-and-play USB 2.0 connection for image capture. With extremely fast response times, the INFINITY*HD* quickly reacts to lighting changes in any life science, clinical or material science applications.

Superior Color

Years of experience in the microscopy market have allowed Lumenera to develop specialized algorithms ensuring unsurpassed color reproduction. This results in a sample preview on a monitor that closely matches the view on the microscope eyepiece.

Frame Rate

The INFINITYHD camera provides the required 60 fps needed for true high definition, unlike many competitors professing to be HD but offering considerably lower frame rates. This allows for smooth sample manipulation on the preview without any lag.

INFINITY HD Software

The included INFINITY*HD* software allows for image capture. The software is intuitive and can be set up in minutes. Once the camera is initially installed, the camera can run independently or used via the high-speed USB 2.0 connection.

Superior Technical Assistance Center (TAC)

As a Lumenera customer you gain access to the TAC group and knowledge base, which provide full support for cameras, software and microscopy applications.

Features

- 1/3" (16:9) CMOS 2 megapixel sensor
- 1080p60 high definition format 1920 x 1080 at 60 fps
- Direct output to HDMI monitor
- 3 on-camera buttons for power, white balance and capture
- Optional USB 2.0 output to PC
- INFINITY*HD* software compatible with Windows 10, 8, 7, Vista, 32 and 64-bit, for image capture

Recommended Applications

- Brightfield
- Darkfield
- Live Cell Imaging
- Histology
- Pathology
- Cytology
- Defect Analysis
- Semiconductor Inspection
- Metrology

Warranty

• Four (4) year warranty

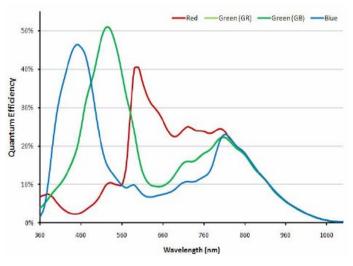
Microscope Coupler

• Requires 0.33 x, 0.4 x or 0.5 x coupler

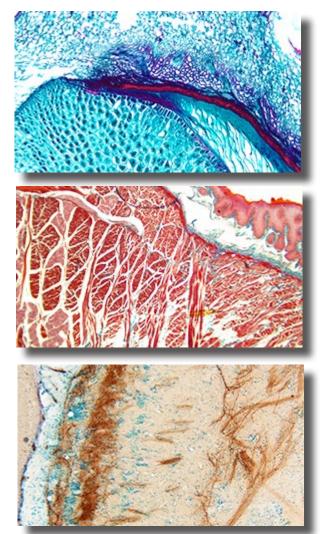


7 CAPELLA COURT, OTTAWA, ON, CANADA K2E 8A7 | TEL (613) 736-4077 | FAX (613) 736-4071 | WWW.LUMENERA.COM | INFO@LUMENERA.COM © 2016 Lumenera Corporation. All rights reserved. Design, features, and specifications are subject to change without notice. 29072016

Sensor Quantum Efficiency



Sample Images







info@microscopeworld.com 800-942-0528 Toll Free 760-438-0528 International

La2020HD La2030M

La050300

Ordering Information

| Imager Size | Diagonal 5.86 mm |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pixel Size | 2.7 x 2.7 μm |
| Resolution | 1920 x 1080 pixels |
| Region of Interest Control | Not applicable to HD |
| Camera Specifications | |
| Frame Rate | 1080p60 (60 fps at full resolution) |
| Bit Depth | 8-bit |
| Binning Modes | Not applicable to HD |
| Exposure Control | Fully automatic control |
| Exposure Range | Not applicable to HD |
| Gain Control | Fully automatic control |
| Gain Range | Not applicable to HD |
| White Balance | One shot automatic control |
| Camera Characteristics | |
| Sensitivity | 11,500 e-/lux/sec |
| Dynamic Range | 65 dB |
| Full Well Capacity | 15,500 e- |
| Quantum Efficiency | 51 % (green peak) |
| Read Noise | 8.7 e- |
| Dark Current Noise | <60 e -/pixel/s at 60 °C |
| Mechanical Specifications | |
| Data Interface | HDMI |
| Control Interface | USB 2.0 |
| Lens Mount | Adjustable C-mount standard |
| Dimensions | 97.8 x 69.8 x 50.8 mm 3.85 x 2.75 x 2.00 inch |
| Mass | 330 g |
| Operating Temperature | 0 to 50 °C |
| Storage Temperature | -30 to 70 °C |
| Operating Humidity | 5 to 95%, non-condensing |
| Shock / Vibration | 50 g shock, 5 g (2 to 200 Hz) vibration |
| Onboard Memory | Camera has onboard non-volatile memory storage |
| Control Software | |
| Operating Systems | Windows 10, 8, 7, Vista, 32 and 64-bit |
| Power and Emissions | 0.5.11 |
| Power Consumption | ~2.5 W External 5 V DC, 500 mA |
| Power Requirement Emissions Compliances | FCC Class B, CE Certified |
| Hazardous Materials | RoHS, WEEE Compliant |
| Warranty | Four (4) year |
| System Requirements | |
| Recommended PC Specs: | Pentium 4, 1.3 GHz or higher 512 MB RAM 500 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, 32 and 64-bit |
| Included In The Box | |
| INFINITY <i>HD</i> | 2 MP Digital Camera for USB 2.0 |
| LuINFHDSW-DVD | DVD with INFINITYHD user application software and documentation |
| | |

2 m HDMI cable

3 m USB 2.0 A - mini B cable

2 MP HD Color Camera

5 V DC, 2.5 A, 12.5 W power supply

CMOS, color, progressive scan

1/3"

Image Sensor

Optical Format

7 CAPELLA COURT, OTTAWA, ON, CANADA K2E 8A7 | TEL (613) 736-4077 | FAX (613) 736-4071 | WWW.LUMENERA.COM | INFO@LUMENERA.COM © 2016 Lumenera Corporation. All rights reserved. Design, features, and specifications are subject to change without notice. 29072016