

# Allegro CMOSIS CMV2000 2MP



US3  
VISION

## SPECIFICATIONS

<b>Image Sensor Model</b>	<b>CMOSIS CMV2000</b>
<b>Sensor Format</b>	2/3 inch
<b>Max Resolution</b>	2048 x 1024, 2 MP
<b>Max Frame Rate</b>	190 fps (mono)
<b>Burst Frame Rate</b>	300 fps into internal buffer
<b>Pixel Size</b>	5.5 x 5.5 $\mu$ m
<b>Shutter</b>	Global
<b>Vision Standard</b>	USB3 Vision™ Specification v1.0
<b>Analog-to-Digital Converter</b>	10-bit ADC
<b>Sensor Video Data</b>	10-bit digital data
<b>Image Data Formats</b>	YUV, YCbCr422/400, RGB8/565, processed Bayer8/10/12, Mono8/10/12/16, including packed
<b>FPGA</b>	Altera Cyclone V
<b>On-Board Memory</b>	256 MB
<b>Dynamic Range</b>	60 dB and other High Dynamic Range Modes Available
<b>Partial Image Modes</b>	2 x 2 Binning is supported. Programmable region of interest capability.
<b>Gain Control</b>	Analog Gain & Digital Gain (programmable)
<b>Shutter Speed</b>	Manual / One-push modes, programmable via software, 0.03 ms to 1 sec, longer exposure (integration) times can be supported if needed
<b>Synchronization</b>	Via external trigger
<b>Trigger Latency / Jitter</b>	Latency TBD / Jitter +/- 0.5 microsecond
<b>Interface Port</b>	USB3
<b>General Purpose I/O Port</b>	12 Pin 7 mm Push-Pull Connector   Programmable Opto-Isolated Trigger Input 2 Programmable Opto-Isolated Strobe Outputs
<b>Power / Voltage</b>	USB3 Host Port, 5 V +/- 10% at 0.9 A max
<b>Dimensions (W x H x L)</b>	52 x 46 x 33 mm (camera body)
<b>Mass</b>	126 g (without optics)
<b>Lens Mount</b>	C-Mount or CS-Mount (optional)
<b>Adjustable Back Focal Length</b>	Optional
<b>Emissions Compliance</b>	CE, FCC, RoHS
<b>Operating Temperature</b>	-0° to 50° C
<b>Storage Temperature</b>	-30° to 70° C
<b>Vibration Resistance</b>	10 G (14 Hz to 200 Hz)
<b>LED Indicator</b>	Status and power monitoring   Dual color
<b>Enclosure</b>	Pre-drilled mounting holes   Tripod mount available   Heavy duty aluminum   Sealed Sensor Cavity
<b>Warranty</b>	4 years – Industry leading

© Novanta 2018 Rev. 09062018

### USA Office

phone:+1 315.701.0678  
email: info@jadaktech.com  
web: jadaktech.com

### European Office

phone:+31 (0)76.522.5588

### Asia Pacific Office

phone:+86.512.6283.7080



**JADAK**  
A Novanta Company

 **Novanta**