

# Allegro CMOSIS CMV4000 4MP



## SPECIFICATIONS

<b>Image Sensor Model</b>	<b>CMOSIS CMV4000</b>
<b>Sensor Format</b>	1 inch
<b>Max Resolution</b>	2048 x 2048, 4 MP
<b>Max Frame Rate</b>	30 fps (mono)
<b>Burst Frame Rate</b>	150 fps into internal buffer (mono)
<b>Pixel Size</b>	5.5 x 5.5 $\mu$ m
<b>Shutter</b>	Global
<b>Vision Standard</b>	GigE Vision™ Specification v1.1
<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 auto modes. Programmable from 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>	Gigabit Ethernet RJ45
<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>	Via 12 pin Push-pull connector 6 V at 2 A or USB3 connector 5 V +/- 10% at 0.9 A max
<b>Dimensions (W x H x L)</b>	52 x 46 x 39 mm (camera body)
<b>Mass</b>	140 g (without optics)
<b>Lens Mount</b>	C-Mount or CS-Mount
<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

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