

# COLUMBIA 8

8MP CMOS | USB3.0 | Global Shutter | F-mount

Equipped with CMOSIS CMV8000 CMOS Global Shutter image sensor, Columbia8 is a produces unrivalled image quality. The USB3.0 interface allows easy installation for any systems.

Through the stand-alone CamDemo application, it can let user to control and understand the register setting in CMV8000. In addition, the software contains interface buttons to adjust sensor exposure time, gain and HDR setting, thus it does not require user to manipulate the sensor registers directly. The AWB, AGC, FPN, GAMMA functions were included on the camera.

## Features

- ✓ Compact size industrial camera with USB 3.0
- ✓ CMOSIS high quality 8MP color image sensor
- ✓ Contain 128 MBytes Image memory
- ✓ Hardware preprocessing from on-board FPGA
- ✓ Powerful data transfer capability, up to 370MBytes / s
- ✓ 12 bit pixel depth downward converted to 8 bit for display
- ✓ No acquisition cards required, powered by USB 3.0.



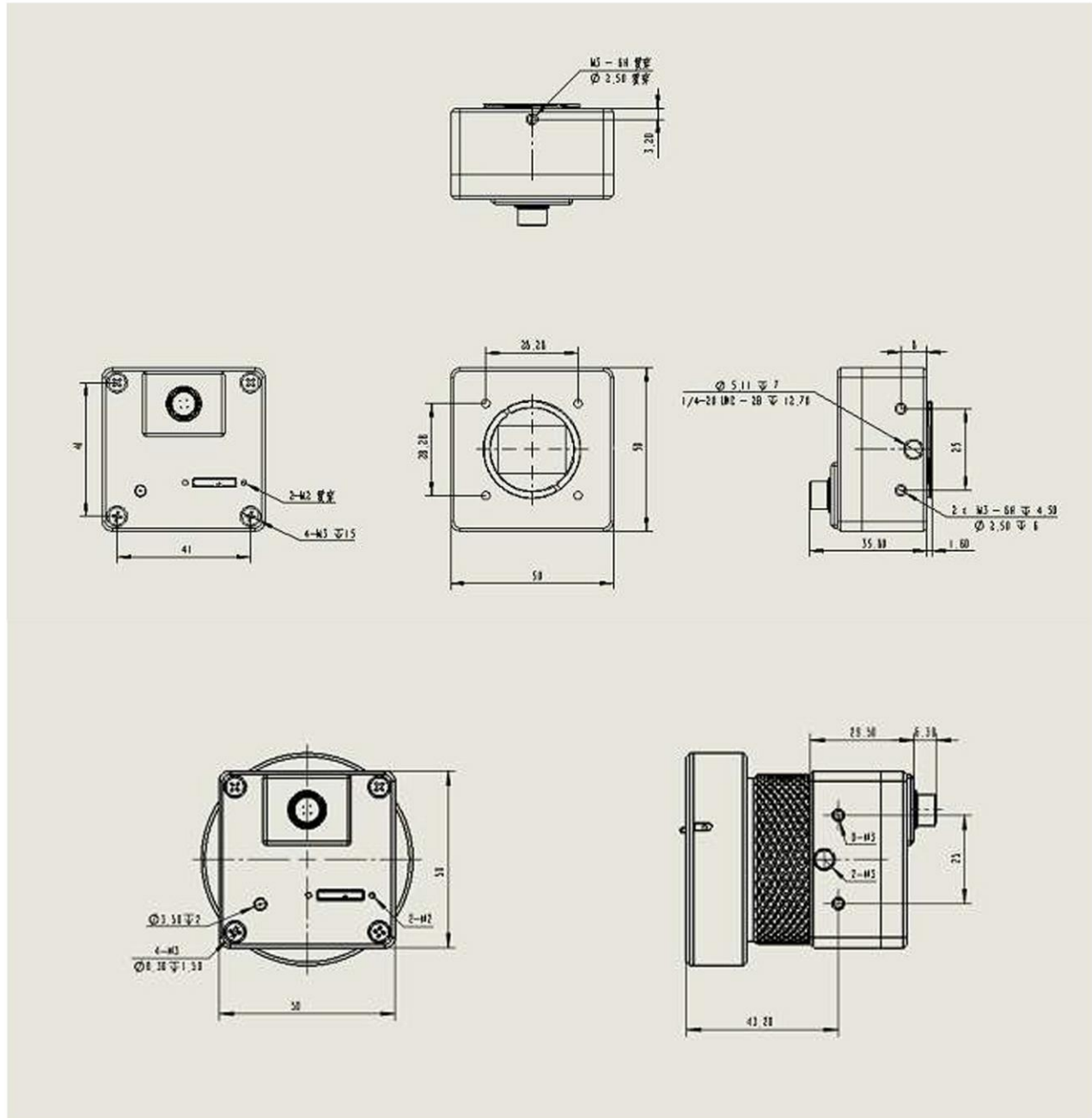
## Specifications

Resolution	3360x 2496
Sensor type	CMOS
Sensor model	CMOSIS CMV8000
Pixel size	5.5 $\mu\text{m}$ x 5.5 $\mu\text{m}$
Sensor size	1.43 inch
Pixel Bit Depth	12 bit -> 8bit
Dynamic range	61dB
Frame rates	10fps
Interface	USB 3.0
Synchronization	free-run
Shutter	global shutter
Exposure Control	programmable via the camera API
Data I/O	2
Power Requirements	Via USB 3.0 interface
Power Consumption (typical)	2.8W
Lens Mount	F-mount
Weight (without lens)	245g
Dimensions (without lens)	60mm x 60mm x 71mm
Temperature (Operating)	0 °C - 60 °C

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## Dimensions



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