

# MOMENT

## High Resolution, High Speed Global Shutter sCMOS

Teledyne Photometrics puts the right tool in your hands when the goal is fast, high resolution imaging and documentation in true plug-and-play fashion. This 7 MP global shutter sCMOS camera provides a large field of view and small pixels to maintain high resolution imaging at low magnification.

At 50 frames per second with a true global shutter, it is capable of high speed imaging without the possibility of distortion when imaging fast moving objects. Even with this high speed and large number of pixels, the camera handles the data smoothly via the new super speed USB 3.2 Gen 2 interface, which makes integration and connectivity simple

- Easy to integrate
- Simple connection
- High framerate
- True global shutter



- ▶ 73% Quantum Efficiency
- ▶ 4.5µm x 4.5µm Pixel Area
- ▶ 50 fps Full-Frame
- ▶ Global Shutter sCMOS
- ▶ USB 3.2 Gen 2 Interface

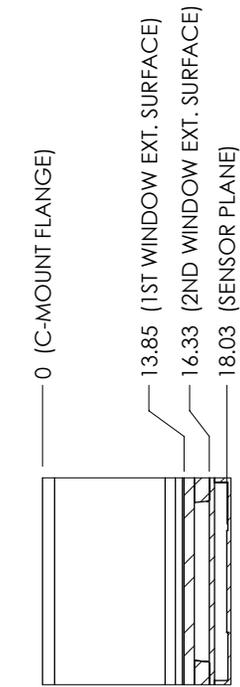
Specifications	Camera Performance
Sensor	Photometrics Sony-based Scientific CMOS
Active Array Size	3200 x 2200 (7 Megapixel)
Pixel Area	4.5µm x 4.5µm
Sensor Area	14.4mm x 9.9mm, 17.5mm diagonal
Peak QE%	73%
Read Noise	2.2 e <sup>-</sup>
Full-Well Capacity	8200e <sup>-</sup>
Framerate (full-frame)	50 fps
Bit Depth	12-bit
Shutter Type	Global Shutter
Cooling	Uncooled
Interface	USB 3.2 Gen 2 (10 Gbps)
Triggers	1 Input 1 Output

Frame Rate

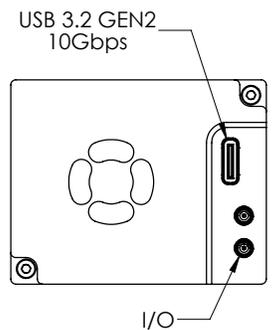
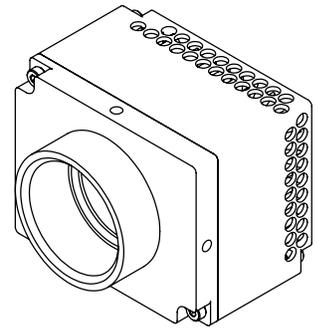
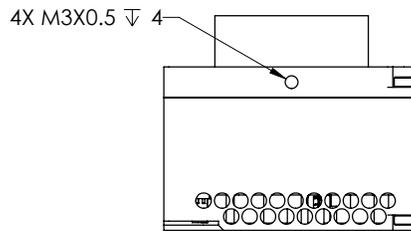
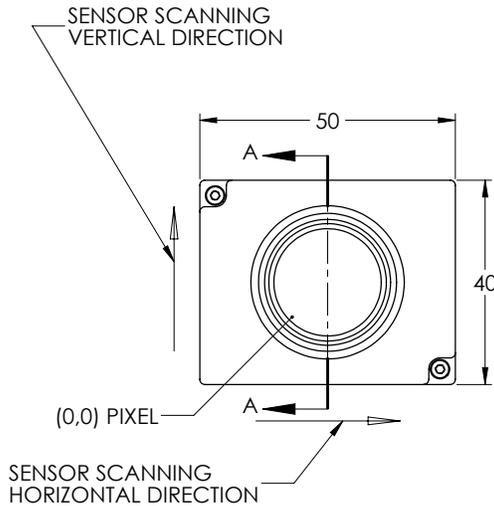
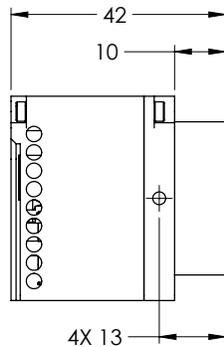
Array Size	Speed
3200 x 2200	51
3200 x 1100	100
3200 x 550	193
3200 x 275	353
3200 x 8	1814
3200 x 2	2074

Accessories (Included)

- USB 3.2 Cable
- Quickstart Guide
- Trigger Cable



SECTION A-A (CROPPED)  
 SCALE 2 : 1



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Specifications in this datasheet are subject to change. Refer to the Teledyne Photometrics website for most current specifications.



[www.photometrics.com](http://www.photometrics.com)  
[photometrics.info@teledyne.com](mailto:photometrics.info@teledyne.com)/ tel: +1 520.889.9933



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