

Winning Team: Top Camera Meets Top CMOS-Sensor

Manta G-235

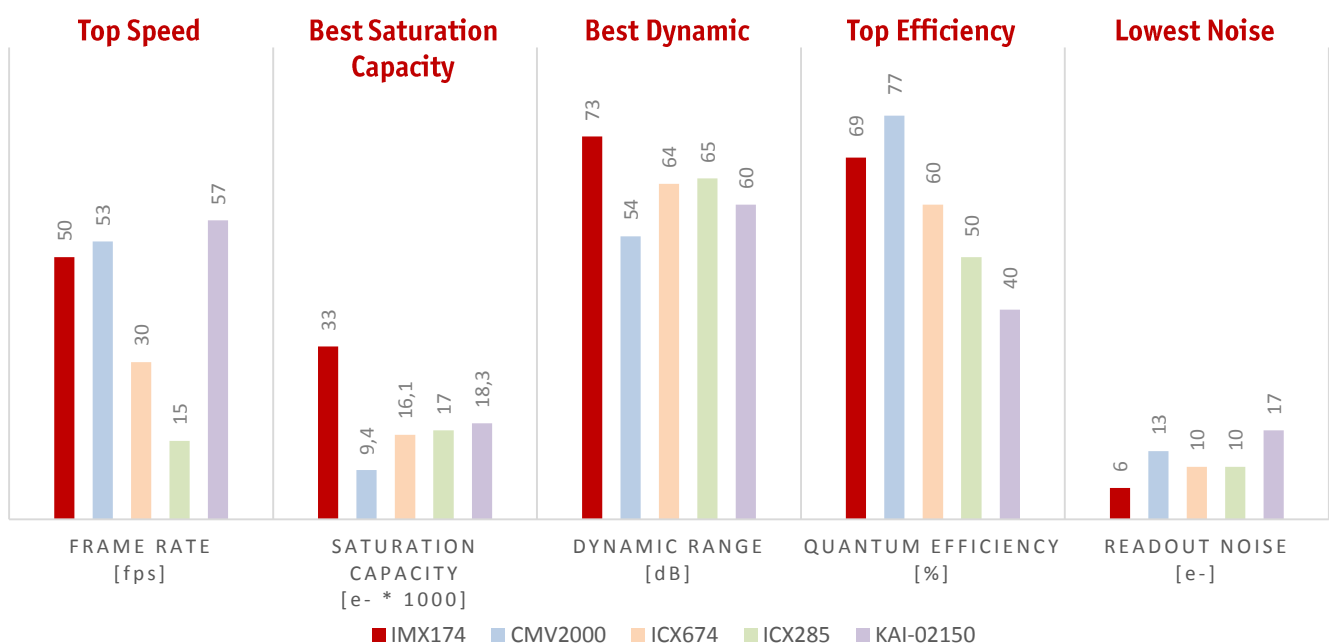
- New Sony IMX174 CMOS sensor (2.3 MP)
- Up to 50.8 fps at full resolution (57 fps at full-HD)
- Superior sensitivity
- High dynamic range



The Manta G-235 features the new Sony IMX174 CMOS sensor with 2.3 Megapixels. Paired with this outstanding sensor, the Manta is probably the best CMOS camera with GigE Vision interface in the market, delivering an amazing image quality with high sensitivity and dynamic range combined with high speed.

Sony IMX174: The new benchmark for CMOS sensors... and CCD

Sony's IMX174 global shutter CMOS sensor is the new benchmark for CMOS sensors but also outperforms comparable CCD imagers in sensitivity, dynamic range and dark noise. Sony's Pregius™ technology is a global shutter pixel technology for active pixel-type CMOS image sensors that use Sony's low-noise CCD structure, and realizes high image quality.



Manta G-235: High-performance camera with fastest GigE Vision frame rate

With the Manta G-235, Allied Vision Technologies offers the best of the Sony IMX174 coupled with high-performance camera hardware delivering best-in-class image quality and speed.

With 50.8 fps at full resolution, **the Manta G-235 is the fastest GigE Vision camera in the market running that sensor.** Unlike other cameras featuring that sensor, the Manta G-235 images at **full 12 bit A/D resolution**, delivering four times the tonal values of 10 bits.

Model	Manta G-235 B/C
Sensor	Sony IMX174 with Sony Exmor technology
Sensor type	1/1.2 CMOS, global shutter
Aspect ration	4:3
Resolution	1936 x 1216 px (2.35 MPixels)
Pixel size	5.86 µm
Frame rate at full resolution	50.8 fps
A/D resolution	12 bit
Dynamic range	73 dB
Saturation capacity	33.000 e ⁻
Quantum Efficiency (at 530 nm)	69%
Dark noise	6 e ⁻

All the benefits of the Manta family



The Manta G-235 comes with all the benefits of the popular **Manta** camera family, including rugged industrial quality, 3-year warranty, industry-proven connectivity as well as different housing variants and filter options. Ask your local sales contact for more information!

**3-year
warranty**

Full HD resolution for outdoor and low light applications

The Manta G-235 is ideal for any application with challenging lighting conditions such as **outdoor imaging**: ITS (traffic monitoring, speed enforcement, automatic toll collection, etc.), surveillance, etc. The resolution can easily be trimmed to Full-HD using the ROI function (Region of Interest). This makes the Manta G-235 attractive for **broadcasting applications** involving image-processing such as sports analytics.

The Manta G-235 is also a perfect fit for any **low-light industrial or scientific application** (e.g. Microscopy).



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