

Manta. Industrial flexibility.

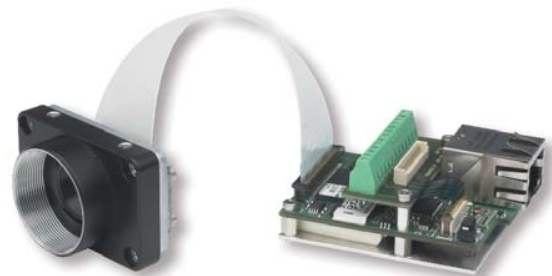


Manta **GIGE** VISION

- Very economical price
- Three programmable 12-bit LUTs, color correction
- Modular design, large choice of housing variants
- Power over Ethernet option (PoE), RS232 included

Manta									
L x W x H = 86.4 x 44 x 29 mm incl. connectors, w/o tripod and lens. Mass < 200 g									
Model	Interface	Resolution	MPixels	Frame rate	Sensortype	Sensor	Cell size	A/D	Memory
G-031B/C	GigE	656 x 492	0.3	125 fps	1/4 CCD	Sony ICX618	5.6 µm	14 bits	32 MB
G-032B/C	GigE	656 x 492	0.3	80 fps	1/3 CCD	Sony ICX424	7.4 µm	12 bits	32 MB
G-033B/C	GigE	656 x 492	0.3	88 fps	1/2 CCD	Sony ICX414	9.9 µm	14 bits	32 MB
G-046B/C	GigE	780 x 580	0.5	67 fps	1/2 CCD	Sony ICX415	8.3 µm	14 bits	32 MB
G-095B/C NEW	GigE	1292 x 734	0.9	40 fps	1/3 CCD	Sony ICX692	4.08 µm	14 bits	32 MB
G-125B/C	GigE	1292 x 964	1.2	30 fps	1/3 CCD	Sony ICX445	3.75 µm	14 bits	32 MB
G-145B/C (-30fps)	GigE	1388 x 1038	1.4	16/31 fps	2/3 CCD	Sony ICX285	6.45 µm	14 bits	32 MB
G-145B NIR	GigE	1388 x 1038	1.4	15 fps	2/3 CCD	Sony ICX285	6.45 µm	14 bits	32 MB
G-146B/C	GigE	1388 x 1038	1.4	17 fps	1/2 CCD	Sony ICX267	4.65 µm	14 bits	32 MB
G-201B/C (-30fps)	GigE	1624 x 1234	2	14/30 fps	1/1.8 CCD	Sony ICX274	4.4 µm	14 bits	32 MB
G-223B/C NEW	GigE	2048 x 1088	2.2	50 fps	2/3 CMOS	CMOSIS CMV2000	5.5 µm	12 bits	128 MB
G-223B NIR NEW	GigE	2048 x 1088	2.2	50 fps	2/3 CMOS	CMOSIS CMV2000	5.5 µm	12 bits	128 MB
G-282B/C NEW	GigE	1936 x 1458	2.8	30 fps	1/1.8 CCD	Sony ICX687	3.69 µm	14 bits	128 MB
G-283B/C NEW	GigE	1936 x 1458	2.8	30 fps	2/3 CCD	Sony ICX674	4.54 µm	14 bits	128 MB
G-419B/C NEW	GigE	2048 x 2048	4.2	25 fps	1/1 CMOS	CMOSIS CMV4000	5.5 µm	12 bits	128 MB
G-419B NIR NEW	GigE	2048 x 2048	4.2	25 fps	1/1 CMOS	CMOSIS CMV4000	5.5 µm	12 bits	128 MB
G-504B/C	GigE	2452 x 2056	5	9 fps	2/3 CCD	Sony ICX655	3.45 µm	14 bits	32 MB
G-609B/C NEW	GigE	2752 x 2206	6	15 fps	1/1 CCD	Sony ICX694	4.54 µm	14 bits	128 MB
G-917B/C NEW	GigE	3384 x 2710	9	10 fps	1/1 CCD	Sony ICX814	3.69 µm	14 bits	128 MB

Manta cameras are optionally available as boardlevel version



Manta Cameras

The Manta is a very economically priced GigE camera. Equipped with programmable LUTs and sophisticated color correction algorithms, the Manta outperforms other GigE cameras in this price class. In addition, board level versions as well as modular options are available. The robust metal housing features optimal quality to ensure a long lifetime.

Options

- Board level versions available
 - Remote sensor head, cable length up to 200 mm
- Modular concept:
 - Various IR cut/pass filters
 - CS/M12-Mount adapters
 - Angled head (only selected models)
 - White medical housing
 - Power over Ethernet
 - Removed cover glass (Manta G-145 only)

Smart Features

- Video-type auto-iris
- ROI (Region of Interest Readout)
- Gain, exposure, white balance
- DSP subregion (selectable ROI for auto features)
- Hue, saturation, sharpness
- Three programmable LUTs, gamma
- Binning, decimation/sub-sampling (not Manta G-032B/C)
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- Event channel, chunk data
- Recorder mode (pre/post trigger recording)
- Storable user sets

Operating Conditions

Power requirements	DC 8 V - 30 V via 12-pin HIROSE/PoE
Power consumption	< 3.6 W (@ 12 V DC); < 4.6 W (PoE/30fps)
Operating temperature	+5 ... +45 °C ambient temperature
Storage temperature	-10 ... +70 °C ambient temperature
Regulations	CE, FCC Class B, RoHS (2011/65/EU)

The AVT Modular Concept

In addition to a comprehensive selection of standard cameras, AVT also offers customized cameras. Many customizing requirements can be covered by the Modular Concept, which provides options to change the camera's form factor, optical filters, and some other options like PoE (Power over Ethernet), angled heads, or several lens mounts. The Modular Concept is available for all AVT cameras. **Each camera family offers different modular options.**

Benefits:

- Reduces customizing effort
- Permits immediate orders
- Leads to quick delivery times
- Offers transparent pricing
- Optimizes the cameras for your needs

