

// ENHANCED

# Manta – Freedom of Choice



The Manta is Allied Vision's versatile GigE vision camera with a wide range of features. Particular highlights are three look-up tables (LUTs), sophisticated color correction capabilities, and numerous modular options – including angled heads and board level versions that enable integration in almost any application. As the Manta family offers a wide variety of sensors, including NIR variants, you can always find precisely the camera model you need for your specific application.

## Key facts

- // VGA to 12 Megapixels
- // Sony CCD, Sony and CMOSIS CMOS sensors
- // Up to 125 fps



## Benefits and features

- // Power over Ethernet (PoE) optional
- // Look-up tables, gamma, color correction
- // Optocoupled I/Os, RS232
- // Binning, decimation
- // Numerous mount and filter options
- // Precision Time Protocol (PTP)
- // Housing options: Board level, angled heads
- // Trigger over Ethernet (ToE)

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE



Model-specific:	G-223	G-235	G-282	G-283
<b>Sensor</b>	CMOSIS CMV2000	Sony IMX174	Sony ICX687	Sony ICX674
<b>Resolution</b>	2048 x 1088	1936 x 1216	1936 x 1458	1936 x 1458
<b>Megapixels</b>	2.2	2.3	2.8	2.8
<b>Sensor type</b>	2/3 CMOS	1/1.2 CMOS	1/1.8 CCD	2/3 CCD
<b>Max. frame rate</b>	53 fps	50 fps	30 fps	30 fps
<b>Cell size</b>	5.5 µm	5.86 µm	3.69 µm	4.54 µm
<b>Standard mount</b>	C-Mount	C-Mount	C-Mount	C-Mount
<b>Mono/color/NIR variant</b>	yes/yes/yes	yes/yes/no	yes/yes/no	yes/yes/no

Model-specific:	G-319	G-419	G-504	G-505
<b>Sensor</b>	Sony IMX265	CMOSIS CMV4000	Sony ICX655	Sony ICX625
<b>Resolution</b>	2064 x 1544	2048 x 2048	2452 x 2056	2452 x 2056
<b>Megapixels</b>	3.1	4.2	5	5
<b>Sensor type</b>	1/1.8 CMOS	1/1 CMOS	2/3 CCD	2/3 CCD
<b>Max. frame rate</b>	37 fps	28 fps	9 fps	15 fps
<b>Cell size</b>	3.45 µm	5.5 µm	3.45 µm	3.45 µm
<b>Standard mount</b>	C-Mount	C-Mount	C-Mount	C-Mount
<b>Mono/color/NIR variant</b>	yes/yes/no	yes/yes/yes	yes/yes/no	yes/yes/no

Model-specific:	G-507	G-609	G-895	G-917	G-1236
<b>Sensor</b>	Sony IMX264	Sony ICX694	Sony IMX267	Sony ICX814	Sony IMX304
<b>Resolution</b>	2464 x 2056	2752 x 2206	4112 x 2176	3384 x 2710	4112 x 3008
<b>Megapixels</b>	5	6	8.95	9.1	12.3
<b>Sensor type</b>	2/3 CMOS	1/1 CCD	1/1 CMOS	1/1 CCD	1.1 CMOS
<b>Max. frame rate</b>	23 fps	15 fps	13.4 fps	10 fps	9.7 fps
<b>Cell size</b>	3.45 µm	4.54 µm	3.45 µm	3.69 µm	3.45 µm
<b>Standard mount</b>	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
<b>Mono/color/NIR variant</b>	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

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



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