

GV-7090WP-M-GL (1007770)



In series

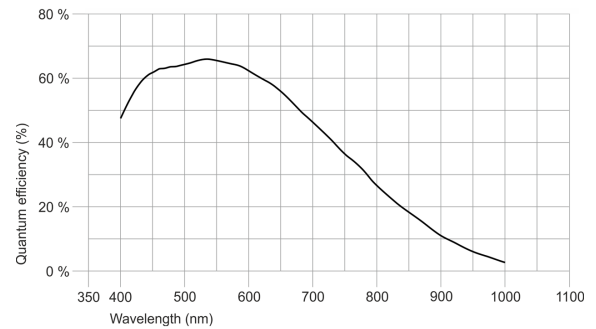
The model is in series and available for the long term.



Specification

Sensor

Sensor type	CMOS Mono
Shutter	Global Shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	9 MP
Resolution	8.85 Mpix
Resolution (h x v)	4096 x 2160 Pixel
Aspect ratio	17:9
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1"
Optical Size	14.131 mm x 7.452 mm
Optical sensor diagonal	15.98 mm (1/1")
Pixel size	3.45 µm
Manufacturer	Sony
Sensor Model	IMX255LLR-C
Gain (master/RGB)	24x/4x
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	264 / 8
AOI image height / step width	1 / 1
AOI position grid (horizontal/vertical)	8 / 1
Binning horizontal	increased frame rate
Binning vertical	increased frame rate
Binning method	M/C automatic
Binning factor	2 / 4 / 8
Subsampling horizontal	same frame rate
Subsampling vertical	same frame rate
Subsampling method	M/C automatic
Subsampling factor	2, 4, 8



Model

Frame rate freerun mode	58*
Frame rate trigger (maximum)	58
Exposure time (minimum - maximum)	0.032 ms - 2000 ms
Long exposure (maximum)	90000 ms
Power consumption	10 W - 14 W
Image memory	2032 MB

* Maximum frame rate achievable with upcoming firmware to be released shortly. For now, the maximum frame rate has to remain at 50 fps.

Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.

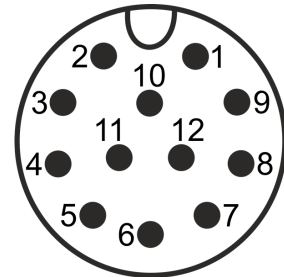
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	GigE RJ45, screwable
I/O connector	12-pin M12 connector (Attend 216A-12MSR)
Power supply	12 V - 24 V or PoE+

Pin assignment I/O connector

1	Power supply 12-24 V DC (VBUS)
2	Reference level (ground) for power supply (VBUS GND)
3	Trigger input with optocoupler (Opto IN 0) - Line 0
4	Common reference level for all Opto OUT (Opto OUT COM)
5	Common reference level for all Opto IN (Opto IN COM)
6	Input 1 with optocoupler (Opto IN 1) - Line 1
7	Output 1 with optocoupler (Opto OUT 1) - Line 4
8	Fast output 2 with optocoupler (Opto OUT 2 fast) - Line 5
9	Power supply for fast outputs (Opto OUT VCC fast), max. 5V DC
10	Fast output 3 with optocoupler (Opto OUT 3 fast) - Line 6
11	Input 2 with optocoupler (Opto IN 2) - Line 2
12	Flash output with optocoupler (Opto OUT 0) - Line 3



Camera rear view

Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	60.0 mm x 75.0 mm x 94.5 mm
Mass	550 g