

## GV-5990FA-C-HQ (AB03510)



### In series

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

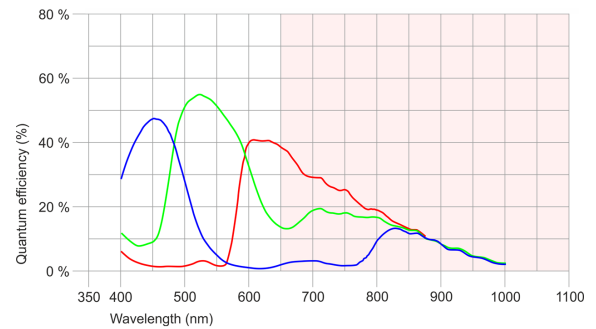


## Specification

**- PRELIMINARY -**

### Sensor

Sensor type	CMOS Color
Shutter	Global Shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	20 MP
Resolution	20.36 Mpix
Resolution (h x v)	4512 x 4512 Pixel
Aspect ratio	1:1
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1.1"
Optical Size	12.363 mm x 12.363 mm
Optical sensor diagonal	17.48 mm
Pixel size	2.74 µm
Manufacturer	Sony
Sensor Model	IMX541AAQJ-C
Gain (master/RGB)	15.9x/-
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	256 / 8
AOI image height / step width	2 / 2
AOI position grid (horizontal/vertical)	8 / 2
Binning horizontal	same frame rate
Binning vertical	same 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



Subject to technical modifications (2022-09-27)

## Model

Frame rate freerun mode	5.5 fps
Frame rate trigger (continuous)	5.5 fps
Frame rate trigger (maximum)	5.5 fps
Exposure time (minimum - maximum)	0.042 ms - 2000 ms
Long exposure (maximum)	104000 ms
Power consumption	1.9 W - 4.5 W
Image memory	128 MB

## Ambient conditions

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

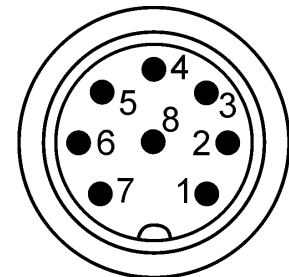
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	0 % - 100 %

## Connectors

Interface connector	GigE M12, screwable
I/O connector	8-pin Binder connector (Binder series 712: 09-0427-020-08)
Power supply	12 V - 24 V or PoE

## Pin assignment I/O connector

1	Trigger input with optocoupler (+)
2	Input power supply (VCC) 12-24 V DC
3	General Purpose I/O (GPIO) 1
4	Ground (GND)
5	Flash output with optocoupler (+)
6	Flash output with optocoupler (-)
7	Trigger input with optocoupler (-)
8	General Purpose I/O (GPIO) 2



Camera rear view

## Design

Lens Mount	C-Mount
IP code	IP65/67
Dimensions H/W/L	41.0 mm x 53.0 mm x 42.7 mm
Mass	173 g