

In development
The model is not yet in series production, but will be introduced shortly.

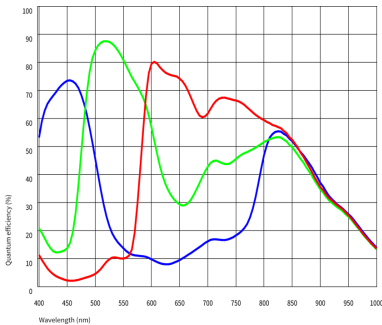


Specification

- PRELIMINARY -

Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Readout mode	-
Pixel Class	5 MP
Resolution	5.11 Mpix
Resolution (h x v)	2608 x 1960 Pixel
Aspect ratio	4:3
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1/3"
Optical Size	5.216 mm x 3.920 mm
Optical sensor diagonal	6.52 mm 1/2.8"
Pixel size	2 µm
Manufacturer	Sony
Sensor Model	IMX675-AAQR1-C
Gain (master/RGB)	26.8x/16x
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	256 / 2
AOI image height / step width	2 / 2
AOI position grid (horizontal/vertical)	2 / 2
Binning horizontal	increased frame rate
Binning vertical	increased frame rate
Binning method	
Binning factor	2x2
Decimation (subsampling) horizontal	-
Decimation (subsampling) vertical	-
Decimation (subsampling) method	M/C automatic
Decimation (subsampling) factor	-



Model

Frame rate freerun mode	75 fps
Frame rate trigger (continuous)	75 fps
Frame rate trigger (maximum)	75 fps
Exposure time (minimum - maximum)	0.0061 ms - 1999 ms
Long exposure (maximum)	120036 ms
Power consumption	1.6 W - 2.9 W
Image memory	-

Ambient conditions

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

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

Connectors

Interface connector	USB 3.0 micro-B, screwable
I/O connector	8-pin Hirose connector (HR25-7TR-8PA(73))
Power supply	USB cable

Pin assignment I/O connector

1	Ground (GND)
2	Flash output with optocoupler (-) - Line 1
3	General Purpose I/O (GPIO) 1 - Line 2
4	Trigger input with optocoupler (-) - Line 0
5	Flash output with optocoupler (+) - Line 1
6	General Purpose I/O (GPIO) 2
7	Trigger input with optocoupler (+) - Line 0
8	Output supply voltage, 5 V (100 mA)



Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	29.0 mm x 29.0 mm x 29.0 mm
Mass	50 g
Housing material	Magnesium / stainless steel

Features

List of on-camera image pre-processing features.

All features of the table are available via our IDS peak software for image pre-processing on the host computer (sensor model dependent).

Image Acquisition

Freerun	✓
Software trigger	✓
Hardware trigger	✓
Trigger controlled exposure	-
Denoiser	✓
Long exposure	✓
Line scan	-
Global start	-

Flashing

Flashing	-
PWM flashing	-

Subject to technical modifications (2026-03-30)

U3-34F0CP-C-HQ Rev.2.3 (1012591)

Image Adjustments

Auto exposure	-
Auto gain	-
Auto whitebalance	-
Color correction	-
Gamma	-
LUT	-
Mirror/flip	X/Y

On-board Image Processing

Pixel formats	BayerRG8 BayerRG10p BayerRG12 BayerRG12p BayerRG10
Region of interest	✓
Decimation (FPGA)	✓
Decimation (Sensor)	
Binning (FPGA)	✓
Binning (Sensor)	2x2 Increases frame rate.

Others

Chunks	-
Sequencer	-
Events	✓
Firmware update	✓
1st supported firmware version	