UI-5860FA-M-GL Rev.1.2 (AB12578)

Discontinued
The model has been discontinued.

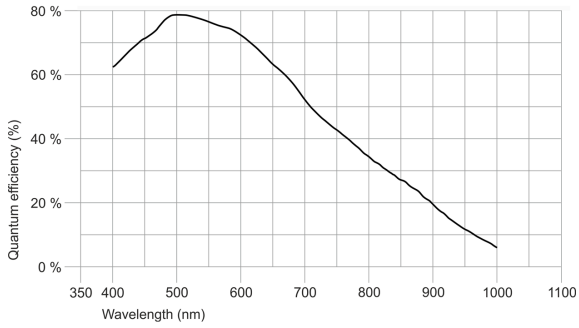




Specification

Sensor

Sensor type	CMOS Mono
Shutter	Rolling shutter / Global Start Shutter
Sensor characteristic	Linear
Pixel Class	2 MP
Resolution	2.12 Mpix
Resolution (h x v)	1936 x 1096 Pixel
Aspect ratio	16:9
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1/2.8"
Optical Size	5.614 mm x 3.178 mm
Optical sensor diagonal	6.45 mm 1/2.8"
Pixel size	2.9 µm
CRA (Chief Ray Angle)	0 °
Manufacturer	Sony
Sensor Model	IMX290LLR-C
Gain (master/RGB)	20x/5x
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	32 / 8
AOI image height / step width	2 / 2
AOI position grid (horizontal/vertical)	4 / 2
Binning horizontal	-
Binning vertical	-
Binning method	-
Binning factor	-
Decimation (subsampling) horizontal	same frame rate
Decimation (subsampling) vertical	same frame rate
Decimation (subsampling) method	M/C automatic



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Model

Pixel clock range	20 MHz - 160 MHz
Frame rate freerun mode	53 fps
Frame rate trigger (continuous)	27 fps
Frame rate trigger (maximum)	27 fps
Exposure time (minimum - maximum)	0.02 ms - 999 ms
Long exposure (maximum)	120000 ms
Power consumption	1.7 W - 2.5 W
Image memory	128 MB
Special features	IDS line scan mode Sensor source gain

Ambient conditions

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

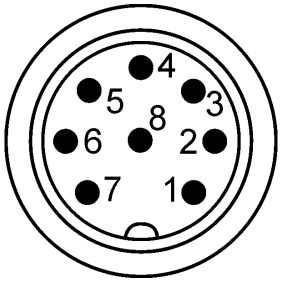
Allowed device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Allowed ambient temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	0 % - 100 %

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



Design

Lens Mount	C-Mount
IP code	IP65, IP67
Dimensions H/W/L	41.0 mm x 53.0 mm x 42.7 mm
Mass	172 g
Housing material	Aluminum

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	✓

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Flashing	Flashing	-
	PWM flashing	-
Image Adjustments	Auto exposure	-
	Auto gain	-
	Auto whitebalance	-
	Color correction	-
	Gamma	-
	LUT	-
	Mirror/flip	-
On-board Image Processing	Pixel formats	
	Region of interest	✓
	Decimation (FPGA)	-
	Decimation (Sensor)	(2,4)x(2,4)
	Binning (FPGA)	-
Others	Chunks	-
	Sequencer	-
	Firmware update	-
	1st supported firmware version	4.96.1

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