GL-54J0SCP-C-HQ (1011042)

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



Specification

Streaming

Streams	2x RTSP 1x HTTP
Resolution	1920x1080 @ 30 fps 1440x1080 @ 30 fps 1280x720 @ 30 fps 640x480 @ 30 fps
Compression	MJPEG H.264

Event Recorder

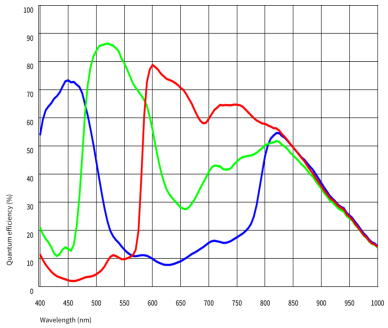
Recording duration (maximum)	120 s
Pre-event time (maximum)	60 s
Post-event time (maximum)	60 s
Usable storage	1.3 GiB
Event trigger	Hardware Input WebCockpit REST-API

IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

GL-54J0SCP-C-HQ (1011042)

Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Pixel Class	8 MP
Resolution	8.29 Mpix
Resolution (h x v)	3840 x 2160 Pixel
Aspect ratio	16:9
ADC	12 bit
Color depth (camera)	8 bit
Optical sensor class	1/1.8"
Optical Size	7.680 mm x 4.320 mm
Optical sensor diagonal	8.81 mm 1/1.8"
Pixel size	2 µm
CRA (Chief Ray Angle)	0 °
Manufacturer	Sony
Sensor Model	IMX678-AAQR1-C



Model

Exposure time (minimum - maximum)	0.029 ms - 33.299 ms
Power consumption	0 W - 0 W

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)	20 % - 80 %

Connectors

Interface connector	GigE RJ45, screwable
I/O connector	8-pin Hirose connector (HR25-7TR-8PA(73))
Power supply	12 V - 24 V

Pin assignment I/O connector

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



Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	29.0 mm x 29.0 mm x 29.0 mm
Mass	47 g
Housing material	Magnesium / stainless steel

IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

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 Adjustments	Auto exposure	✓
	Auto gain	✓
	Auto whitebalance	✓
	Color correction	-
	Gamma	-
	LUT	-
	Mirror/flip	X/Y
Others	Firmware update	✓
	1st supported firmware version	1.0.0

IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

SFA10.69.G1.IMX678.CIR.C (1012895)

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





Specification

Streaming

Streams	2x RTSP 1x HTTP
Resolution	1920x1080 @ 30 fps 1440x1080 @ 30 fps 1280x720 @ 30 fps 640x480 @ 30 fps
Compression	MJPEG H.264

Event Recorder

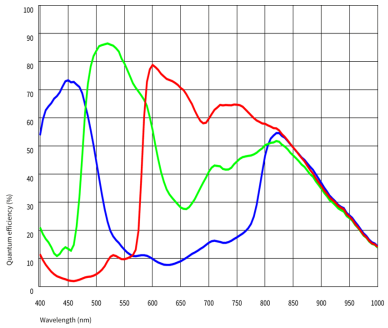
Recording duration (maximum)	120 s
Pre-event time (maximum)	60 s
Post-event time (maximum)	60 s
Usable storage	1.31 GiB
Event trigger	Hardware Input WebCockpit REST-API

IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

SFA10.69.G1.IMX678.CIR.C (1012895)

Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Pixel Class	8 MP
Resolution	8.29 Mpix
Resolution (h x v)	3840 x 2160 Pixel
Aspect ratio	16:9
ADC	12 bit
Color depth (camera)	0 bit
Optical sensor class	1/1.8"
Optical Size	7.680 mm x 4.320 mm
Optical sensor diagonal	8.81 mm 1/1.8"
Pixel size	2 µm
CRA (Chief Ray Angle)	0 °
Manufacturer	Sony
Sensor Model	IMX678-AAQR1-C



Model

Exposure time (minimum - maximum)	0.029 ms - 33.299 ms
Power consumption (Power over Ethernet)	4 W
Power consumption (external power supply)	3.9 W

Ambient conditions

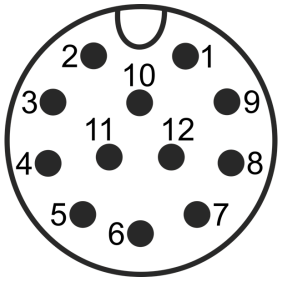
The temperature values given below refer to the outer device temperature of the camera housing.

Allowed device temperature during operation	-20 °C - 55 °C / -4 °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	
Power supply	12 V - 24 V or PoE

Pin assignment I/O connector



1	Power supply (VCC) 12-24 V
2	Power supply, ground
3	Input 2, with optocoupler (+)
4	
5	Input 1, with optocoupler (-)
6	Output 1, with optocoupler (-)
7	Output 1, with optocoupler (+)
8	Output 2, with optocoupler (+)
9	General Purpose I/O (GPIO) 1, 3.3 V
10	General Purpose I/O (GPIO) 2, 3.3 V
11	Input 2, with optocoupler (-)
12	Output 2, with optocoupler (+)

IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

SFA10.69.G1.IMX678.CIR.C (1012895)

Design

Lens Mount	C-Mount
IP code	IP66, IP67, IP69, IPx9K
Dimensions H/W/L	41.0 mm x 53.0 mm x 42.7 mm
Mass	175 g
Housing material	Aluminum

Features

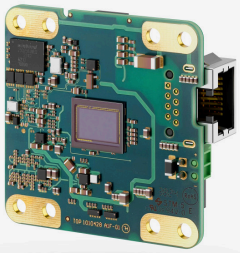
List of on-camera image pre-processing features.
All features of the table are available via our IDS peak software for image pre-processing on the host computer (sensor model dependent).

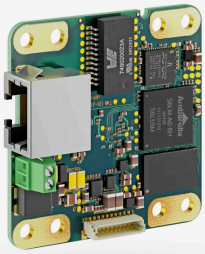
Image Adjustments	Auto exposure	✓
	Auto gain	✓
	Auto whitebalance	✓
	Color correction	-
	Gamma	-
	LUT	-
	Mirror/flip	X/Y
Others	Firmware update	✓
	1st supported firmware version	1.3.2

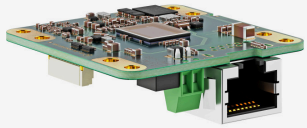
IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

GL-54J2SLE-C (1011495)

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







Specification

Streaming

Streams	2x RTSP 1x HTTP
Resolution	1920x1080 @ 30 fps 1440x1080 @ 30 fps 1280x720 @ 30 fps 640x480 @ 30 fps
Compression	MJPEG H.264

Event Recorder

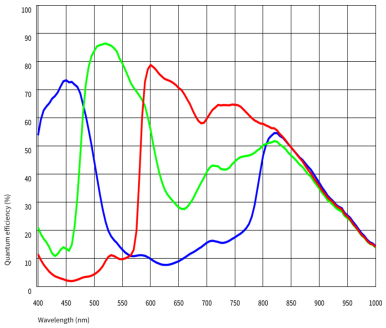
Recording duration (maximum)	120 s
Pre-event time (maximum)	60 s
Post-event time (maximum)	60 s
Usable storage	1.3 GiB
Event trigger	Hardware Input WebCockpit REST-API

IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

GL-54J2SLE-C (1011495)

Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Pixel Class	8 MP
Resolution	8.29 Mpix
Resolution (h x v)	3840 x 2160 Pixel
Aspect ratio	16:9
ADC	12 bit
Color depth (camera)	8 bit
Optical sensor class	1/1.8"
Optical Size	7.680 mm x 4.320 mm
Optical sensor diagonal	8.81 mm 1/1.8"
Pixel size	2 µm
CRA (Chief Ray Angle)	0 °
Manufacturer	Sony
Sensor Model	IMX678-AAQR1-C



Model

Exposure time (minimum - maximum)	0.029 ms - 33.299 ms
Power consumption	0 W - 0 W

Ambient conditions

For PCB versions, refer to the separate hints in the respective documentation.

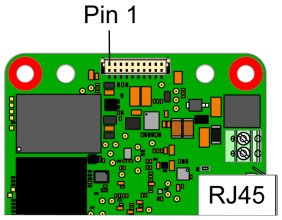
Allowed device temperature during operation	0 °C - 70 °C / 32 °F - 158 °F
Allowed ambient temperature during operation	0 °C - 30 °C / 32 °F - 86 °F
Allowed ambient temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	GigE RJ45
I/O connector	10-pin Wuerth connector (WR-WTB 1.00 mm)
Power supply	12 V - 24 V

Pin assignment I/O connector

1	Power supply (VCC) 12-24 V
2	Power supply, ground
3	General Purpose I/O (GPIO) 2, 3.3 V
4	General Purpose I/O (GPIO) 1, 3.3 V
5	Reset (-) [GND]
6	Reset (+)
7	Trigger input without optocoupler 3.3 V
8	Flash output without optocoupler 3.3 V
9	Ground (GND)
10	Voltage output 3.3 V, max. 300 mA



Design

Lens Mount	No mount
IP code	-
Dimensions H/W/L	45.0 mm x 45.0 mm x 15.0 mm
Mass	15 g
Housing material	-

IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

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 Adjustments	Auto exposure	✓
	Auto gain	✓
	Auto whitebalance	✓
	Color correction	-
	Gamma	-
	LUT	-
	Mirror/flip	X/Y
Others	Firmware update	✓
	1st supported firmware version	1.1.0

IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com