

CC1 Series GigE Industrial Area Scan Camera



Product Features

- Gigabit Ethernet interface, with a maximum transmission distance of up to 100 meters.
- 256MB onboard cache for data transfer or image retransmission in burst mode.
- Supports various triggering functions such as software trigger, hardware trigger, and free-run acquisition.
- Supports multiple image data output formats, gain adjustment, and mirroring, etc.
- Supports ISP (Image Signal Processing) functions such as gamma correction, contrast adjustment, brightness adjustment, and LUT.
- Compatible Gige vision 2.0 and Gen I cam.

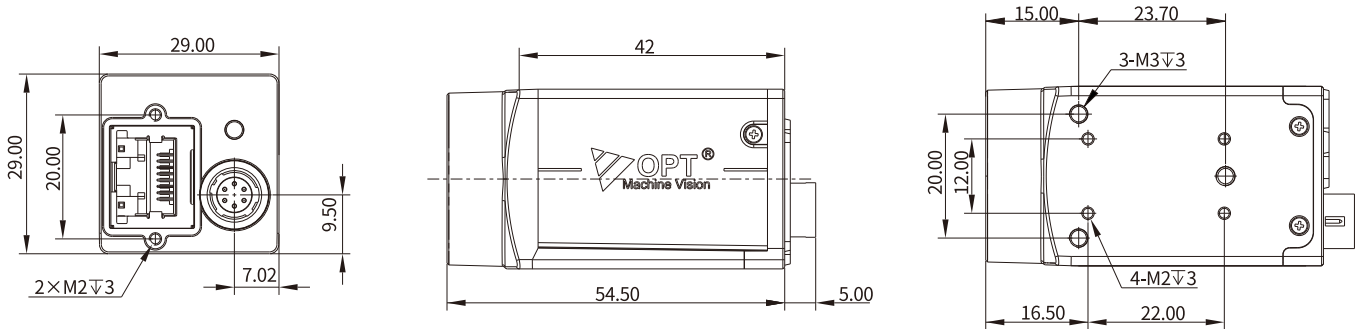
Product model and parameters

Mono/Color	C	M
Image format	Mono8/ 10/ 10Packed/12/ 12Packed	Mono8/10/12,BayerRG 8/10/10Packed/12/12Packed, YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8
Bit Depth	8/10/12	
ROI (Region of Interest)	Supports	
Gamma	0~3,999	
Synchronization	Software trigger/hardware trigger/free run	
Image Buffer	256MB	
Storage Channel	Supports saving 3 sets of user-defined configurations	
Digital I/O	6-pin Hirose interface, 1 optically isolated input, 1 optically isolated output, 1 configurable input/output without optical isolation	
Dimensions	29mm×29mm×42mm (excluding lens mount and rear shell interface)	
Weight	<95g	
Power Supply	DC auxiliary power supply via Hirose interface, voltage range 9V~24V	
Camera interface	GigE, PoE	
Lens Mount	C	
Standards	Compliant with GigE Vision 2.0 and GenICam standards	
Temperature	Storage temperature: -30°C~+80°C; operating temperature: 0°C~+50°C	

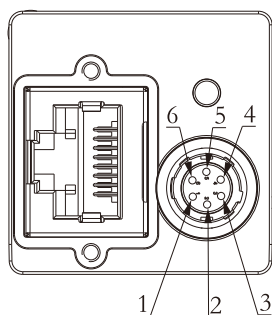
Product model and parameters

Model	Resolution	Pixel Size (μm ²)	Chip Type	Exposure Mode	Frame Rate (fps)	Chip Size	Sensor Model	Exposure Time	Power Consumption	Mono/Color
OPT-CC1-M004-GG1-10	720×540	6.9	CMOS	Global	303.21	1/2.9"	IMX287	1μs~4s	2.8W@12 VDC	M
OPT-CC1-M013-GG6-11	1280×1024	4	CMOS	Global	89	1/2.7"	SC130GS	16μs~10s	2.2W@12 VDC	M
OPT-CC1-M016-GG3-10	1440×1080	4	CMOS	Global	64.8	1/1.7"	GMAX4002	1μs~10s	2.1W@12 VDC	M
OPT-CC1-M020-GG3-10	1600×1200	4	CMOS	Global	58.6	1/1.7"	GMAX4002	1μs~10s	2.2W@12 VDC	M
OPT-CC1-M050-GR0-11	2592×1944	2.2	CMOS	Rolling	23.38	1/2.5"	AR0521	15μs~1s	2.2W@12 VDC	M
OPT-CC1-M050-GG3-14	2448×2048	3.4	CMOS	Global	23.5	2/3"	GMAX3405	6μs~4s	2.6W@12 VDC	M
OPT-CC1-M050-GG1-11	2448×2048	3.45	CMOS	Global	23.5	2/3"	IMX264	1μs~4s	2.4W@12 VDC	M
OPT-CC1-M060-GR1-10	3072×2048	2.4	CMOS	Rolling	18.7	1/1.8"	IMX178	24μs~1.3s	2.1W@12 VDC	M
OPT-CC1-M100-GR0-10	3840×2748	1.67	CMOS	Rolling	7.4	1/2.5"	MT9J003	6μs~1s	2.4W@12 VDC	M
OPT-CC1-M120-GR1-10	4024×3036	1.85	CMOS	Rolling	9.6	1/1.7"	IMX226	35μs~1.7s	2.1W@12 VDC	M
OPT-CC1-M200-GR1-10	5472×3648	2.4	CMOS	Rolling	5.9	1"	IMX183	45μs~2.3s	2.4W@12 VDC	M
OPT-CC1-C004-GG1-00	720×540	6.9	CMOS	Global	303.21	1/2.9"	IMX287	1μs~4s	3.2W@12 VDC	C
OPT-CC1-C013-GG6-11	1280×1024	4	CMOS	Global	89	1/2.7"	SC130GS	16μs~10s	3.1W@12 VDC	C
OPT-CC1-C016-GG3-00	1440×1080	4	CMOS	Global	64.8	1/1.7"	GMAX4002	1μs~10s	3.0W@12 VDC	C
OPT-CC1-C020-GG3-00	1600×1200	4	CMOS	Global	58.6	1/1.7"	GMAX4002	1μs~10s	3.4W@12 VDC	C
OPT-CC1-C050-GR0-00	2592×1944	2.2	CMOS	Rolling	23.38	1/2.5"	AR0521	15μs~1s	2.8W@12 VDC	C
OPT-CC1-C050-GG3-00	2448×2048	3.4	CMOS	Global	23.5	2/3"	GMAX3405	6μs~4s	3.6W@12 VDC	C
OPT-CC1-C050-GG1-00	2448×2048	3.45	CMOS	Global	23.5	2/3"	IMX264	1μs~4s	3.2W@12 VDC	C
OPT-CC1-C060-GR1-00	3072×2048	2.4	CMOS	Rolling	18.7	1/1.8"	IMX178	24μs~1.3s	3.0W@12 VDC	C
OPT-CC1-C080-GR0-00	3840×2160	2	CMOS	Rolling	14.2	1/1.8"	AR0822	1μs~1s	2.7W@12 VDC	C
OPT-CC1-C120-GR1-00	4024×3036	1.85	CMOS	Rolling	9.6	1/1.7"	IMX226	35μs~1.7s	2.8W@12 VDC	C
OPT-CC1-C200-GR1-00	5472×3648	2.4	CMOS	Rolling	5.9	1"	IMX183	45μs~2.3s	3.1W@12 VDC	C

Dimensions (mm)



IO Interface Description

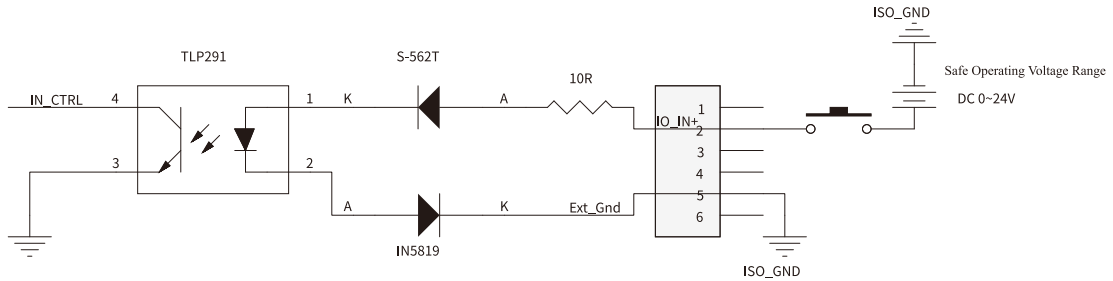


Pinouts	Signal	Explanation
1	Power	DC 12V~24V Camera Power Supply
2	Line1	Opto-isolated input
3	Line3	GPIO (non-isolated software configurable input/output)
4	Line2	Opto-isolated output
5	ISO_GND	Opto-isolated signal ground
6	GND	Power ground and GPIO signal ground

IO Circuit Diagram

1. Opto-isolated Input

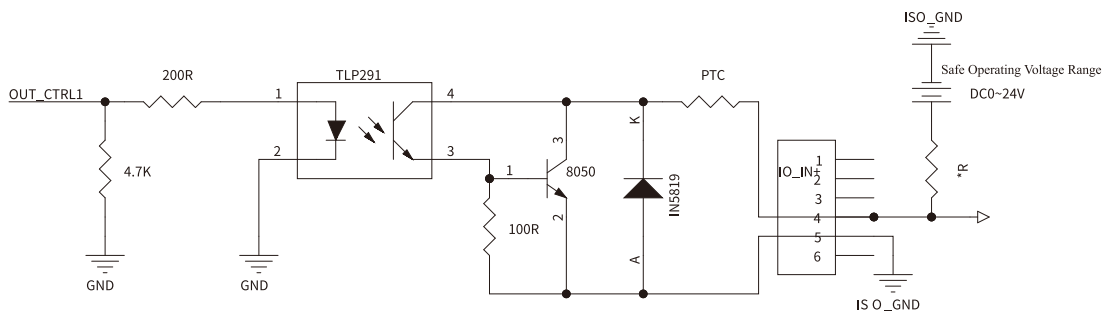
Isolated I/O input port is injected with current of 5mA~15mA.



Opto-isolated Input Circuit Diagram

2. Opto-isolated Output

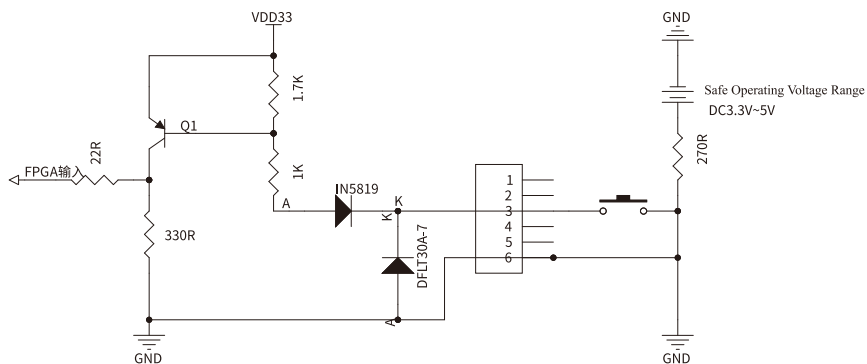
Isolated I/O output port maximum continuous current: 50mA.



Opto-isolated output circuit diagram

3. GPIO Input

When the user external input logic is 0, the maximum sink current is 2mA, and when the input logic is 0, the maximum sink current at the interface is 100uA.

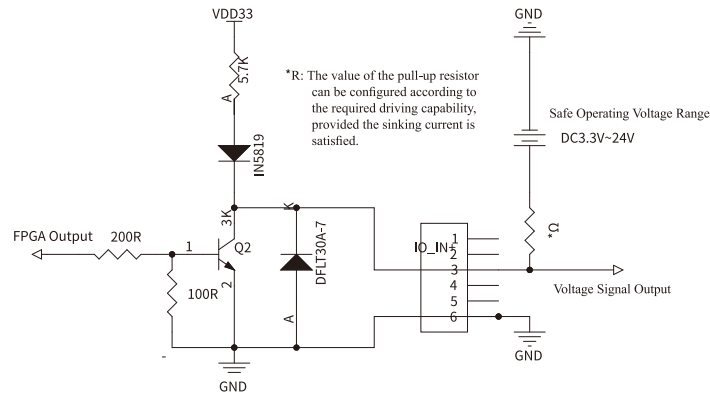


GPIO Input Circuit Diagram

IO Circuit Diagram

4. GPIO Output

When used as an output, the IO port can sink a maximum current of 50mA.



GPIO Output Circuit Diagram

Accessories

Capture Card

Model	OPT-G1G-J4-P-02
Chipset	Intel I210-AT
Bus Interface	4×PCIe 2.0
Physical Interface	4×RJ45
Transfer Speed	10/100/1000 Mbps
OS Support	Windows 7/Windows 10/Windows 11, Linux
Appearance Illustration	

Cable

Cable Type		6-pin IO Cable with Power Adapter	6-pin IO Cable	Data cable	
Cable Material/ Length	Static	3M	CB-HR10-6F008-S3M	CB-HR10-6F003-S3M	CB-GE-RJ45SRJ45-S3M
		5M	CB-HR10-6F008-S5M	CB-HR10-6F003-S5M	CB-GE-RJ45SRJ45-S5M
		10M	CB-HR10-6F008-S10M	CB-HR10-6F003-S10M	CB-GE-RJ45SRJ45-S10M
	High Flexibility	3M	CB-HR10-6F008-R3M	CB-HR10-6F003-R3M	CB-GE-RJ45SRJ45-R3M
		5M	CB-HR10-6F008-R5M	CB-HR10-6F003-R3M	CB-GE-RJ45SRJ45-R5M
		10M	CB-HR10-6F008-R10M	CB-HR10-6F003-R10M	CB-GE-RJ45SRJ45-R10M
Appearance Illustration					