

# Binocular structured-light 3D camera

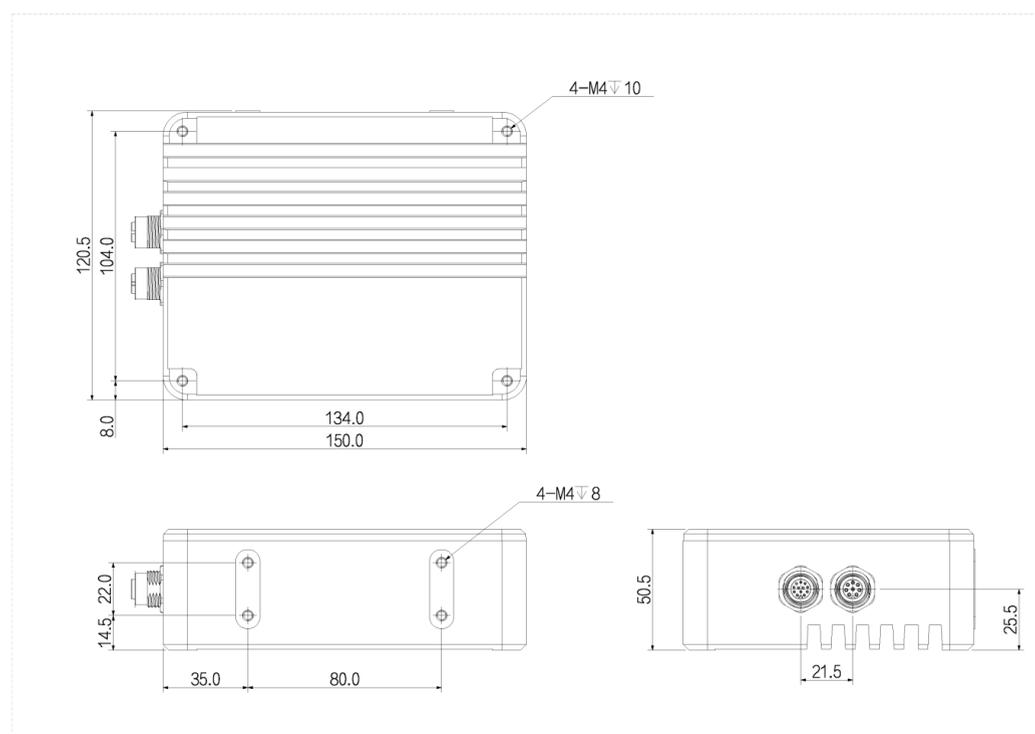
## DS5131MG30CE



### Features

- Built-in algorithm supports high-precision volume measurement and 3D object location;
- Small dimension and high integration make better cost performance and smaller installation space;
- Speckle-module illumination makes light uniform and reliable;
- Excellent filter design depressed light from environment;
- 4 indicators are used to debug and function display;
- Industrial-grade M12 connector, IP65 protection level;
- Support multi-cameras cascade;

### Dimensions (mm)



## Specification

Model		DS5131MG30CE
Basic	Series	5000 Series
	Resolution	Mono : 1280 × 1024 ; Color : 1280 × 1024
	Max. Frame rate	40
	Sensor Type	Mono : 1/2.7"CMOS ; Color : 1/2.7"CMOS
	Shutter Mode	Global
	Pixel Size	Mono : 4.0μm × 4.0μm ; Color : 4.0μm × 4.0μm
	Mono/Color	Mono&Color
	Lens Mount	M12
	Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
	Software	SCV
	Certifications	CE , FCC
	Function	Volume measurement , Positioning guide
Performance	Near FoV	680 mm × 620 mm
	Far FoV	4000 mm × 3200 mm
	Working Distance	600 mm-3500 mm
	Measuring Range	Measurable package dimensions for 1000mm mounting height : 30mm×30mm×1mm~400mm×400mm×400mm Measurable package dimensions for 1800mm mounting height : 30mm×30mm×1mm~800mm×800mm×800mm
	Z-axis Accuracy	1m@±2mm
	Data Type	Color map, depth map, points cloud, dimension;
	Light Source Type	Illuminator module
	Laser Grade	class3
Port	Connector	2 industrial-grade connector supports Ethernet and GPIO
	Network Port	Code-A, GigE Ethernet
	GPIO Interface	2 isolated input
	Communication Mode	Ethernet、RS232
	Communication protocol	SDK , Serial , TCPServer , TCPClient , UDP , Profinet
	LED Indicator	Power ethernet, network, trigger, laser
Power	Power Supply	Support DC12V-24V wide-range power supply, suitable for DC12V/24V voltage environment;
	Power Consumption	< 10.0 W
Structure	Product Dimensions	150 mm×120 mm×50.5 mm(Not including connector height)
	Packaging Dimensions	367 mm × 255 mm × 144 mm
	Net Weight	< 1000 g

	Gross Weight	< 2500 g
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Model		DS5131MG30CE
Structure	Protection	IP65
	Casing Material	Aluminium alloy
Environment	Operating Temperature	-20°C-+50°C
	Operating Humidity	20%-95%, condensation
	Storage Temperature	-30°C-+80°C

## Connector Pin-out

Port definitions of 12-pin signals:

Pin	Signal	Description
1	DIFF+	Differential Input+
2	DIFF-	DifferentialOutput-
3	SIGNAL_GND	Signal GND
4	OPT_IN1	Opto input1
5	COM_RXD	Serial receive
6	OPT_IN_GND	Opto input GND
7	POWER	Power supply
8	POWER_GND	Powe GND
9	OPT_OUT_GND	Opto output GND
10	OPT_IN2	Opto input2
11	OPT_OUT	Opto output
12	COM_TXD	Serial send
Shield	SGND	Sheild GND

Port definitions of 12-pin signals

