

A3131MG100E

- 1Gbps Ethernet interface , max 100m transmission
- 128MB on-board frame buffer
- Support multiple image data formats
- Software trigger/Hardware trigger/Free run mode
- Compatible with GigE Vision V2.0 protocol and GenICam standard



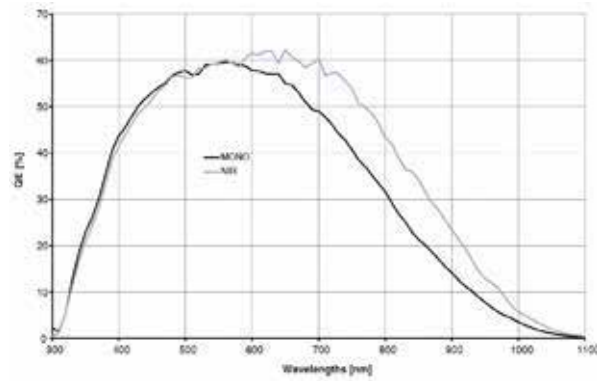
Specification

Model	Sensor	Sensor type	Shutter	Resolution	Frame rate (fps)	Bit depth	Interface	Mono/Color	Pixel size (μ m)	Sensor size
A3131MG100E	PYTHON 1300	CMOS	Global	1280 x 1024	60	10	GigE	Mono	4.8 x 4.8	1/2"

Model	A3131MG100E
Effective Pixels	1.3MP
SNR	>38dB
Dynamic Range	60dB
GPIO	6 pin Hirose: 1 Opto-isolated input, 1 Opto-isolated output, 1 configurable input/output without opto isolation
Image Format	Mono8/10/10Packed
Binning	Support
Gain	X1~X32
Gamma	Range from 0 to 4, support LUT
Exposure Time	1 μ s~1s
Trigger Mode	Software trigger/Hardware trigger/Free run mode
Image Buffer	64MB
User Setting	Support two sets of user-defined configurations
Dimensions	29mmx29mmx29mm(not including lens mount and rear case connector)
Weight	60g
Power Supply	DC power supply by Hirose connector, with voltage range from 6V to 26V
Power Consumption	12V \approx 2.8W
Lens Mount	C
Temperature	Storage temperature: -30° C~ + 80° C; Operation temperature: -30° C~+50° C

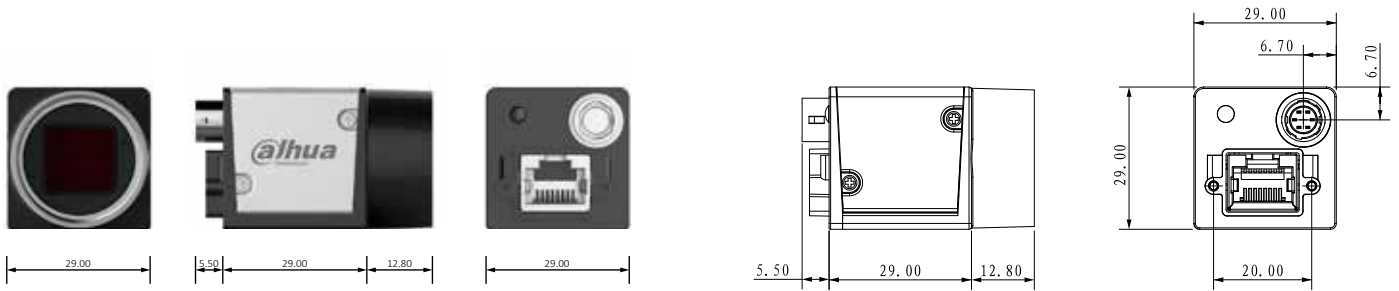
Spectrogram

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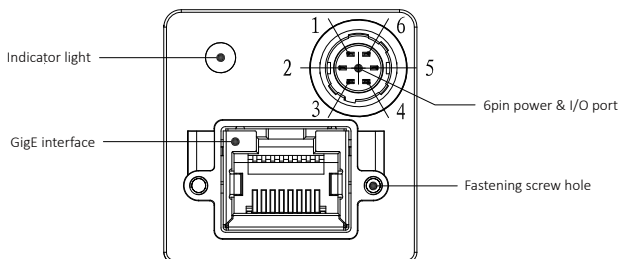


Quantum Efficiency Curve for Mono Sensor

Dimensions



IO Interface Instruction



Pin	Signal	Description
1	Power	DC 6V-26V input
2	Line1	Opto-isolated input
3	Line2	Configurable IO input/output
4	Line0	Opto-isolated output
5	IO GND	Opto-isolated ground
6	GND	Ground