DH-MV-A5A21M/CG9E



- 1Gbps Ethernet interface , max 100m transmission
- 128MB on-board frame buffer
- Support multiple image data formats
- Conform to CE, FCC, RoHS certifications
- 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 (μm)	Sensor size
DH-MV-A5A21MG9E	PYTHON 12K	CMOS	Global	4096 x 3072	9	10	GigE	Mono	4.5x4.5	4/3"
DH-MV-A5A21CG9E	PYTHON 12K	CMOS	Global	4096 x 3072	9	10	GigE	Color	4.5x4.5	4/3"

Model	DH-MV-A5A21MG9E	DH-MV-A5A21CG9E
Effective Pixels	12MP	
SNR	>41dB	
Dynamic Range	59dB	
GPIO	12 pin Hirose: 3 Opto-isolated input, 3 Opto-isolated output	
Image Format	Mono8/10/10Packed	BayerGB8/10/10Packed, YUV422Packed Mono8, BayerRG8/10/10Packed,RGB8Packed
Binning	Support	
Gain	x1~x6	
Gamma	Range from 0 to 4,support LUT	
Exposure Time	1μS~1S	
Trigger Mode	Software trigger/Hardware trigger/Free run mode	
Image Buffer	128MB	
User Setting	Support two sets of user-defined configurations	
Dimensions	76mmx76mmx46mm(not including lens mount and rear case connector)	
Weight	450g	
Power Supply	Support 12~24V DC wide range power supply	
Power Consumption	12V≈9W	
Lens Mount	M58(FBL 12.3)	
Temperature	Storage temperature:-30° C~ + 80° C; Operation temperature:-30° C~+50° C	

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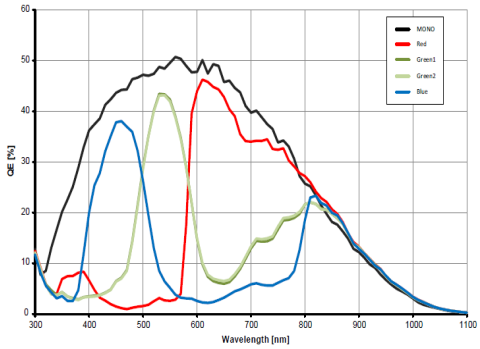
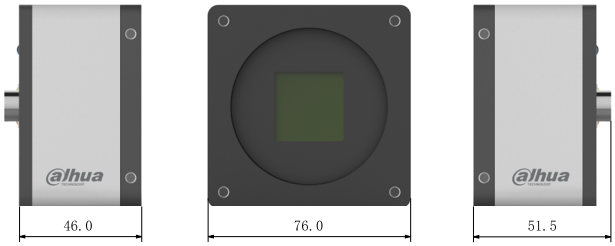
Spectrogram

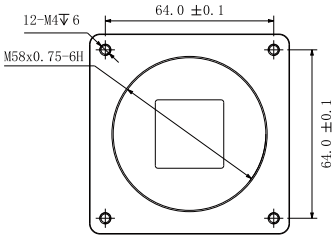
A5A21MCG9E

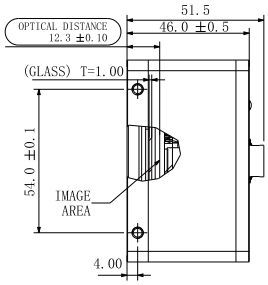


Quantum Efficiency Curve for Mono and Color

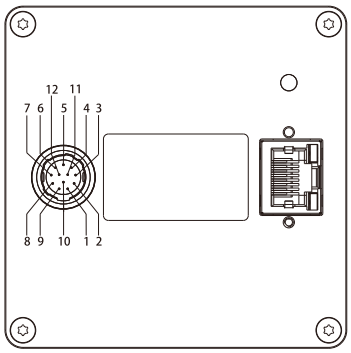
Dimensions







IO Interface Instruction



Pin	Signal	Description
1	GND	Ground
2	Power	DC 12V-24V input
3	RXD_RS232	Serial port input
4	TXD_RS232	Serial port output
5	Line1	Opto-isolated input 1
6	Line2	Opto-isolated input 2
7	Line3	Opto-isolated input 3
8	OPT_IN_GND	Opto-isolated in ground
9	Line1	Opto-isolated output 1
10	Line2	Opto-isolated output 2
11	Line3	Opto-isolated output 3
12	OPT_OUT_GND	Opto-isolated out ground