HIKROBOT

### MV-CS050-10GM/GC-PRO

5 MP 2/3" CMOS GigE Area Scan Camera

# HIKROBOT HIKROBOT PWR O

## GEN**<i>**CAM



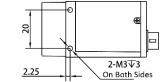
#### Introduction

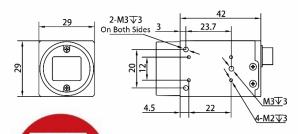
With GigE interface, MV-CS050-10GM/GC-PRO camera adopts Sony® IMX264 sensor to provide high-quality image and transmit images in real time. Its max. frame rate can reach 24.2 fps in full resolution, and reach 35.6 fps when the image compression mode is enabled.

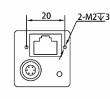
#### **Key Feature**

- Adopts brand new design to reduce power consumption.
- Supports image compression mode and noise reduction function.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.









0.2

0.1

0.0

450 500 550 600 650 Way

Unit: mm

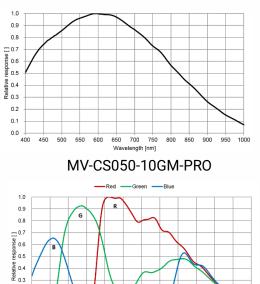
#### Available Model

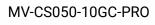
- Mono camera: MV-CS050-10GM-PRO
- Color camera: MV-CS050-10GC-PR0

#### **Applicable Industry**

SMT/ PCB AOI, consumer electronics, electrical semiconductor, etc.

#### **Sensor Quantum Efficiency**





700 750 velength [nm] 800 850 900 950

### Specification

Camera   CMOS, global shutter     Sensor type   CMOS, global shutter     Sensor model   Sony@ IMX264     Pixel size   3.45 µm × 3.45 µm     Sensor size   2/3"     Resolution   2448 × 2048     Max. frame rate   24.2 fps @2448 × 2048     35.6 fps @2448 × 2048   35.6 fps @2448 × 2048     Jynamic range   72 dB     SNN   40 dB     Gain   0 dB to 24 dB     Exposure time   UltraShort exposure mode: 1 µs to 14 µs     Standard exposure mode: 15 µs to 10 sec     Exposure mode   Off/Once/Continuous exposure mode     Mono/color   Mono     Pixel format   Mono 8/10/10p/12/12p     Mono 8/10/10p/12/12p   YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8     Binning   Supports 1 × 1, 2 × 2, 4 × 4     Decimation   Supports 1 x 1, 2 × 2, 4 × 4     Decimation   Supports 1 x 1, 2 × 2, 4 × 4     Decimation   Supports 1 x 1, 2 × 2, 4 × 4     Decimation   Supports 1 x 1, 2 × 2, 4 × 4     Data interface   Gigabit Ethernet, compatible with Fast Ethernet     Digital I/O </th <th>Model</th> <th>MV-CS050-10GM-PRO</th> <th>MV-CS050-10GC-PRO</th>	Model	MV-CS050-10GM-PRO	MV-CS050-10GC-PRO	
Sensor model Sony® IMX264   Pixel size 3.45 µm × 3.45 µm   Sensor size 2/3"   Resolution 2448 × 2048   Max. frame rate 24.2 fps @2448 × 2048   35.6 fps @2448 × 2048 [image compression mode enabled]   Dynamic range 72 d8   SNR 40 dB   Gain 0 dB to 24 dB   Standard exposure mode: 1 µs to 14 µs   Standard exposure mode: 1 µs to 10 sec   Exposure time Off/Once/Continuous exposure mode   Mono/color Mono   Mono/scolor Mono 8/10/10p/12/12p,   Wono 8/10/10p/12/12p, WU422Packed, YUV422_YUVY_Packed, RGB 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2   Power consumption Typ. 2 & 0 wall 2 × 0	Camera			
Sensor model Sony® IMX264   Pixel size 3.45 µm × 3.45 µm   Sensor size 2/3"   Resolution 2448 × 2048   Max. frame rate 24.2 fps @2448 × 2048   35.6 fps @2448 × 2048 [image compression mode enabled]   Dynamic range 72 d8   SNR 40 dB   Gain 0 dB to 24 dB   Standard exposure mode: 1 µs to 14 µs   Standard exposure mode: 1 µs to 10 sec   Exposure time Off/Once/Continuous exposure mode   Mono/color Mono   Mono/scolor Mono 8/10/10p/12/12p,   Wono 8/10/10p/12/12p, WU422Packed, YUV422_YUVY_Packed, RGB 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2   Power consumption Typ. 2 & 0 wall 2 × 0	Sensor type	CMOS, global shutter		
Sensor size 2/3'   Resolution 2448 × 2048   Max. frame rate 24.2 fps @2448 × 2048   35.6 fps @2448 × 2048   (image compression mode enabled)   Dynamic range 72 dB   SNN 40 dB   Gain 0 dB to 24 dB   Exposure time UltraShort exposure mode: 1 µs to 14 µs   Standard exposure mode: 15 µs to 10 sec   Exposure mode Off/Once/Continuous exposure mode   Mono/color Mono   Pixel format Mono 8/10/10p/12/12p   Mono 8/10/10p/12/12p Mono 8/10/12/2 Bayer RG 8/10/10p/12/12p, VUV422Packed, VUV422_VUVV_Packed, RGB 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 0 × 1 × 1, 2 × 2   Reverse				
Resolution 2448 × 2048   Max. frame rate 24.2 fps @2448 × 2048   35.6 fps @2448 × 2048   (image compression mode enabled)   Dynamic range 72 dB   SNR 40 dB   Gain 0 dB to 24 dB   Exposure time UltraShort exposure mode: 1 µs to 14 µs   Standard exposure mode: 15 µs to 10 sec   Exposure mode Off/Once/Continuous exposure mode   Mono/color Mono   Mono 8/10/10p/12/12p Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV4222 Packed, YUV422_YUVV_Packed, YUV422_YUVV_Packed, RG 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2	Pixel size			
Max. frame rate 24.2 fps @2448 × 2048   35.6 fps @2448 × 2048   (image compression mode enabled)   Dynamic range 72 dB   SNR 40 dB   Gain 0 dB to 24 dB   Exposure time UltraShort exposure mode: 1 µs to 14 µs   Standard exposure mode: 15 µs to 10 sec   Exposure mode Off/Once/Continuous exposure mode: 15 µs to 10 sec   Exposure mode Off/Once/Continuous exposure mode: 16 µs to 10 sec   Mono/color Mono Color   Pixel format Mono 8/10/10p/12/12p Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422_Packed, YUV422_YUYV_Packed, RG 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4 Eeterical features   Data interface Gigabit Ethernet, compatible with Fast Ethernet Electrical features   Data interface Gigabit Ethernet, compatible with Fast Ethernet Typ. 2.9 W@12 VDC   Power supply 9 VDC to 24 VDC, supports PoE Typ. 2.9 W@12 VDC   Power consumption Typ. 2.9 W@12 VDC Typ. 2.9 W@12 VDC   Mechanical Ingress protection P40 (under proper lens installation and wiring)   Temperature 20% to 95% RH, non-condensing Gon C (-22 °F to 140 °F) Storage temperature: -30 °C to 60 °C (-	Sensor size			
35.6 fps @2448 × 2048 (image compression mode enabled)   Dynamic range 72 dB   SNR 40 dB   Gain 0 dE to 24 dB   Exposure time UltraShort exposure mode: 1 µs to 14 µs   Standard exposure mode: 15 µs to 10 sec   Exposure mode Off/Once/Continuous exposure mode   Mono/color Mono   Mono 8/10/12, Bayer RG 8/10/10p/12/12p, VUV422Packed, YUV422_YUVV_Packed, RGB 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2   Reverse image Supports 1 × 1, 2 × 2   Pointiation Supports 1 × 1, 2 × 2   Binning Supports 1 × 1, 2 × 2   Poeimation Supports 1 × 1, 2 × 2   Reverse image Supports 1 × 1, 2 × 2   Poeimation Supports 1 × 1, 2 × 2   Reverse image Supports 1 × 1, 2 × 2   Poeination Supports 1 × 1, 2 × 2   Reverse image Supports 1 × 1, 2 × 2   Poeination Supports 1 × 1, 2 × 2   Reverse image Supports 1 × 1, 2 × 2   Reverse image Supports 1 × 1, 2 × 2   Poeinatior Supports 1 × 1, 2 × 2   Reverse image	Resolution			
(image compression mode enabled)Dynamic range72 dBSNR40 dBGain0 dB to 24 dBExposure timeUltraShort exposure mode: 1 µs to 14 µsStandard exposure mode: 15 µs to 10 secExposure modeOff/Once/Continuous exposure modeMono/colorMonoMonoColorPixel formatMono 8/10/10p/12/12p, VUV422Packed, YUV422_YUVV_Packed, RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2Reverse imageSupports 1 × 1, 2 × 2Reverse imageSupports 1 × 1, 2 × 2Power souply9 VDC to 24 VDC, supports PoEData interfaceGigabit Ethernet, compatible with Fast EthernetDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power consumptionTyp. 2.6 W@12 VDCTyp. 2.9 W@12 VDCMedifiedZ9 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 140 °F)Umidity20% to 95% RH, non-condensingGeneralUS to 95% RH, non-condensingClient softwareMYS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and	Max. frame rate			
Dynamic range 72 dB   SNR 40 dB   Gain 0 dB to 24 dB   Exposure time UltraShort exposure mode: 15 µs to 14 µs   Standard exposure mode: 15 µs to 10 sec   Exposure mode Off/Once/Continuous exposure mode   Mono/color Mono   Mono S/10/10p/12/12p Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUV_Packed, RGB 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2   Reverse image Supports horizontal and vertical reverse image output   Electrical features Data interface   Digital I/O 6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).   Power consumption Typ. 2.6 W@12 VDC Typ. 2.9 W@12 VDC   Mechanical Lens mount C-Mount   Dimension 29 mm × 42 mm (1.1" × 1.1" × 1.2")   Weight Approx. 100 g (0.22 lb.)   Ingress protection IP40 (under proper lens installation and wiring)   Temperature Working temperature: -30 °C to 60 °C (-22 °F to 140 °F)   Storage te				
SNR 40 dB   Gain 0 dB to 24 dB   Exposure time UltraShort exposure mode: 1 µs to 14 µs   Standard exposure mode: 15 µs to 10 sec   Exposure mode Off/Once/Continuous exposure mode   Mono/color Mono   Pixel format Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUVV_Packed, RGB 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports norizontal and vertical reverse image output   Electrical features Supports horizontal and vertical reverse image output   Data interface Gigabit Ethernet, compatible with Fast Ethernet   Digital I/O 6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).   Power consumption Typ. 2.6 W@12 VDC Typ. 2.9 W@12 VDC   Mechanical Lens mount C-Mount   Dimension 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")   Weight Approx. 100 g (0.22 lb.)   Ingress protection IP40 (under proper lens installatio		(image compression mode enabled)		
Gain 0 dB to 24 dB   Exposure time UltraShort exposure mode: 1 µs to 14 µs   Standard exposure mode: 15 µs to 10 sec   Exposure mode Off/Once/Continuous exposure mode   Mono/color Mono   Pixel format Mono 8/10/10p/12/12p   Mono 8/10/10p/12/12p VUV422Packed, YUV422_YUVV_Packed, RGB 8, BGR 8   Binning Supports 1 × 1, 2 × 2, 4 × 4   Decimation Supports 1 × 1, 2 × 2   Reverse image Supports norizontal and vertical reverse image output   Electrical features Data interface   Digital I/O 6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).   Power supply 9 VDC to 24 VDC, supports PoE   Power consumption Typ. 2.6 W@12 VDC   Typ. 2.9 W@12 VDC Typ. 2.9 W@12 VDC   Meridation 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")   Weight Approx. 100 g (0.22 lb.)   Ingress protection IP40 (under proper lens installation and wiring)   Temperature Working temperature: -30 °C to 80 °C (-22 °F to 140 °F)   Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)   Humidity 20% to 95%	Dynamic range	72 dB		
Exposure timeUltraShort exposure mode: 1 µs to 14 µsStandard exposure mode: 15 µs to 10 secExposure modeOff/Once/Continuous exposure modeMono/colorMonoColorPixel formatMono 8/10/10p/12/12p, VUV422Packed, YUV422_VUYV_Packed, RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2Reverse imageSupports 1 × 1, 2 × 2Reverse imageSupports 1 × 1, 2 × 2Bata interfaceGigabit Ethernet, compatible with Fast EthernetDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power consumptionTyp. 2.6 W@12 VDCPower consumptionTyp. 2.9 W@12 VDCMechanicalLens mountC-MountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 60 °C (-22 °F to 176 °F)Humidity20% to 95% RH, non-condensingGeneralClient softwareClient softwareMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	SNR	40 dB		
Standard exposure mode: 15 µs to 10 secExposure modeOff/Once/Continuous exposure modeMono/colorMonoColorPixel formatMono 8/10/10p/12/12pMono 8/10/12, Bayer RG 8/10/10p/12/12p, VUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4Mono 8/10/10p/12/12pMono 8/10/10p/12/12p. YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4Electrical featuresMono 8/10/10p/12/12p.DecimationSupports 1 × 1, 2 × 2, 4 × 4Electrical featuresData interfaceGigabit Ethernet, compatible with Fast EthernetDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power consumptionTyp. 2.6 W@12 VDCTyp. 2.9 W@12 VDCMechanicalImmession29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIngress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)Humidity20% to 95% RH, non-condensingGeneralClient softwareMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	Gain	0 dB to 24 dB		
Exposure modeOff/Once/Continuous exposure modeMono/colorMonoColorPixel formatMono 8/10/10p/12/12pMono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4Mono 8/10/10p/12/12pDecimationSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports n × 1, 2 × 2Reverse imageSupports horizontal and vertical reverse image outputElectrical featuresData interfaceGigabit Ethernet, compatible with Fast EthernetDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power supply9 VDC to 24 VDC, supports PoEPower consumptionTyp. 2.6 W@12 VDCMechanicalLens mountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 140 °F)Qui% to 95% RH, non-condensingGeneralClient softwareMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	Exposure time	UltraShort exposure mode: 1 µs to 14 µs		
Mono/colorMonoColorPixel formatMono 8/10/10p/12/12pMono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2Reverse imageSupports horizontal and vertical reverse image outputElectrical featuresData interfaceGigabit Ethernet, compatible with Fast EthernetDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power supply9 VDC to 24 VDC, supports PoEPower consumptionTyp. 2.6 W@12 VDCTyp. 2.9 W@12 VDCMechanicalLens mountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)Humidity20% to 95% RH, non-condensingGeneralClient softwareMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS		Standard exposure mode: 15 µs to 10 sec		
Pixel formatMono 8/10/10p/12/12pMono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8DecimationSupports 1 × 1, 2 × 2Reverse imageSupports horizontal and vertical reverse image outputElectrical featuresData interfaceGigabit Ethernet, compatible with Fast EtherretDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power supply9 VDC to 24 VDC, supports POETyp. 2.9 W@12 VDCPower consumptionTyp. 2.6 W@12 VDCTyp. 2.9 W@12 VDCMechanicalImmession29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Imgress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)Humidity20% to 95% RH, non-condensingGeneralMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	Exposure mode	Off/Once/Continuous exposure mode		
Mono 8/10/10p/12/12pYUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2Reverse imageSupports horizontal and vertical reverse image outputElectrical featuresData interfaceGigabit Ethernet, compatible with Fast EthernetDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power supply9 VDC to 24 VDC, supports PoEPower consumptionTyp. 2.6 W@12 VDCMechanicalLens mountC-MountDimension29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)Humidity20% to 95% RH, non-condensingGeneralUiston ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	Mono/color	Mono	Color	
RGB 8, BGR 8BinningSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2Reverse imageSupports horizontal and vertical reverse image outputElectrical featuresData interfaceGigabit Ethernet, compatible with Fast EtherretDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directionation onto a provide output × 1 (Line 1), bi-directionationPower supply9 VDC to 24 VDC, supports PoEPower consumptionTyp. 2.6 W@12 VDCTyp. 2.9 W@12 VDCMechanicalLens mountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIP40 (under proper lens installation and wirrup)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)Humidity20% to 95% RH, non-condensingGeneralClient softwareMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	Pixel format		Mono 8/10/12, Bayer RG 8/10/10p/12/12p,	
BinningSupports 1 × 1, 2 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2Reverse imageSupports horizontal and vertical reverse image outputElectrical featuresData interfaceGigabit Ethernet, compatible with Fast EthernetDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power supply9 VDC to 24 VDC, supports PoEPower consumptionTyp. 2.6 W@12 VDCTyp. 2.9 W@12 VDCMechanicalLens mountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)Humidity20% to 95% RH, non-condensingGeneralClient softwareClient softwareMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS		Mono 8/10/10p/12/12p	YUV422Packed, YUV422_YUYV_Packed,	
DecimationSupports 1 × 1, 2 × 2Reverse imageSupports horizontal and vertical reverse image outputElectrical featuresData interfaceGigabit Ethernet, compatible with Fast EthernetDigital I/O6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).Power supply9 VDC to 24 VDC, supports PoEPower consumptionTyp. 2.6 W@12 VDCTyp. 2.9 W@12 VDCMechanicalLens mountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")WeightApprox. 100 g (0.22 lb.)Ingress protectionIP40 (under proper lens installation and wiring)TemperatureWorking temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)Humidity20% to 95% RH, non-condensingGeneralMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS			RGB 8, BGR 8	
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Electrical features Gigabit Ethernet, compatible with Fast Ethernet   Data interface Gigabit Ethernet, compatible with Fast Ethernet   Digital I/O 6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).   Power supply 9 VDC to 24 VDC, supports PoE   Power consumption Typ. 2.6 W@12 VDC   Mechanical Typ. 2.9 W@12 VDC   Lens mount C-Mount   Dimension 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")   Weight Approx. 100 g (0.22 lb.)   Ingress protection IP40 (under proper lens installation and wiring)   Temperature Working temperature: -30 °C to 60 °C (-22 °F to 140 °F)   Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)   Humidity 20% to 95% RH, non-condensing   General MVS or third-party software meeting with GigE Vision Protocol   Operating system 32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	Decimation	Supports 1 × 1, 2 × 2		
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Mechanical   Lens mount C-Mount   Dimension 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")   Weight Approx. 100 g (0.22 lb.)   Ingress protection IP40 (under proper lens installation and wiring)   Temperature Working temperature: -30 °C to 60 °C (-22 °F to 140 °F)   Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)   Humidity 20% to 95% RH, non-condensing   General Client software   MVS or third-party software meeting with GigE Vision Protocol   Operating system 32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	Power supply			
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Operating system   32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS				
Compatibility GigE Vision V2.0, GenICam			and 64-bit MacOS	
Certification CE, RoHS, KC		CE, RoHS, KC		



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