# HC-CA005-20GM/GC

### 0.5 MP 1/3.6" CMOS GigE Area Scan Camera









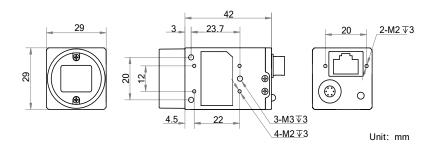
#### Introduction

HC-CA005-20GM/GC adopts PYTHON480 sensor to provide high • quality image. The GigE interface provides high-speed real-time • transmission of uncompressed data with the maximum frame rate reaching 116 fps at full resolution.

### **Key Feature**

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports hardware triggering and software triggering.
- Supports auto and manual adjustment for exposure control, LUT, Gamma correction, etc.
- Up to 128 MB local memory for burst transmission and retransmission.
- Compatible with GigE Vision Protocol V1.2 and thirdparty software meeting with GigE Vision Protocol.

#### **Dimension**



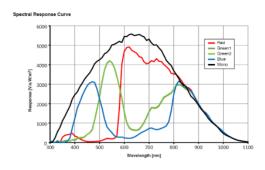
#### **Available Model**

- Mono camera: HC-CA005-20GM
- Color camera: HC-CA005-20GC

## **Applicable Industry**

Electronic semiconductor, factory automation, quality inspection, etc.

## **Sensor Quantum Efficiency**



# **Specification**

Censor type         CMOS, global shutter           Sensor model         PYTHON480           Pixel size         4.8 µm × 4.8 µm           Sensor size         1/3.6"           Resolution         808 × 608           Max. frame rate         116 fps @808 × 608           Dynamic range         59 gB           SNR         57 dB           Gain         0 db to 15 dB           Exposure mode         Mono Mon/color           Mono /Color         Mono         Color           Pixel format         Mono 8/10/10p/12/12p         Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVY_Packed, RGB 8           Binning         Supports 1 × 1, 2 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4           Decimation         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 x 1, 2 × 2 × 2           Severse image         Supports 1 x 1, 2 × 2           Image buffer         128 MB           Electrical feature           Data interface         Gigabit Ethernet, compatible with Fast Ethernet           Digital I/O         G-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. 3.0 W@12 VDC           Mechani	Model	HC-CA005-20GM	HC-CA005-20GC	
Sensor model         PYTHON480           Pixel size         4.8 μm × 4.8 μm           Sensor size         1/3.6"           Resolution         808 × 608           Max. frame rate         115 fps @808 × 608           Dynamic range         59 dB           SNR         57 dB           Exposure time         42 μs to 10 sec           Exposure mode         Off/Once/Continuous exposure mode           Mono/color         Mono         Color           Pixel format         Mono 8/10/10p/12/12p         Mono 8/10/12, Bayer RG 8/10/10p/12/12p, yUU 422 Packed, YUV422_YUVV_Packed, RG8 8           Binning         Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4           Decimation         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 points 1 × 1, 2 × 2           Reverse image         Supports 1 points 1 × 1, 2 × 2           Image buffer         128 MB           Electrical feature         Data interface         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         12 VDC, sup	Camera			
Pixel size         4.8 μm × 4.8 μm           Sensor size         1/3.6"           Resolution         808 × 608           Max. frame rate         116 fps @808 × 608           Dynamic range         59 dB           SNR         57 dB           Gain         0 dB to 15 dB           Exposure ime         42 μs to 10 sec           Exposure mode         Off/Once/Continuous exposure mode           Mono (200r)         Mono           Pixel format         Mono 8/10/10p/12/12p           Mono 8/10/10p/12/12p         Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVV_Packed, RGB 8           Binning         Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4           Decimation         Supports 1 × 1, 2 × 2           Reverse image         Supports horizontal and vertical reverse image output           Image buffer         128 MB           Electrical feature           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         12 VDC, supports PoE           Power consumptio         Typ. 3.0 W@12 VDC           Mechanic	Sensor type	CMOS, global shutter		
Sensor size         1/3.6"           Resolution         808 × 608           Max, frame rate         116 fps @808 × 608           Dynamic range         59 dB           SNR         57 dB           Gain         0 dB to 15 dB           Exposure time         42 µs to 10 sec           Exposure mode         Off/Once/Continuous exposure mode           Mono/Color         Mono         Color           Pixel format         Mono 8/10/10p/12/12p         Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVV_Packed, RGB 8           Binning         Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4           Decimation         Supports 1 × 1, 2 × 2           Reverse image         Supports horizontal and vertical reverse image output           Image buffer         128 MB           Electrical feature         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         12 VDC, supports PoE           Power consumption         Typ. 3.0 W@12 VDC           Mechanical         Lens mount         C-Mount           Dimension         29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	Sensor model	PYTHON480		
Resolution         808 × 608           Max. frame rate         116 fps @808 × 608           Dynamic range         59 dB           SNR         57 dB           Gain         0 dB to 15 dB           Exposure time         42 μs to 10 sec           Exposure mode         Off/Once/Continuous exposure mode           Mono/color         Mono           Pixel format         Mono 8/10/10p/12/12p         Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVV_Packed, RGB 8           Binning         Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4           Decimation         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 × 1, 2 × 2           Pixer series         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 × 1, 2 × 2           Pixer series         Supports 1 × 1, 2 × 2           Reverse image         Supports 1 × 1, 2 × 2           Pixer series         Supports 1 × 1, 2 × 2           Pixer series	Pixel size	4.8 μm × 4.8 μm		
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Dynamic range         59 dB           SNR         57 dB           Gain         0 db to 15 dB           Exposure time         42 µs to 10 sec           Exposure mode         Off/Once/Continuous exposure mode           Mono/color         Mono           Pixel format         Mono 8/10/10p/12/12p           Binning         Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4           Decimation         Supports 1 × 1, 2 × 2           Reverse image         Supports horizontal and vertical reverse image output           Image buffer         128 MB           Electrical feature         Data interface           Oigital I/O         Gigabit Ethernet, compatible with Fast Ethernet           Digital I/O         Gigabit Ethernet, compatible with Fast Ethernet           Power supply         12 VDC, supports PoE           Power consumption         Typ. 3.0 W@ 12 VDC           Mechanical         Lens mount           C-Mount         C-Mount           Dimension         29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")           Weight         Approx. 68 g (0.15 lb.)           Ingress protection         IP30 (under proper lens installation and wirring)           Temperature         Working temperature: 30 °C to 70 °C (-22 °F to 158 °F)	Resolution	808 × 608		
SNR 57 dB  Gain 0 dB to 15 dB  Exposure time 42 µs to 10 sec  Exposure mode Off/Once/Continuous exposure mode  Mono/color Mono Color  Pixel format Mono 8/10/10p/12/12p Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUYV_Packed, RGB 8  Binning Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4  Decimation Supports 1 × 1, 2 × 2  Reverse image Supports horizontal and vertical reverse image output Image buffer 128 MB  Electrical feature  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 7p. 3.0 W@12 VDC  Mechanical  Lens mount C-Mount  Dimension 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")  Weight Approx. 68 g (0.15 lb.)  Ingress protection IP30 (under proper lens installation and wirring)  Temperature Working temperature: 0°C to 50°C (32°F to 122°F)  Storage temperature: -30°C to 70°C (-22°F to 158°F)  Humidity 20% to 80% 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  Compatibility	Max. frame rate	116 fps @808 × 608		
Gain       0 dB to 15 dB         Exposure time       42 µs to 10 sec         Exposure mode       Off/Once/Continuous exposure mode         Mono/color       Mono       Color         Pixel format       Mono 8/10/10p/12/12p       Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVV_Packed, RG8 8         Binning       Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4         Decimation       Supports 1 × 1, 2 × 2         Reverse image       Supports horizontal and vertical reverse image output         Image buffer       128 MB         Electrical feature       Electrical feature         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       12 VDC, supports PoE         Power consumption       Typ. 3.0 W@12 VDC         Mechanical       Lens mount       C-Mount         Dimension       29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7" × 1.7")         Weight       Approx. 68 g (0.15 lb.)         Ingress protection       IP30 (under proper lens installation and wiring)         Temperature       Working temperature: -0"C to 50 °C (32 °F to 122 °F)	Dynamic range	59 dB		
Exposure mode       42 μs to 10 sec         Exposure mode       Off/Once/Continuous exposure mode         Mono/color       Mono       Color         Pixel format       Mono 8/10/10p/12/12p       Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVV_Packed, RGB 8         Binning       Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4         Decimation       Supports 1 × 1, 2 × 2         Reverse image       Supports horizontal and vertical reverse image output         Image buffer       128 MB         Electrical feature       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       12 VDC, supports PoE         Power consumption       Typ. 3.0 W@12 VDC         Mechanical       Lens mount       C-Mount         Dimension       29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")       Weight       Approx. 68 g (0.15 lb.)         Ingress protection       IP30 (under proper lens installation and wiring)         Temperature       Working temperature: 0 °C to 50 °C (32 °F to 122 °F)         Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)         Humidity       20% to 80% RH, non-condensing	SNR	57 dB		
Exposure mode       Off/Once/Continuous exposure mode         Mono/color       Mono       Color         Pixel format       Mono 8/10/10p/12/12p       Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVY_Packed, RGB 8         Binning       Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4         Decimation       Supports 1 × 1, 2 × 2         Reverse image       Supports horizontal and vertical reverse image output         Image buffer       128 MB         Electrical feature       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-directival non-isolated I/O × 1 (Line 2).         Power supply       12 VDC, supports PoE         Power consumption       Typ. 3.0 W@12 VDC         Mechanical       Lens mount       C-Mount         Dimension       29 mm × 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7" )         Weight       Approx. 68 g (0.15 lb.)         Ingress protection       IP30 (under proper lens installation and wiring)         Temperature       Working temperature: 0 °C to 50 °C (32 °F to 122 °F)         Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)         Humidity       20% to 80% RH, non-condensing         General         Cli	Gain	0 dB to 15 dB		
Mono/color       Mono 8/10/10p/12/12p       Color         Pixel format       Mono 8/10/10p/12/12p       Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVV_Packed, RGB 8         Binning       Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4         Decimation       Supports 1 × 1, 2 × 2         Reverse image       Supports horizontal and vertical reverse image output         Image buffer       128 MB         Electrical feature       Electrical feature         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       12 VDC, supports PoE         Power consumption       Typ. 3.0 W@12 VDC         Mechanical       Lens mount       C-Mount         Dimension       29 mm × 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")         Weight       Approx. 68 g (0.15 lb.)         Ingress protection       IP30 (under proper lens installation and wiring)         Temperature       Working temperature: 0 °C to 50 °C (32 °F to 122 °F)         Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)         Humidity       20% to 80% RH, non-condensing         General         C	Exposure time	42 μs to 10 sec		
Pixel formatMono 8/10/10p/12/12pMono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVY_Packed, RGB 8BinningSupports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4DecimationSupports 1 × 1, 2 × 2Reverse imageSupports horizontal and vertical reverse image outputImage buffer128 MBElectrical featureElectrical featureData 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 supply12 VDC, supports PoEPower consumptionTyp. 3.0 W@12 VDCMechanicalLens mountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")WeightApprox. 68 g (0.15 lb.)Ingress protectionIP30 (under proper lens installation and wiring)TemperatureWorking temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)Humidity20% to 80% 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 MacOSCompatibilityGigE Vision V1.2, GenlCam	Exposure mode	Off/Once/Continuous exposure mode		
Mono 8/10/10p/12/12p  Mono 8/10/10p/12/12p  Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUVY_Packed, RGB 8  Binning  Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4  Decimation  Supports borizontal and vertical reverse image output  Image buffer  128 MB  Electrical feature  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  12 VDC, supports PoE  Power consumption  Typ. 3.0 W@12 VDC  Mechanical  Lens mount  C-Mount  Dimension  29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")  Weight  Approx. 68 g (0.15 lb.)  Ingress protection  IP30 (under proper lens installation and wiring)  Temperature  Working temperature: 0 °C to 50 °C (32 °F to 122 °F)  Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)  Humidity  20% to 80% 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  Compatibility  GigE Vision V1.2, GenlCam	Mono/color	Mono	Color	
Decimation         Supports 1 × 1, 2 × 2           Reverse image         Supports horizontal and vertical reverse image output           Image buffer         128 MB           Electrical feature         From the part of the part	Pixel format	Mono 8/10/10p/12/12p		
Reverse image       Supports horizontal and vertical reverse image output         Image buffer       128 MB         Electrical feature       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       12 VDC, supports PoE         Power consumption       Typ. 3.0 W@12 VDC         Mechanical       Lens mount         C-Mount       29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")         Weight       Approx. 68 g (0.15 lb.)         Ingress protection       IP30 (under proper lens installation and wiring)         Temperature       Working temperature: 0 °C to 50 °C (32 °F to 122 °F)         Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)         Humidity       20% to 80% 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         Compatibility       GigE Vision V1.2, GenlCam	Binning	Supports 1 × 1, 1 × 2, 2 × 1, 1 × 4, 4 × 1, 2 × 2, 2 × 4, 4 × 2, 4 × 4		
Image buffer       128 MB         Electrical feature         Data interface       Gigabit Ethernet, compatible with Fast Ethernet         Digital I/O       G-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       12 VDC, supports PoE         Power consumption       Typ. 3.0 W@12 VDC         Mechanical         Lens mount       C-Mount         Dimension       29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")         Weight       Approx. 68 g (0.15 lb.)         Ingress protection       IP30 (under proper lens installation and wiring)         Temperature       Working temperature: 0 °C to 50 °C (32 °F to 122 °F)         Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)         Humidity       20% to 80% 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         Compatibility       GigE Vision V1.2, GenlCam	Decimation	Supports 1 × 1, 2 × 2		
Electrical feature         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       12 VDC, supports PoE         Power consumption       Typ. 3.0 W@12 VDC         Mechanical       C-Mount         Dimension       29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")         Weight       Approx. 68 g (0.15 lb.)         Ingress protection       IP30 (under proper lens installation and wiring)         Temperature       Working temperature: 0 °C to 50 °C (32 °F to 122 °F)         Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)         Humidity       20% to 80% 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         Compatibility       GigE Vision V1.2, GenICam	Reverse image	Supports horizontal and vertical reverse image output		
Data 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 supply12 VDC, supports PoEPower consumptionTyp. 3.0 W@12 VDCMechanicalC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")WeightApprox. 68 g (0.15 lb.)Ingress protectionIP30 (under proper lens installation and wiring)TemperatureWorking temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)Humidity20% to 80% 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 MacOSCompatibilityGigE Vision V1.2, GenlCam	Image buffer	128 MB		
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	Electrical feature			
opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).  Power supply 12 VDC, supports PoE  Power consumption Typ. 3.0 W@12 VDC  Mechanical  Lens mount C-Mount  Dimension 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")  Weight Approx. 68 g (0.15 lb.)  Ingress protection IP30 (under proper lens installation and wiring)  Temperature Working temperature: 0 °C to 50 °C (32 °F to 122 °F)	Data interface	Gigabit Ethernet, compatible with Fast Ethernet		
Power consumption Typ. 3.0 W@12 VDC  Mechanical  Lens mount C-Mount  Dimension 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")  Weight Approx. 68 g (0.15 lb.)  Ingress protection IP30 (under proper lens installation and wiring)  Temperature Working temperature: 0 °C to 50 °C (32 °F to 122 °F)	Digital I/O			
Power consumptionTyp. 3.0 W@12 VDCMechanicalC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")WeightApprox. 68 g (0.15 lb.)Ingress protectionIP30 (under proper lens installation and wiring)TemperatureWorking temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)Humidity20% to 80% 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 MacOSCompatibilityGigE Vision V1.2, GenlCam	Power supply			
MechanicalLens mountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")WeightApprox. 68 g (0.15 lb.)Ingress protectionIP30 (under proper lens installation and wiring)TemperatureWorking temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)Humidity20% to 80% 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 MacOSCompatibilityGigE Vision V1.2, GenlCam		11		
Lens mountC-MountDimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")WeightApprox. 68 g (0.15 lb.)Ingress protectionIP30 (under proper lens installation and wiring)TemperatureWorking temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)Humidity20% to 80% 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 MacOSCompatibilityGigE Vision V1.2, GenlCam				
Dimension29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")WeightApprox. 68 g (0.15 lb.)Ingress protectionIP30 (under proper lens installation and wiring)TemperatureWorking temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)Humidity20% to 80% 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 MacOSCompatibilityGigE Vision V1.2, GenlCam		C-Mount		
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Humidity 20% to 80% 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  Compatibility GigE Vision V1.2, GenICam	Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F)		
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         Compatibility       GigE Vision V1.2, GenICam		Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)		
Client softwareMVS or third-party software meeting with GigE Vision ProtocolOperating system32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOSCompatibilityGigE Vision V1.2, GenICam	Humidity	20% to 80% RH, non-condensing		
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Compatibility GigE Vision V1.2, GenICam	Client software	MVS or third-party software meeting with GigE Vision Protocol		
	Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linu	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
Certification CE, FCC, RoHS, KC	Compatibility	GigE Vision V1.2, GenlCam		
	Certification	CE, FCC, RoHS, KC	CE, FCC, RoHS, KC	