

USB 3.0 GenICam® Cameras

HC-CA004-10UM/HC-CA004-10UC

High quality sensors

New SONY Pregius CMOS Global shutter sensors provide high quality images.

USB3 Vision® protocol & GenICam® standard

Standard vision SDK platform for easy integration in existing software.

Full GenICam® compliant: easy to integrate

GenICam® compliant SDK package provides more flexibility to Vision Systems®.

USB 3.0 connectivity

Easy connectivity to most new computers with 5gbps bandwidth.



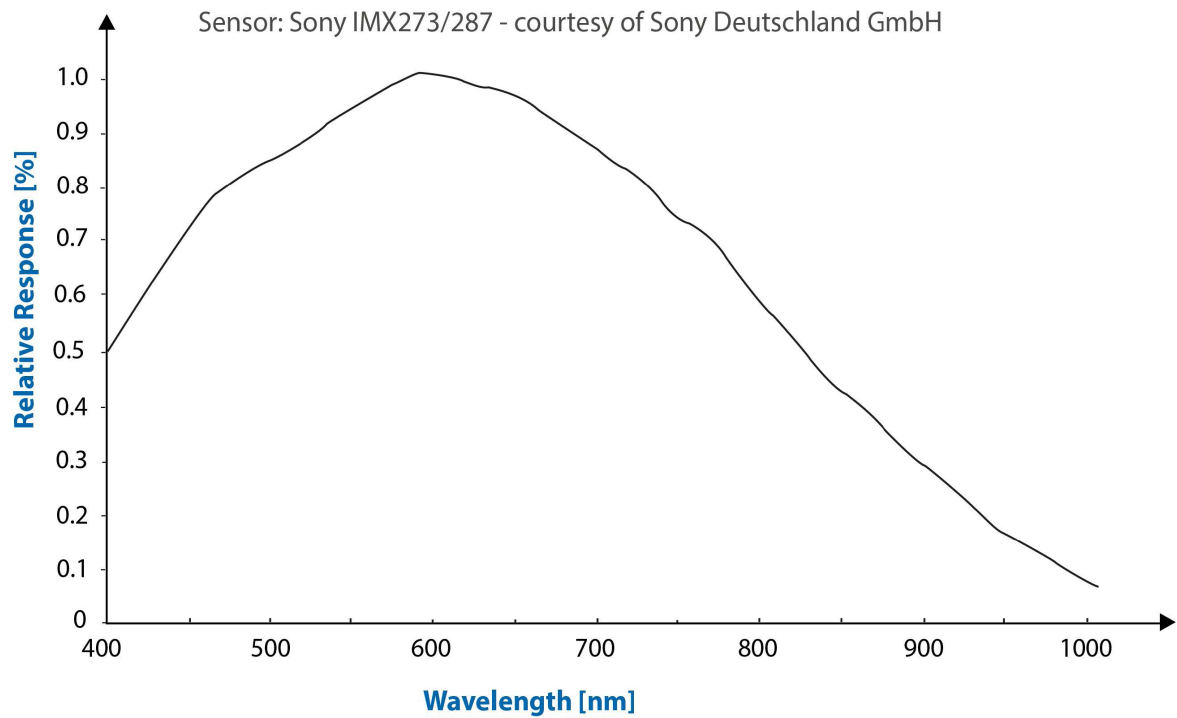
Specifications

Model	Sensor	Sensor Type	Shutter	Resolution	Frame rate (fps)	Bit depth	Interface	Mono/ Color	Pixel size (μm)	Sensor size
HC-CA004-10UM	Sony® IMX287	CMOS	Global	720×540	526.5	12	USB 3.0	Mono	6.9 × 6.9	1/2.9"
HC-CA004-10UC	Sony® IMX287	CMOS	Global	720×540	526.5	12	USB 3.0	Color	6.9 × 6.9	1/2.9"

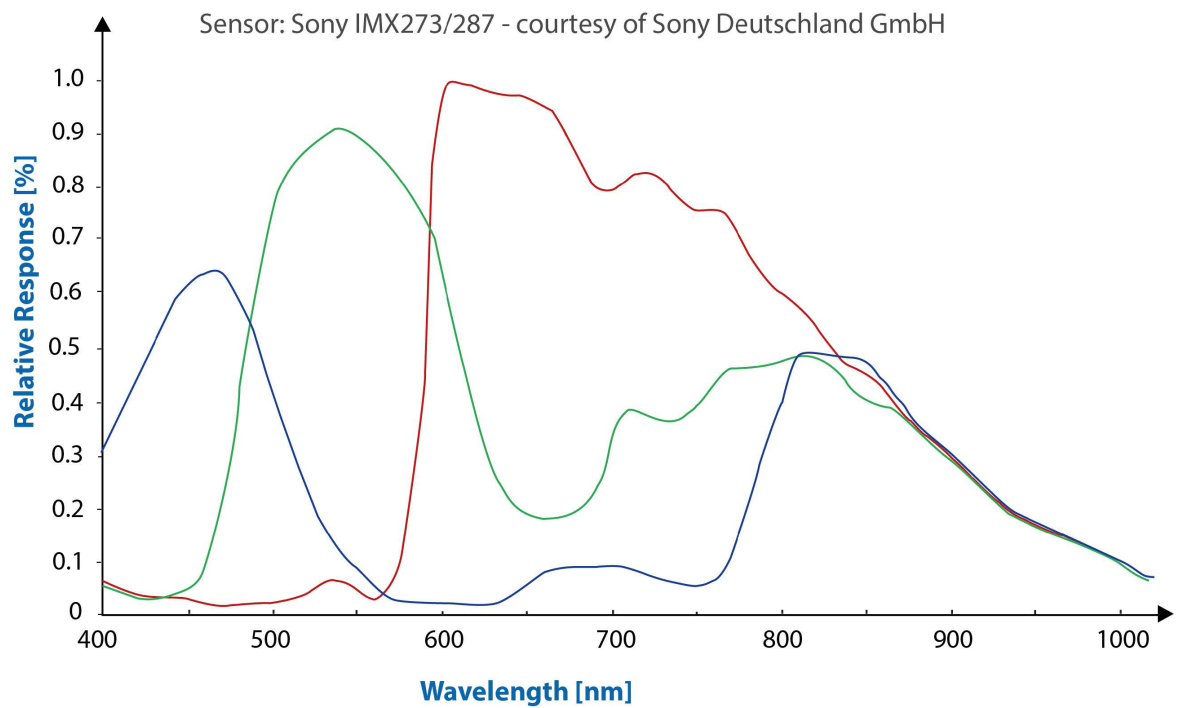
Model	HC-CA004-10UM	HC-CA004-10UC
Effective Pixels	0.4MP	
SNR	41 dB	
Dynamic Range	74 dB	
GPIO	6-pin Hirose connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), and bi-directional non-isolated I/O × 1 (Line 2)	
Image Format	Mono 8/10/10p/12/12p	Mono 8/10/12 Bayer RG 8/10/10p/12/12p YUV422Packed, YUV422_YUYV_Packed RGB 8, BGR 8
Binning	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2, 4 × 4	
Gain	0 dB to 20 dB	
Reverse image	Supports horizontal and vertical reverse image output	
Exposure Time	Super shot exposure mode: 1 μs ~ 14 μs; Standard exposure mode: 15 μs ~ 10 sec	
Trigger Mode	Software trigger/Hardware trigger/Free run mode	
Image Buffer	128MB	
User Setting	Support two sets of user-defined configurations	
Dimensions	29mm*29mm*30mm	
Weight	Approx. 80 g (0.2 lb.)	
Power Supply	Power supply via USB connector	
Power Consumption	Typ. 3 W@5 VDC	
Lens Mount	C-mount	
Temperature	Storage temperature: -30° C ~ + 70° C; Operation temperature: 0° C ~ +50° C	
Compatibility	USB3 Vision, GenICam	

Spectral Characteristics

Spectral Sensitivity - HC-CA004-10UM

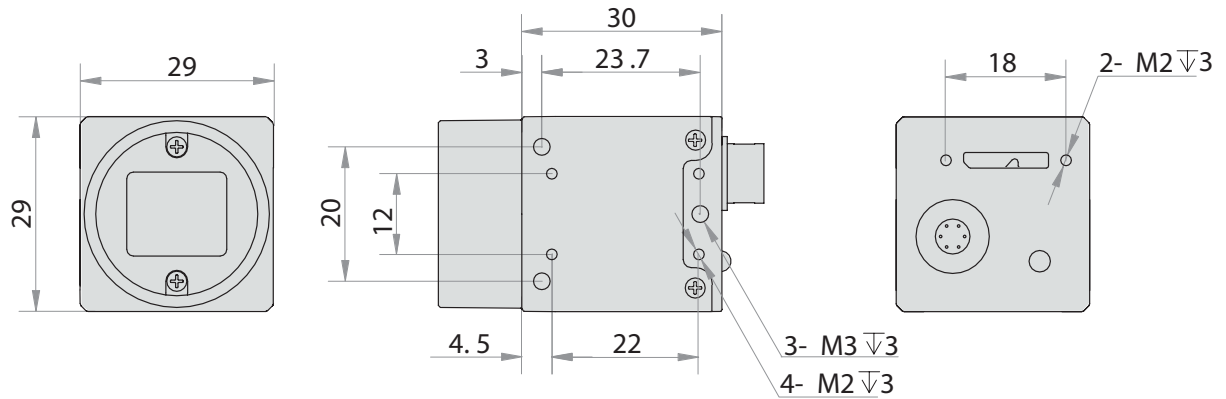


Spectral Sensitivity - HC-CA004-10UC



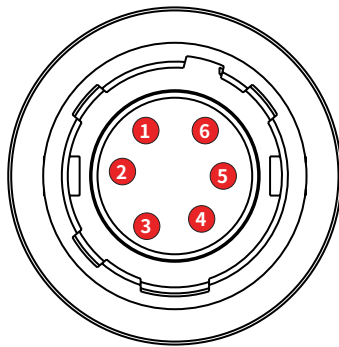
Dimensional Diagrams

HC-CA004-10UM/UC (Unit:mm)



I/O Connector

6pin power & I/O port



Pin	Signal	Description
1	DC_PWR	Camera Power
2	Line0+	Opto-isolated input
3	Line2+	GPIO (Configurable IO input/output)
4	Line1+	Opto-isolated output
5	Line0/1-	Opto-isolated ground
6	Line2-	Camera power ground



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