

1GigE Industrial Area Scan Camera

Model

PMSCCN2008VPH2



HIGHLIGHTS



Compact 1GigE area scan camera



Ultra-low power consumption for more stable operation



Gigabit Ethernet interface, max transmission distance 100 m (without repeater)

1GigE Industrial Area Scan Camera



1. Performance Features

- 1GigE network transmission with strong anti-interference performance
- Improved ease of use, stability, and reliability
- 1-inch sensor, 21 MP high resolution
- Supports white balance, color temperature correction, and other ISP functions
- 12–24V wide input power range, compatible with more device power systems
- Dimensions: 29 mm × 29 mm × 44.5 mm



2. Specifications

Model	PMSCCN2008VPH2
Description	21 MP Color 1GigE Industrial Area Scan Camera
Sensor Type	CMOS, Rolling Shutter
Resolution	5480 × 3648
Sensor Size	1"
Pixel Size	2.4 μm × 2.4 μm
Color/Mono	Color
Max Frame Rate	5.9 FPS @ 5480 × 3648 BayerRG8
Dynamic Range	65.5 dB
SNR	38.5 dB
Pixel Bit Depth	12 bit
Gain	Analog gain x1–x16, step 0.1x
Exposure Time	45 μs – 12 s, step 45 μs
Exposure Mode	Auto exposure / Manual exposure
Flash Function	Supported
Output Image Format	BayerRG8 / BayerRG12Packed / Mono8 / Mono12Packed / YUV
Binning	Supports arbitrary binning
Trigger Mode	Hardware trigger, Software trigger
Image Buffer	1 Gbit

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ISP Functions

Contrast adjustment, gamma correction, LUT, sharpness adjustment, noise reduction, black level correction, flat field correction, defective pixel correction, horizontal/vertical mirror



Electrical Characteristics

Data Interface	1000 Mbps Ethernet, RJ45 connector / 6-pin aviation connector for power and I/O
I/O	1 opto-isolated input, 1 opto-isolated output, 1 GPIO (non-isolated)
Power Supply	DC 12–24 V ($\pm 10\%$); PoE
Typical Power Consumption	<4 W @ 24 VDC



Mechanical & Environmental

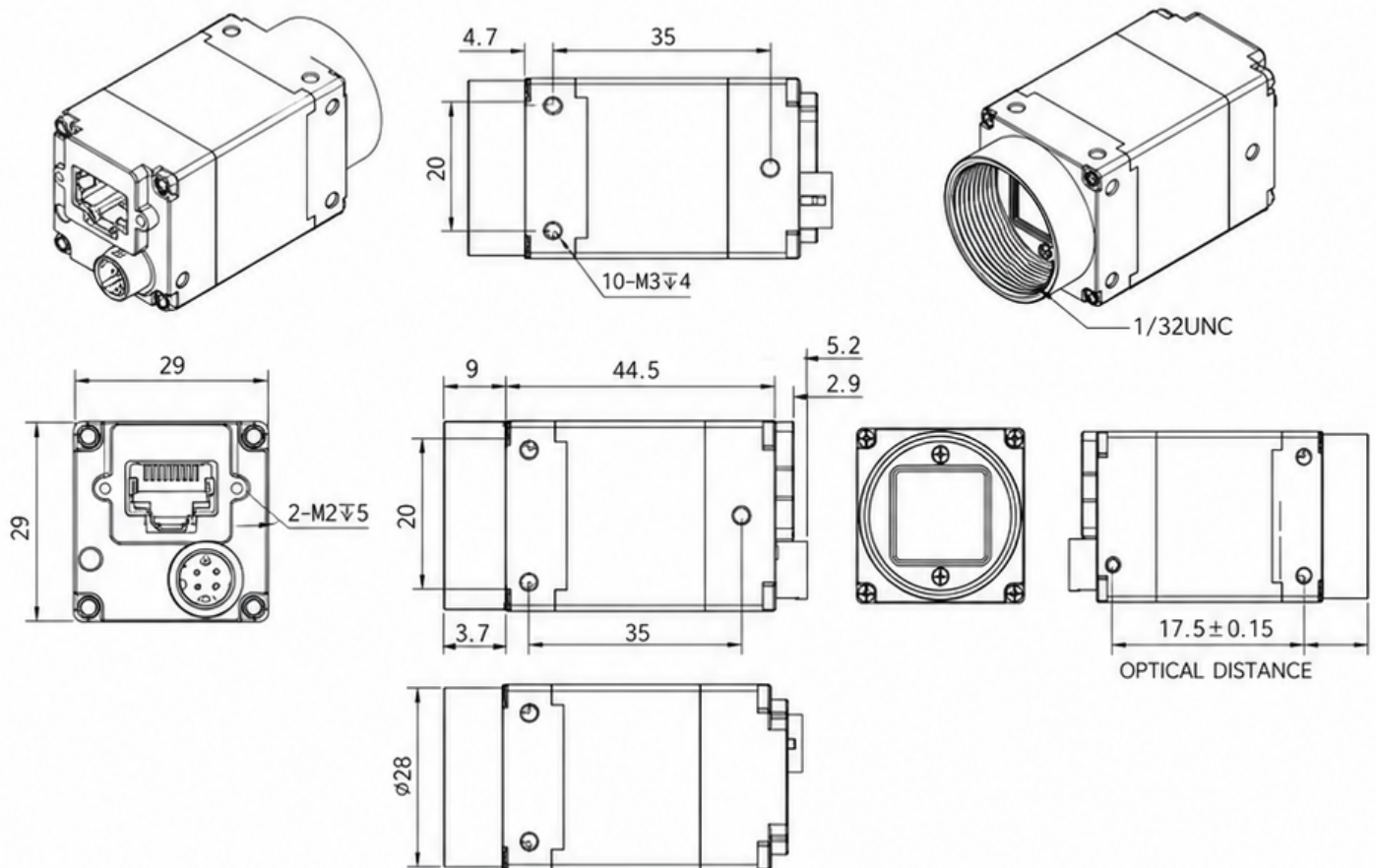
Lens Mount	C-Mount
I/O and Power Interface	6-pin industrial circular aviation connector
Filter	AR coated protective glass
Dimensions	29 mm × 29 mm × 44.5 mm (excluding lens mount)
Weight	Approx. 73.5 g
IP Rating	IP40 (with lens and cables correctly installed)
Temperature	Operating: 10°C to 50°C; Storage: -20°C to 70°C
Humidity	5% to 90% RH (non-condensing)



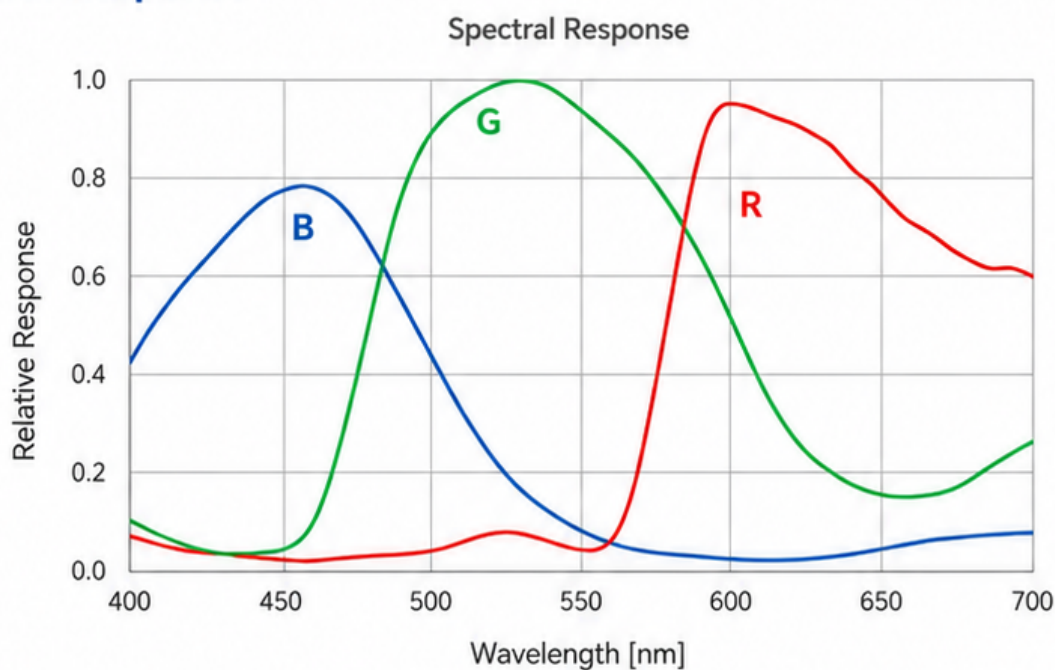
Software & Protocols

Software	SDK development package and related demo/calibration software BasedCam3
Operating Systems	Windows 7/10/11 32/64-bit; PC Linux 32/64-bit
Protocols / Standards	GigE Vision V1.2, GenICam
Compatible Software	NI MAX, Halcon, MV Viewer, MVS
Certifications	CE, RoHS

3. Mechanical Dimensions (Unit: mm)



4. Spectral Response



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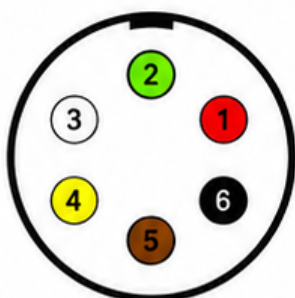
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5. Interface Definition

Pin	Wire Color	Definition	Line No.	Description	Isolation	Interface Circuit	Input / Output Parameters
1	Red	POWER_IN	—	Power input positive	—	—	12–24 V power input
2	Green	TRIG+	Line 1+	Trigger input positive	Isolated	Optocoupler	Low level: 0–1 V High level: 4.5–24 V
3	White	GPIO	Line 3+	Bidirectional I/O	Non-isolated	—	Input low: 0–0.7 V Input high: 2.9–3.6 V Output low: 0 V Output high: 3.6 V
4	Yellow	Flash_out+	Line 2+	Flash output positive	Isolated	Optocoupler	Optocoupler current limit: 20 mA NPN output
5	Brown	COM	Line 1/2–	Common negative for trigger / flash optocoupler	Isolated	Optocoupler	—
6	Black	GND	Line 3–	Power negative / GPIO ground	—	—	—
Shield	Transparent	Shield Wire	—	Connected to camera housing	—	—	Note: shield wire uses transparent heat-shrink tubing

Trigger Socket (Binder 712)



- ① Red POWER_IN
- ② Green TRIG+
- ③ White GPIO
- ④ Yellow Flash_out+
- ⑤ Brown COM
- ⑥ Black GND
- Shield Transparent (Shield Wire)

GigE / Power Interface (RJ45 with Power)

