

PMS-CCN-050E15CSC

Gigabit Ethernet industrial camera

PMS-CCN-050E15CSC industrial camera with 5 MP (2448×2048), 2/3" global shutter CMOS sensor and 20 fps @ 2448×2048. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	2/3" CMOS
Sensor Format	2/3"
Shutter Type	Global shutter
Resolution	5 MP (2448×2048)
Pixel Size	3.45 μm × 3.45 μm
Frame Rate	20 fps @ 2448×2048
Color Type	Color
Interface	GigE (Gigabit Ethernet), 1 Gbit/s
Maximum Cable Length	100 m without a repeater
Protocol Compatibility	GigE Vision V2.0; GenICam
Signal-to-noise Ratio	>38 dB
Dynamic Range	>70 dB
White Balance	Normal auto white balance
Gain Range	1×-32×
Bit Depth	12 bit
Exposure Time	34 μs-1 s
Power over Ethernet	Supported
GPIO	6-pin Hirose: 1 opto-isolated input, 1 opto-isolated output and 1 configurable non-isolated input/output
Gamma	0-4; LUT supported
Image Buffer	128 MB
Memory Channel	2 groups of user-defined configurations
Image Format	Mono8; Bayer GB8/10//10PackedBayerGB8/10/10Packed; YUV422Packed (as printed)
Binning	Not supported
ROI	Supported

Model Specifications	
X Flip	Supported
Y Flip	Supported
SPC	Supported
Power Supply	PoE or DC 6-26 V via Hirose connector
Power Consumption	3.2 W at 12 V
Operating Temperature	-30 °C to +50 °C
Storage Temperature	-30 °C to +80 °C
Dimensions	29 × 29 × 42 mm, excluding lens mount and rear housing connector
Weight	88 g
Lens Mount	C-mount

Features & Applications	
Feature 1	Gigabit Ethernet transfers uncompressed image data over cables up to 100 m without a repeater.
Feature 2	Automatic or manual gain, exposure and gamma adjustment; lookup-table processing.
Feature 3	GigE Vision V2.0 and GenICam compatibility for third-party software integration.
Applications	Machine vision; Industrial inspection; Microscopic imaging; Visual positioning; Dimensional measurement

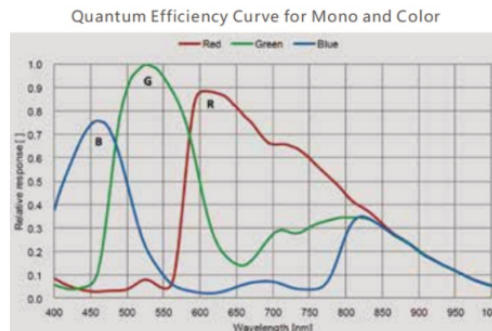
I/O Connector Pinout

Pin	Signal	Description
1	Power	+6-26 V DC supply
2	Line1	Opto-isolated input
3	Line2	Configurable non-isolated input/output
4	Line0	Opto-isolated output
5	IO GND	Optocoupler isolated ground
6	GND	DC power ground

Published specification notes

The detailed model sheet and series catalogs specify color CMOS. The listing's monochrome/CCD description is inconsistent. The printed Bayer format string contains a duplicate; it is retained here.

PMS-CCN-050E15CSC sensor response curve from its model datasheet



PMS-CCN-050E15CSC product size diagram from its model datasheet

