

PMS-CCN-013D15BSC

Gigabit Ethernet industrial camera

PMS-CCN-013D15BSC industrial camera with 1.3 MP (1280×1024), 1/2" global shutter CMOS sensor and 60 fps @ 1280×1024. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	1/2" CMOS
Sensor Format	1/2"
Shutter Type	Global shutter
Resolution	1.3 MP (1280×1024)
Pixel Size	4.8 μm × 4.8 μm
Frame Rate	60 fps @ 1280×1024
Color Type	Monochrome
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	60 dB
Binning	Not supported
Decimation	Supported
ROI	Supported
Gain Range	1×-32×
Bit Depth	10 bit
Exposure Time	1 μs-1 s
SPC	Supported
FPN	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	64 MB
Memory Channel	2 groups of user-defined configurations

Model Specifications	
Image Format	Mono8/10/10Packed
Power Supply	DC 6-26 V via Hirose connector
Power Consumption	3.4 W at 12 V
Operating Temperature	-30 °C to +50 °C
Storage Temperature	-30 °C to +80 °C
Dimensions	29 × 29 × 42 mm
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

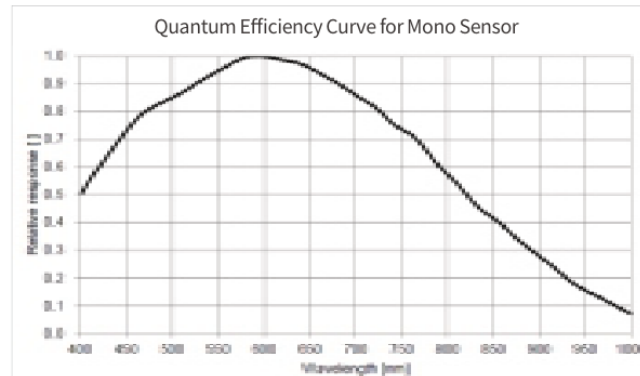
Pin	Signal	Description
1	Power	+6-26 V DC supply
2	Line1	Opto-isolated input
3	Line2	Configurable non-isolated input/output
4	Line0	Opto-isolated output
5	IO GND	Optocoupler isolated ground
6	GND	DC power ground

Published specification notes

The model table shifts the GPIO, gamma, image-buffer and memory-channel labels. The values are assigned by their units and descriptions; the GPIO assignment is corroborated by the sheet's I/O pin table.

The table calls the output color. The series catalogs, Mono-only formats and exact-model monochrome response curve identify this as monochrome. The detailed table specifies CMOS and 60 fps; the CCD listing and 65.2 fps introductory boilerplate are not used.

PMS-CCN-013D15BSC sensor response curve from its model datasheet



PMS-CCN-013D15BSC product size diagram from its model datasheet

