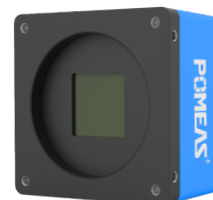


PMS-CCN-120H15CSF

Large-format Gigabit Ethernet industrial camera

PMS-CCN-120H15CSF industrial camera with 12 MP (4096×3072), 4/3" global shutter CMOS sensor and 9 fps @ 4096×3072. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	PYTHON 12K CMOS
Sensor Format	4/3"
Shutter Type	Global shutter
Resolution	12 MP (4096×3072)
Pixel Size	4.5 µm × 4.5 µm
Frame Rate	9 fps @ 4096×3072
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
Published Camera Output	Colour Camera
Bit Depth	10 bit
Signal-to-noise Ratio	>41 dB
Dynamic Range	58 dB
Gain Range	1×-32×
Gamma	0-4; LUT supported
Flat Field Correction	Supported
Bad Pixel Correction	Supported
Exposure Time	1 µs-1 s
GPIO	3 opto-isolated inputs; 3 opto-isolated outputs; 1 RS232 serial interface
Image Format	Mono8; BayerRG8/10/10Packed; BayerGB8/10/10Packed; YUV422Packed
X Flip	Supported
Y Flip	Supported
ROI	Supported
SPC	Supported

Model Specifications	
White Balance	Supported
Image Acquisition Mode	Software trigger / hardware trigger / free run
Image Buffer	256 MB
Memory Channel	2 groups of user-defined configurations
Power Supply	DC 12-26 V via 12-pin Hirose connector
Power Consumption	Approximately 9 W at 24 V
Operating Temperature	-30 °C to +50 °C
Storage Temperature	-30 °C to +80 °C
Dimensions	72 × 72 × 46 mm, excluding backshell interface
Weight	430 g
Lens Mount	M58×0.75
Flange Back Length	12.3 mm
Optional Lens Interfaces	F-mount or V-mount (product-page options)

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

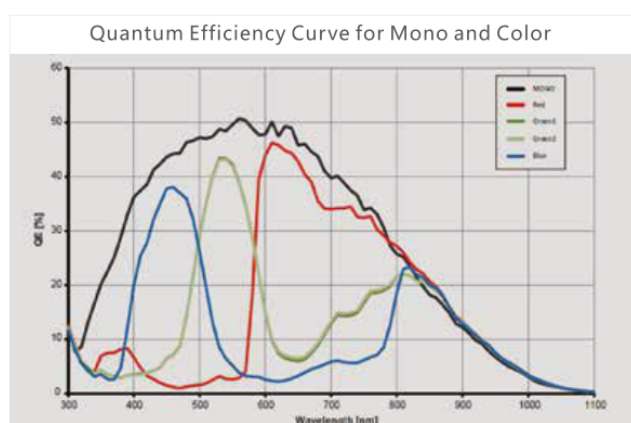
Pin	Signal	Description
1	GND	Camera power ground
2	Power	Camera power
3	RXD RS232	Serial receive
4	TXD RS232	Serial transmit
5	Line1	Opto-isolated input 1
6	Line2	Opto-isolated input 2
7	Line3	Opto-isolated input 3
8	OPT_IN_GND	Optocoupler input ground; do not connect to power supply
9	Line1	Opto-isolated output 1
10	Line2	Opto-isolated output 2
11	Line3	Opto-isolated output 3
12	GNOPT_OUT_GND	Optocoupler output ground; do not connect to power supply

Published specification notes

The introductory megapixel label contains a 1.2 MP typo; 4096 × 3072 and the catalog establish the 12 MP class. The mechanical table specifies DC 12-26 V, while feature copy gives 12-24 V; confirm the supply for the ordered configuration.

The detailed model table and full catalog identify this as color; the product description's B/W wording is inconsistent. The full catalog identifies the sensor as PYTHON 12K.

PMS-CCN-120H15CSF sensor response curve from its model datasheet



PMS-CCN-120H15CSF product size diagram from its model datasheet

