

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

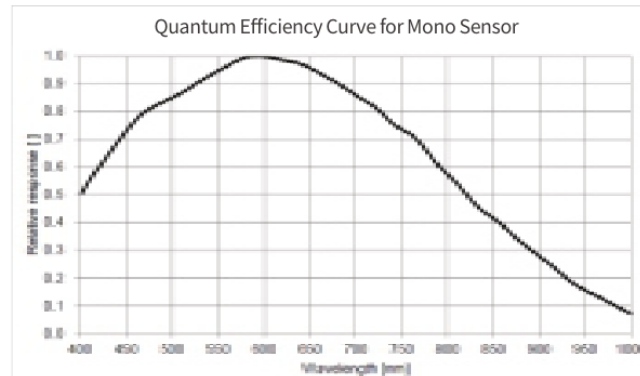
Pin	Signal	Description
1	Power	+6-26 V DC supply
2	Line1	Opto-isolated input
3	Line2	Configurable non-isolated input/output
4	Line0	Opto-isolated output
5	IO GND	Optocoupler isolated ground
6	GND	DC power ground

Published specification notes

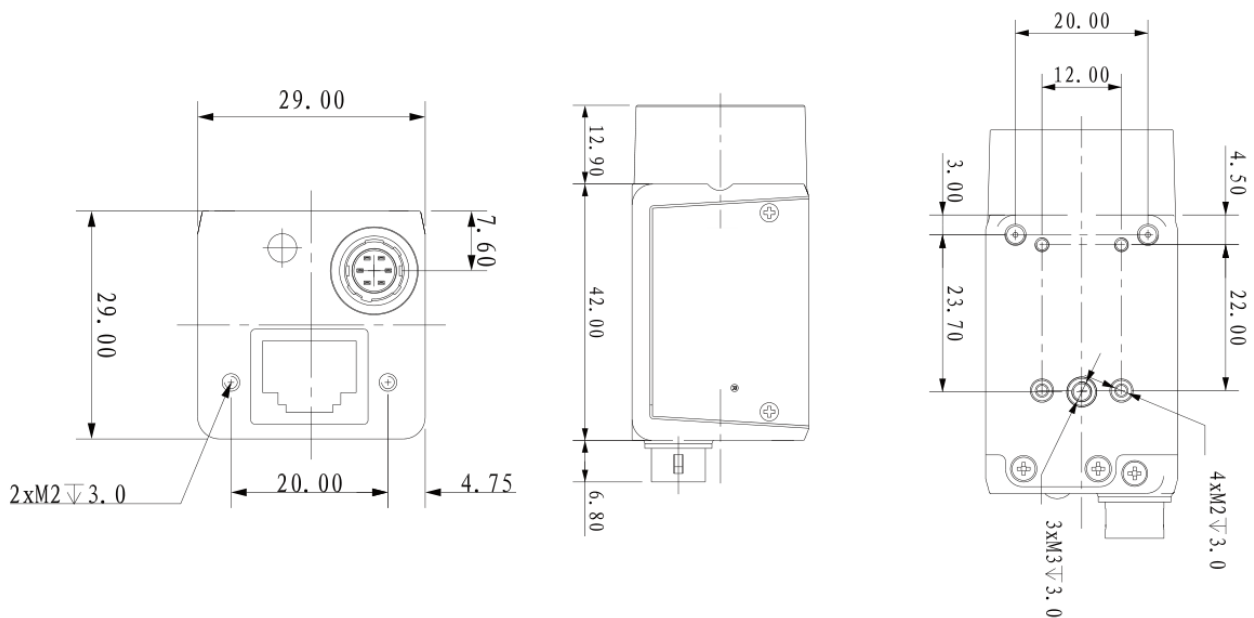
The model table shifts the GPIO, gamma, image-buffer and memory-channel labels. The values are assigned by their units and descriptions; the GPIO assignment is corroborated by the sheet's I/O pin table.

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



PMS-CCN-013D15CSC

Gigabit Ethernet industrial camera

PMS-CCN-013D15CSC 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	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	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; BayerRG8/10/10Packed; BayerGB8/10/10Packed; YUV422Packed
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

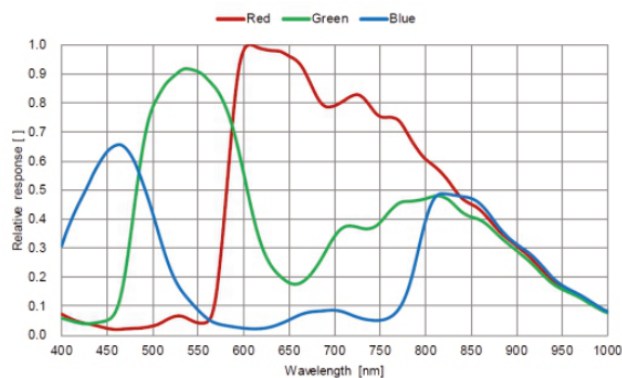
Published specification notes

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.

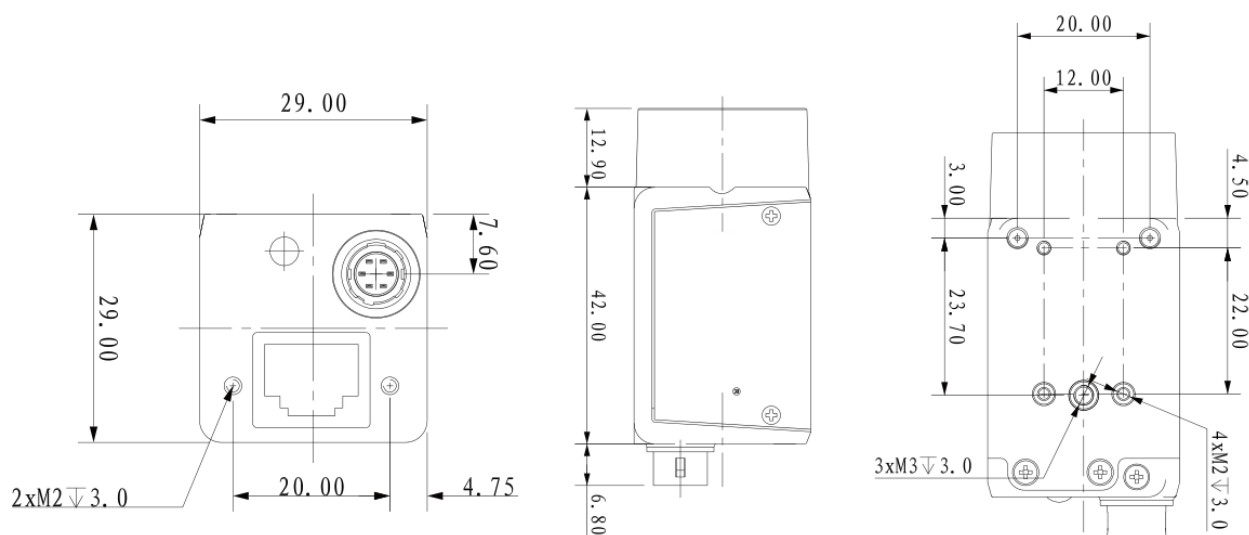
The detailed table gives 1280 × 1024 CMOS; the listing's 1280 × 10240 and CCD wording are inconsistent. The model table's 60 fps is used instead of the 65.2 fps introductory boilerplate.

PMS-CCN-013D15CSC sensor response curve from its model datasheet

Quantum Efficiency Curve for Mono and Color



PMS-CCN-013D15CSC product size diagram from its model datasheet



PMS-CCN-020M15CSC

Gigabit Ethernet industrial camera

PMS-CCN-020M15CSC industrial camera with 2 MP (1920×1080), 1/2.8" rolling shutter CMOS sensor and 22 fps @ 1920×1080. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	1/2.8" CMOS
Sensor Format	1/2.8"
Shutter Type	Rolling shutter
Resolution	2 MP (1920×1080)
Pixel Size	2.9 μm × 2.9 μm
Frame Rate	22 fps @ 1920×1080
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
Signal-to-noise Ratio	>38 dB
Dynamic Range	60 dB
HDR	DOL mode HDR supported
Exposure Time	17.5 μs-1 s
GPIO	6-pin Hirose: 1 opto-isolated input, 1 opto-isolated output and 1 configurable non-isolated input/output
Image Format	Mono8; Bayer GB8/10//10PackedBayerGB8/10/10Packed; YUV422Packed (as printed)
Binning	Not supported
Decimation	Not supported
ROI	Not supported
Gain Range	1×-32×
Gamma	0-4; LUT supported
Image Acquisition Mode	Software trigger / hardware trigger / free run
Image Buffer	64 MB

Model Specifications	
SPC	Supported
FPN	Not supported
Memory Channel	2 groups of user-defined configurations
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
Operating Humidity	20-95% RH, non-condensing
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

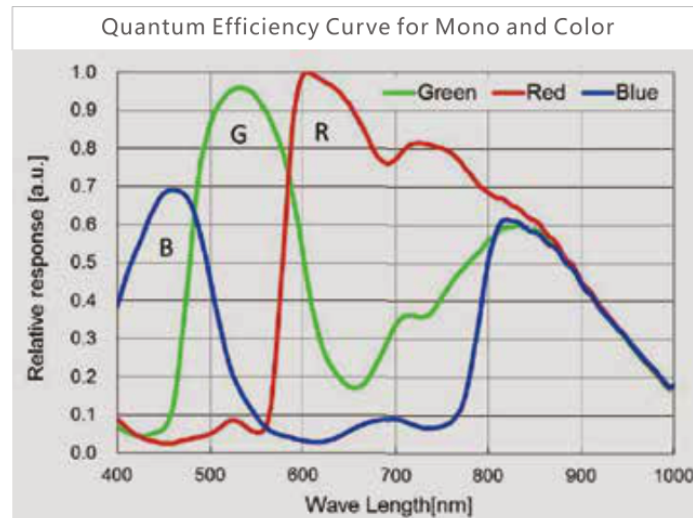
Pin	Signal	Description
1	Power	+6-26 V DC supply
2	Line1	Opto-isolated input
3	Line2	Configurable non-isolated input/output
4	Line0	Opto-isolated output
5	IO GND	Optocoupler isolated ground
6	GND	DC power ground

Published specification notes

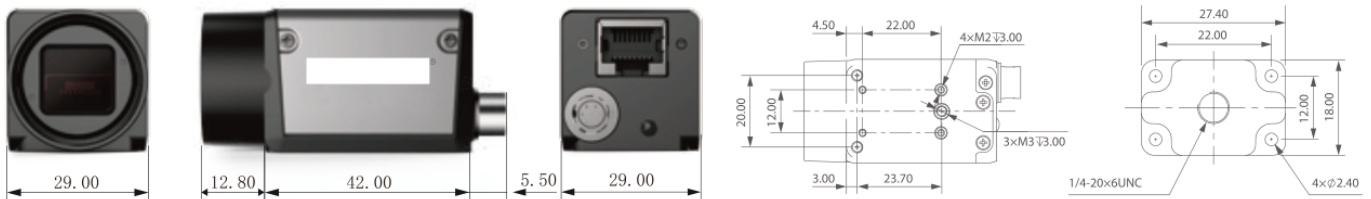
The top of the source table shifts the resolution, pixel size, frame rate and SNR labels by one row. Units and both series catalogs establish 1920 × 1080, 2.9 μm, 22 fps and >38 dB. No reliable ADC bit depth is published in this table; none is inferred. The detailed CMOS/color table takes precedence over the CCD/mono listing.

The image-format string is reproduced as printed; its Bayer names contain a duplicate.

PMS-CCN-020M15CSC sensor response curve from its model datasheet



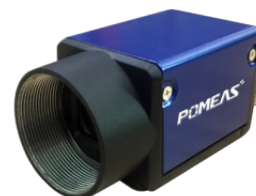
PMS-CCN-020M15CSC product size diagram from its model datasheet



PMS-CCN-020Q25BSC-30

Gigabit Ethernet industrial camera

PMS-CCN-020Q25BSC-30 industrial camera with 2 MP (1920×1200), 1/1.2" global shutter CMOS sensor and 39 fps @ 1920×1200. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	1/1.2" CMOS
Sensor Format	1/1.2"
Shutter Type	Global shutter
Resolution	2 MP (1920×1200)
Pixel Size	5.86 μm × 5.86 μm
Frame Rate	39 fps @ 1920×1200
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 (model table); B&W (series catalogs)
Bit Depth	12 bit
Signal-to-noise Ratio	>38 dB
Dynamic Range	>70 dB
Exposure Time	26 μs-1 s
GPIO	6-pin Hirose: 1 opto-isolated input, 1 opto-isolated output and 1 configurable non-isolated input/output
Image Format	Mono8; BayerRG8/10/10Packed; BayerGB8/10/10Packed; YUV422Packed
Power over Ethernet	Supported
Binning	Not supported
ROI	Supported
X Flip	Supported
Y Flip	Supported
Gain Range	1×-32×
White Balance	Normal auto white balance
Gamma	0-4; LUT supported

Model Specifications	
Image Buffer	128 MB
Memory Channel	2 groups of user-defined configurations
SPC	Supported
Power Supply	PoE or DC 6-26 V via Hirose connector
Power Consumption	2.8 W at 12 V
Operating Temperature	-30 °C to +50 °C
Storage Temperature	-30 °C to +80 °C
Operating Humidity	20-95% RH, non-condensing
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

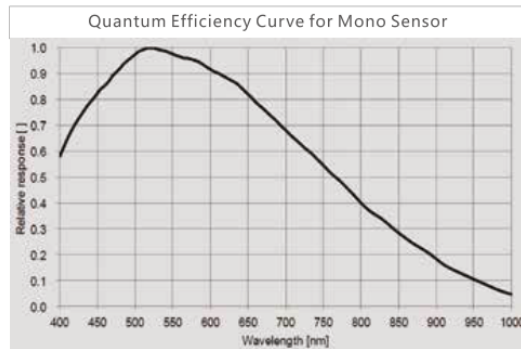
Pin	Signal	Description
1	Power	+6-26 V DC supply
2	Line1	Opto-isolated input
3	Line2	NA (as printed)
4	Line0	Opto-isolated output
5	IO GND	Optocoupler isolated ground
6	GND	DC power ground

Published specification notes

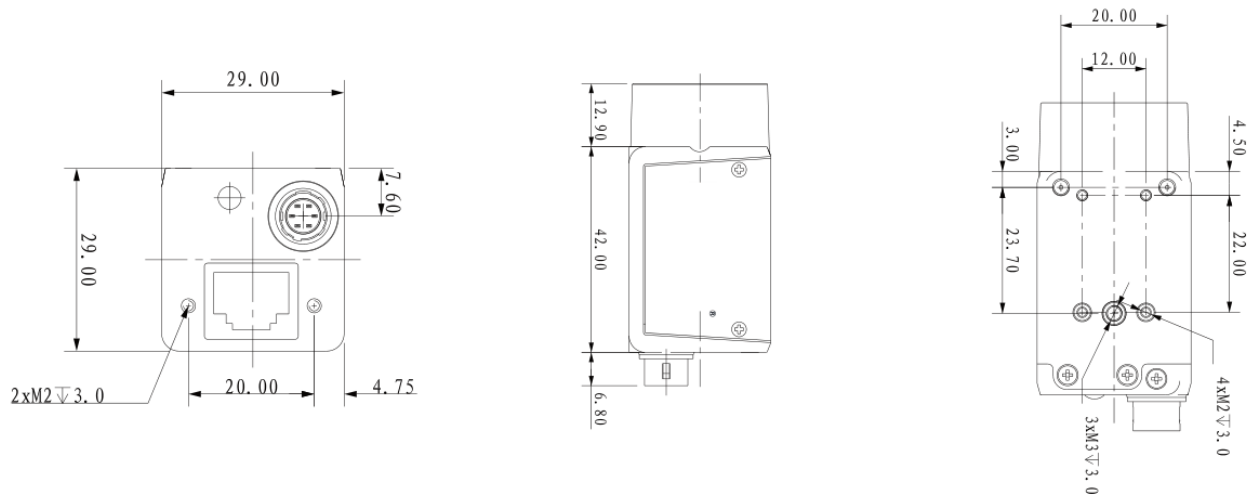
The exact-model table calls this color and lists Bayer formats; both series catalogs call it B&W. Image type remains unconfirmed and is excluded from mono/color filters. The detailed table and catalogs identify a global-shutter CMOS sensor, despite the CCD listing.

The connector pin table marks pin 3 as NA, while the GPIO summary describes a configurable I/O. Confirm the pin assignment before wiring. The model table specifies a 128 MB buffer; the feature boilerplate says 64 MB.

PMS-CCN-020Q25BSC-30 sensor response curve from its model datasheet



PMS-CCN-020Q25BSC-30 product size diagram from its model datasheet



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

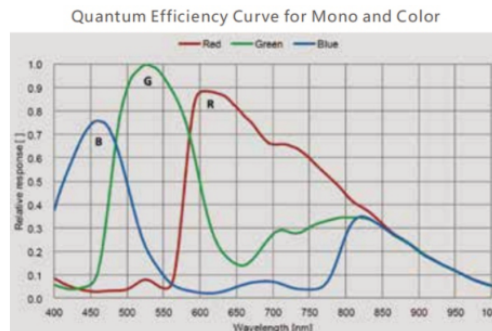
I/O Connector Pinout

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

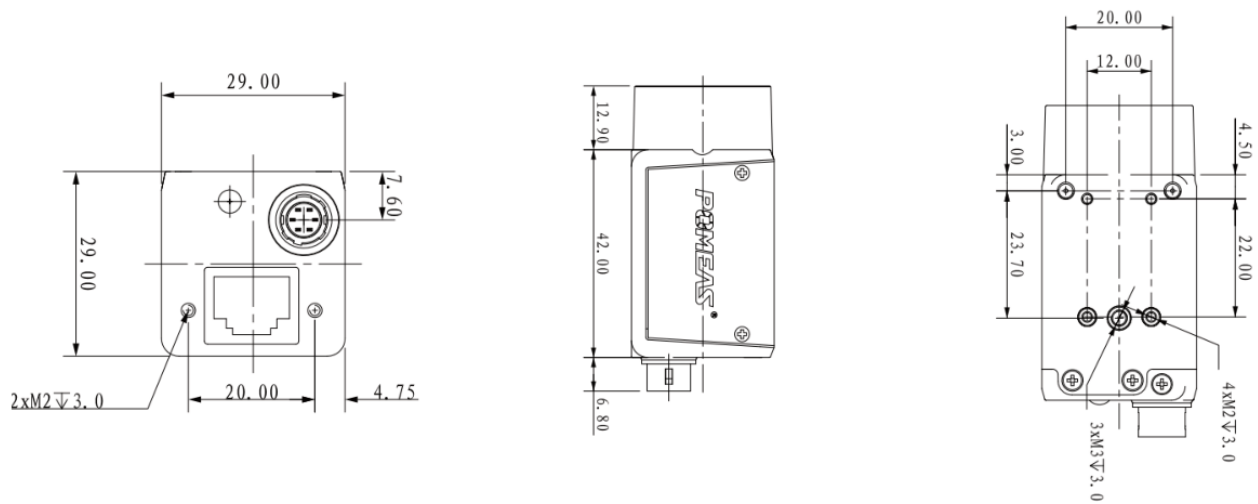
Published specification notes

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



PMS-CCN-060C15BSC

Gigabit Ethernet industrial camera

PMS-CCN-060C15BSC industrial camera with 6 MP (3072×2048), 1/1.8" rolling shutter CMOS sensor and 18 fps @ 3072×2048. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	1/1.8" CMOS
Sensor Format	1/1.8"
Shutter Type	Rolling shutter
Resolution	6 MP (3072×2048)
Pixel Size	2.4 μm × 2.4 μm
Frame Rate	18 fps @ 3072×2048
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
Bit Depth	12 bit
Signal-to-noise Ratio	>38 dB
Dynamic Range	>66 dB
Gain Range	1×-32×
Gamma	0-4; LUT supported
Exposure Time	25 μs-1 s
Exposure Modes	Automatic / manual / one-touch exposure
GPIO	6-pin Hirose: 1 opto-isolated input, 1 opto-isolated output and 1 configurable non-isolated input/output
Image Buffer	64 MB
Image Format	Mono8/10/10Packed/12/12Packed
Memory Channel	2 groups of user-defined configurations
Binning	Supported
ROI	Supported
SPC	Supported

Model Specifications	
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

Published specification notes

The table's mechanical section shifts power and temperature labels; electrical units and temperature ranges establish their intended fields. The detailed CMOS sensor table takes precedence over inconsistent listing descriptions.

PMS-CCN-060C15CSC

Gigabit Ethernet industrial camera

PMS-CCN-060C15CSC industrial camera with 6 MP (3072×2048), 1/1.8" rolling shutter CMOS sensor and 18 fps @ 3072×2048. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	1/1.8" CMOS
Sensor Format	1/1.8"
Shutter Type	Rolling shutter
Resolution	6 MP (3072×2048)
Pixel Size	2.4 μm × 2.4 μm
Frame Rate	18 fps @ 3072×2048
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
Bit Depth	12 bit
Signal-to-noise Ratio	>38 dB
Dynamic Range	>66 dB
Gain Range	1×-32×
Gamma	0-4; LUT supported
Exposure Time	25 μs-1 s
Exposure Modes	Automatic / manual / one-touch exposure
GPIO	6-pin Hirose: 1 opto-isolated input, 1 opto-isolated output and 1 configurable non-isolated input/output
Image Buffer	64 MB
Image Format	Mono8; Bayer GB8/10//10PackedBayerGB8/10/10Packed; YUV422Packed (as printed)
Memory Channel	2 groups of user-defined configurations
Binning	Not supported
ROI	Supported
SPC	Supported

Model Specifications	
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

Published specification notes

The table's mechanical section shifts power and temperature labels; electrical units and temperature ranges establish their intended fields. The detailed CMOS sensor table takes precedence over inconsistent listing descriptions.

The printed Bayer format string contains a duplicate; it is retained here.

PMS-CCN-100K15BSC

Gigabit Ethernet industrial camera

PMS-CCN-100K15BSC industrial camera with 10 MP (3840×2748), 1/2.3" rolling shutter CMOS sensor and 10 fps @ 3840×2748. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	1/2.3" CMOS
Sensor Format	1/2.3"
Shutter Type	Rolling shutter
Resolution	10 MP (3840×2748)
Pixel Size	1.67 μm × 1.67 μm
Frame Rate	10 fps @ 3840×2748
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	>32 dB
Dynamic Range	65 dB
Gain Range	1×-32×
Bit Depth	12 bit
Exposure Time	25 μs-1 s
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
Image Format	Mono8/10/10Packed/12/12Packed
Binning	Supported
ROI	Supported
SPC	Supported
FPN	Supported

Model Specifications	
Power Supply	PoE or DC 6-26 V via Hirose connector
Power Consumption	Approximately 2.9 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

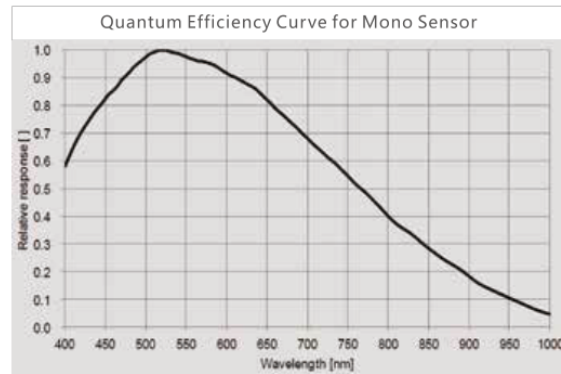
I/O Connector Pinout

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

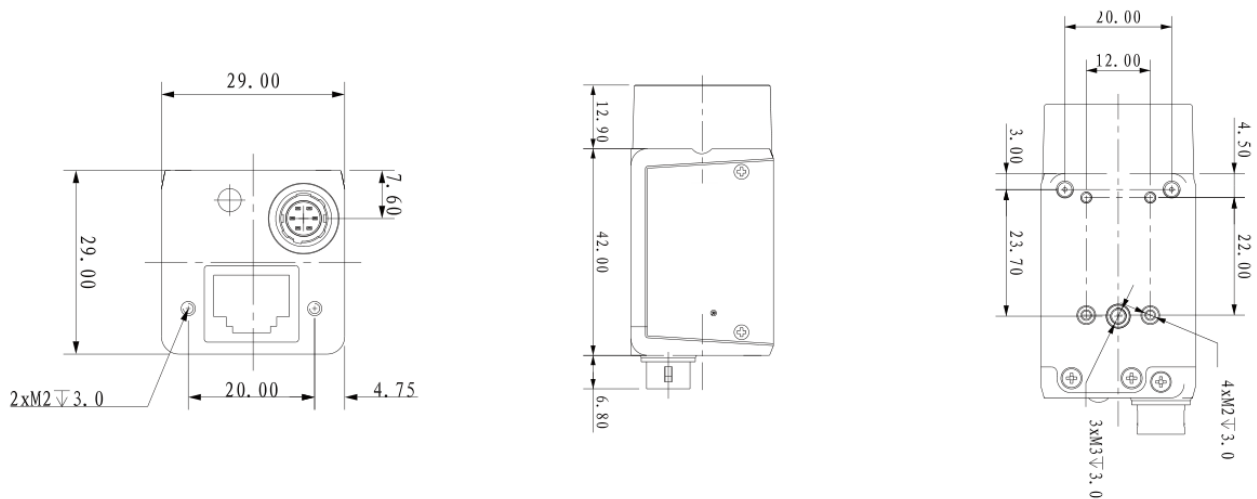
Published specification notes

The image-format row has a trailing "SupportSupported" transcription artifact, omitted from the format tokens. PoE is published under power supply even though the data-interface row only says GigE.

PMS-CCN-100K15BSC sensor response curve from its model datasheet



PMS-CCN-100K15BSC product size diagram from its model datasheet



PMS-CCN-120P15BSC

Gigabit Ethernet industrial camera

PMS-CCN-120P15BSC industrial camera with 12 MP (4096×3000), 1.1" global shutter CMOS sensor and 9 fps @ 4096×3000. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	1.1" CMOS
Sensor Format	1.1"
Shutter Type	Global shutter
Resolution	12 MP (4096×3000)
Pixel Size	3.45 μm × 3.45 μm
Frame Rate	9 fps @ 4096×3000
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
Bit Depth	12 bit
Signal-to-noise Ratio	>38 dB
Dynamic Range	>70 dB
Gain Range	1×-32×
White Balance	Supported
Gamma	0-4; LUT supported
Exposure Time	48 μs-1 s
GPIO	6-pin Hirose: 1 opto-isolated input and 1 opto-isolated output
Image Format	Mono8/10/10Packed/12/12Packed
Binning	Supported
Decimation	Not supported
ROI	Supported
X Flip	Supported
Y Flip	Supported
Image Acquisition Mode	Software trigger / hardware trigger / free run

Model Specifications	
Image Buffer	128 MB
Power over Ethernet	Supported
SPC	GigE, PoE (as printed; not a confirmed SPC specification)
FPN	Not supported
Memory Channel	2 groups of user-defined configurations
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 × 44 × 58 mm, excluding lens mount and rear housing connector
Weight	100 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

Published specification notes

The model table specifies a 1.1-inch sensor; the series catalogs print 1/1 inch. The exact-model format is used. The 128 MB buffer in the parameter table takes precedence over 64 MB feature boilerplate.

The published SPC row repeats “GigE, PoE”; it is preserved as an unresolved source error. A model-specific PDF is not linked on this product page; the sheet is typeset from the exact-model parameter image and corroborating series catalogs.

PMS-CCN-120P15CSC

Gigabit Ethernet industrial camera

PMS-CCN-120P15CSC industrial camera with 12 MP (4096×3000), 1.1" global shutter CMOS sensor and 9 fps @ 4096×3000. Gigabit Ethernet output for machine vision, inspection and dimensional measurement.



Model Specifications	
Sensor	1.1" CMOS
Sensor Format	1.1"
Shutter Type	Global shutter
Resolution	12 MP (4096×3000)
Pixel Size	3.45 μm × 3.45 μm
Frame Rate	9 fps @ 4096×3000
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
Bit Depth	12 bit
Signal-to-noise Ratio	>38 dB
Dynamic Range	>70 dB
Gain Range	1×-32×
White Balance	Normal auto white balance
Gamma	0-4; LUT supported
Exposure Time	48 μs-1 s
GPIO	6-pin Hirose: 1 opto-isolated input and 1 opto-isolated output
Image Format	Mono8; BayerRG8/10/10Packed; BayerGB8/10/10Packed; YUV422Packed
Binning	Supported
Decimation	Not supported
ROI	Supported
X Flip	Supported
Y Flip	Supported
Image Acquisition Mode	Software trigger / hardware trigger / free run

Model Specifications	
Image Buffer	128 MB
Power over Ethernet	Supported
SPC	Supported
FPN	Not supported
Memory Channel	2 groups of user-defined configurations
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 × 44 × 58 mm, excluding lens mount and rear housing connector
Weight	100 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

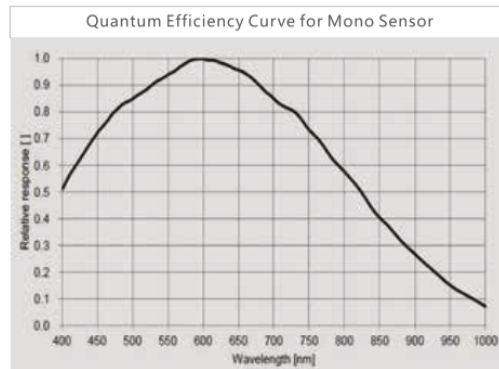
I/O Connector Pinout

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

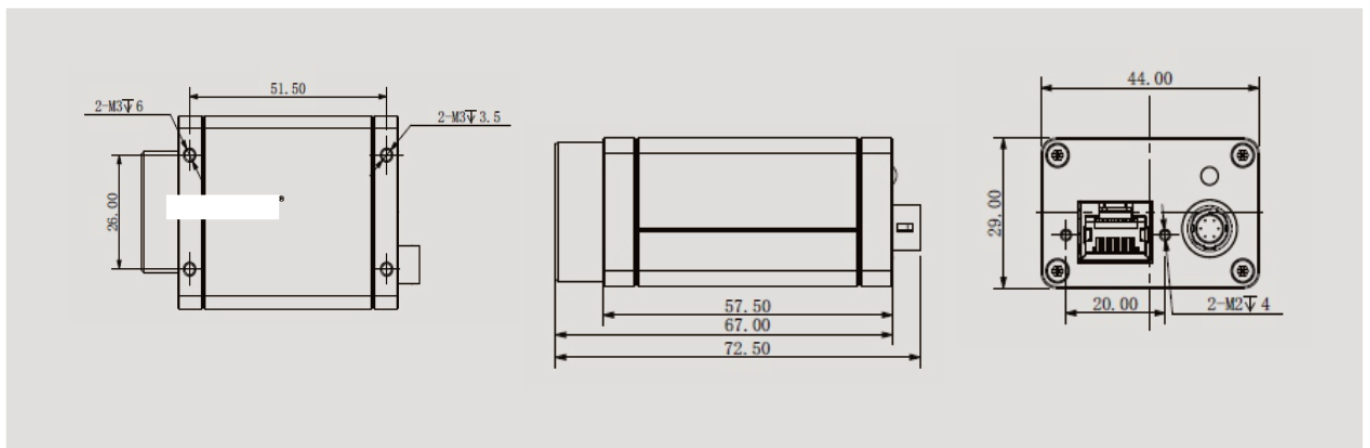
Published specification notes

The model table specifies a 1.1-inch sensor; the series catalogs print 1/1 inch. The exact-model format is used. The 128 MB buffer in the parameter table takes precedence over 64 MB feature boilerplate.

PMS-CCN-120P15CSC sensor response curve from its model datasheet



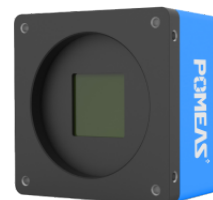
PMS-CCN-120P15CSC product size diagram from its model datasheet



PMS-CCN-120H15BSF

Large-format Gigabit Ethernet industrial camera

PMS-CCN-120H15BSF 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	4/3" 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
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
White Balance	Supported

Model Specifications	
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

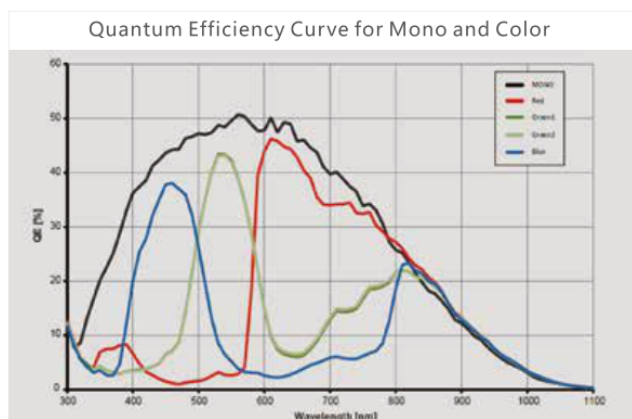
Pin	Signal	Description
1	GND	Camera power ground
2	Power	Camera power
3	RXD RS232	Serial receive
4	TXD RS232	Serial transmit
5	Line1	Opto-isolated input 1
6	Line2	Opto-isolated input 2
7	Line3	Opto-isolated input 3
8	OPT_IN_GND	Optocoupler input ground; do not connect to power supply
9	Line1	Opto-isolated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

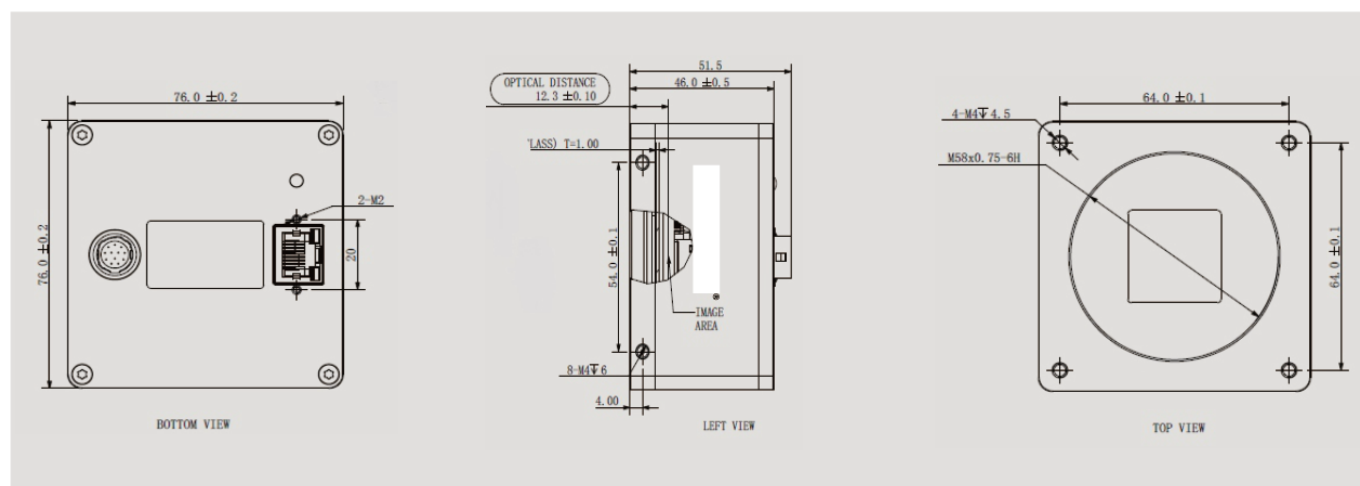
The introductory megapixel label contains a 1.2 MP typo; 4096 × 3072 and the catalog establish the 12 MP class. The mechanical table specifies DC 12-26 V, while feature copy gives 12-24 V; confirm the supply for the ordered configuration.

The product description calls this B/W, but its detailed table calls it color and lists Bayer/YUV formats. Image type remains unconfirmed and is excluded from mono/color filters.

PMS-CCN-120H15BSF sensor response curve from its model datasheet



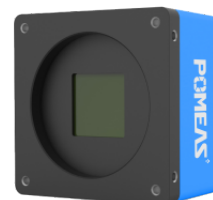
PMS-CCN-120H15BSF product size diagram from its model datasheet



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

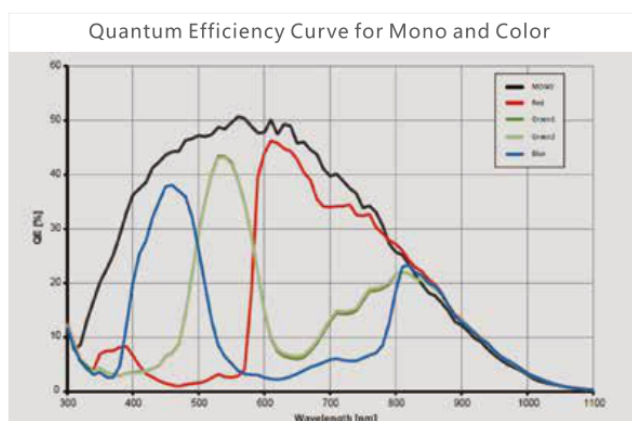
Pin	Signal	Description
1	GND	Camera power ground
2	Power	Camera power
3	RXD RS232	Serial receive
4	TXD RS232	Serial transmit
5	Line1	Opto-isolated input 1
6	Line2	Opto-isolated input 2
7	Line3	Opto-isolated input 3
8	OPT_IN_GND	Optocoupler input ground; do not connect to power supply
9	Line1	Opto-isolated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

