

VP-50MX

50 MEGAPIXEL THERMOELECTRIC PELTIER COOLED CAMERA



The VP-50MX, the latest member of the industrial proven VP series, is a 50 megapixel resolution CMOS camera with the CoaXPress interface. The VP-50MX uses the latest 50 megapixel CMOS image sensor (CMV50000) technology from AMS CMOSIS, and offers up to 30.9 frames per second at 7920 × 6004 resolution. This camera uses thermo-electric Peltier (TEC) cooling technology developed for, and used by, many demanding medical market customers. The TEC maintains the operating temperature of the CMOS image sensor at up to about 12 degrees below ambient temperature. This camera provides a stable operating condition or the ability to expose for a long period of time to increase camera sensitivity. Featured with the stable operating capability and high resolution, this camera is ideal for demanding applications such as FPD, PCB and semiconductor inspections.

VIEWWORKS

VP-50MX

50 MEGAPIXEL THERMOELECTRIC PELTIER COOLED CAMERA

Main Features

- * 50 Megapixel Resolution (AMS CMOSIS)
- * Thermoelectric Peltier Cooling
 - about 12 degrees below ambient temperature
- * Minimizing the number of hot pixels with TEC
- * CoaXPress Interface up to 30 fps at 25 Gbps using 4 CH
- * Pixel Defect Correction
- * Flat Field Correction
- * DSNU and PRNU Correction

Applications

- * Flat Panel Display Inspection
- * PCB Inspection
- * Machine Vision Inspection
- * Microscopy and Metrology

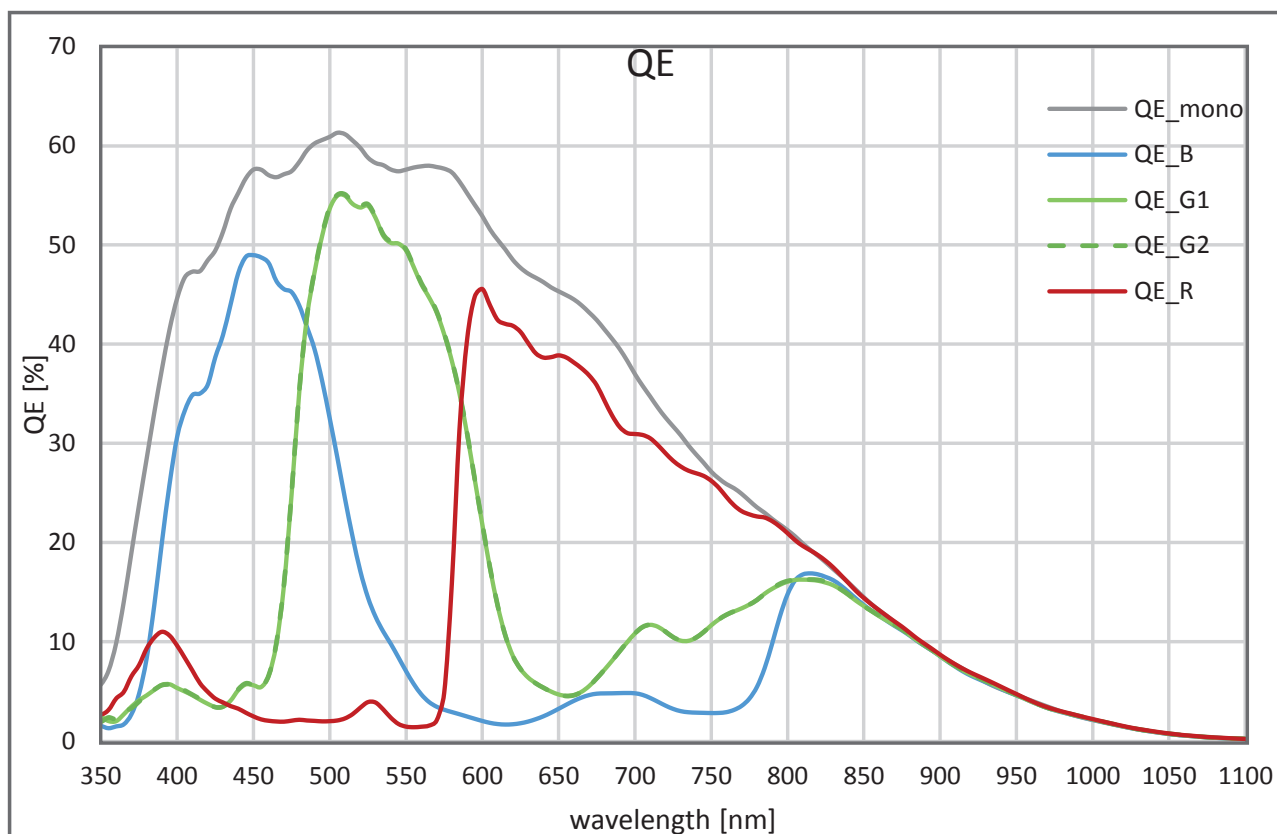
Specifications

Model		VP-50MX-M/C 30		
Resolution (H × V)		7920 × 6004		
Sensor		AMS CMOSIS CMV 50000		
Sensor Size (Optical Diagonal)		35 mm (45.72 mm)		
Sensor Type		High Speed CMOS Image Sensor		
Pixel Size		4.6 μm × 4.6 μm		
Interface		CoaXPress		
Max. Frame Rate		1CH: 7.7 fps @ 6.25 Gbps	2CH: 15.5 fps @ 6.25 Gbps	4CH: 30.9 fps @ 6.25 Gbps
Exposure Time (1 μs step)		1 μs – 60 s		
Partial Scan (Max. Speed)		3968 fps at 4 Lines		
Pixel Data Format	Mono	Mono 8 / Mono 10 / Mono 12		
	Color	BG Bayer 8 / BG Bayer 10 / BG Bayer 12		
Electronic Shutter		Global Shutter		
Exposure Mode		Free-Run, Timed and Trigger Width		
Dynamic Range		64 dB		
Gain Control		1 × ~ 30 × (1/1024 step)		
Black Level Control		0 ~ 256 LSB at 12 bit (1 LSB step)		
Cooling Method		Thermoelectric Peltier Cooling		
Cooling Performance		12°C below ambient temperature – Standard cooling with a fan		
Dimension / Weight		90 mm × 90 mm × 146 mm, 1,400 g		
Temperature		Operating: -5°C ~ 40°C, Storage: -40°C ~ 70°C		
Vibration / Shock		3G (20 ~ 200 Hz) XYZ / 10G 6 ms		
Lens Mount		F-mount, Custom mount available upon request		
Power	External	10 ~ 24 V DC, Typ. 24.0 W		
	PoCXP	Not supported		
Compliance		CE, FCC, KC		
API SDK		Viewworks Imaging Solution 7.X		

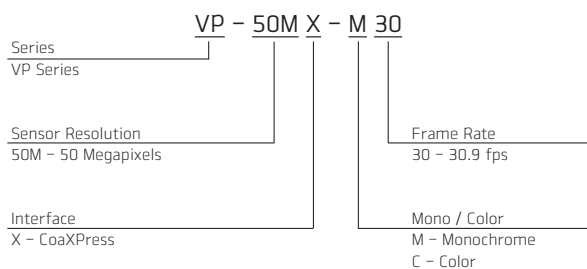
VP-50MX

50 MEGAPIXEL THERMOELECTRIC PELTIER COOLED CAMERA

Quantum Efficiency Curves



Ordering Scheme



Connector Specification

Power



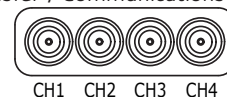
1 2 3: +12V DC, 4 5 6: GND
(HR10A-7R-6PB)

Control



1: Trigger IN+, 2: Trigger IN-
3: Strobe Out-(GND), 4: Strobe OUT+
(HR10A-7R-4S)

Data Transfer / Communications



CH1: Master Connection
(75 Ω , DIN 1.0/2.3)

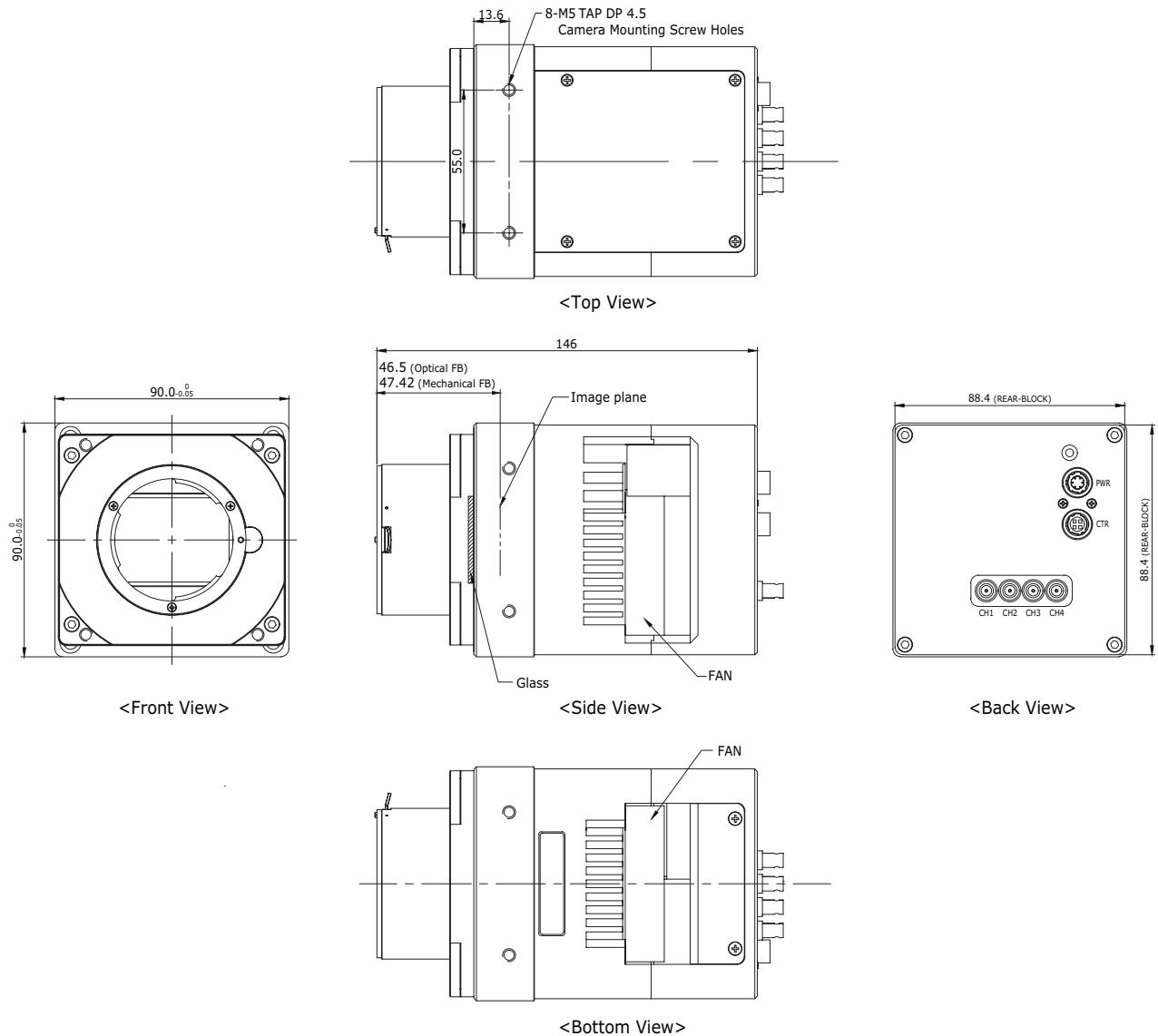
Connectors on camera body

VP-50MX

50 MEGA PIXEL THERMOELECTRIC PELTIER COOLED CAMERA

Mechanical Dimensions

Unit: mm



For more information please contact local distributor or visit our website at <http://www.viewworks.com>.

Reproduction in whole or in part without written permission is prohibited. Viewworks Co., Ltd. is not responsible for any technical or typographical errors and reserves the right to make changes to products, specifications and documentation without prior notice.

D-17-715

VIEWWORKS

41-3, Burim-ro 170 beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14055 Republic of Korea
tel +82-70-7011-6161 fax +82-31-386-8631 e-mail sales@viewworks.com

VP-65MX-M/C 31 I

65 Megapixel Thermoelectric Peltier Cooled Camera



CoaXPress®

The VP-65MX-31 I, the latest model of the industrial proven VP series, is a new 65 megapixel CoaXPress camera featuring the latest CMOS image sensor technology (GMAX3265) from Gpixel. The VP-65MX-31 I offers up to 31.6 frames per second at 9344 × 7000 resolution. This camera uses thermo-electric Peltier (TEC) cooling technology developed for and used by many demanding medical market customers. The TEC maintains the operating temperature of the CMOS image sensor at up to 15 degrees below ambient temperature. This camera provides a stable operating condition and the ability to expose for a long period of time to increase camera sensitivity. Featured with the stable operating capability and high resolution, this camera is ideal for demanding applications such as FPD, PCB and semiconductor inspections.

VIEWWORKS

www.viewworks.com

VP-65MX-M/C 31 I

65 Megapixel Thermoelectric Peltier Cooled Camera

Main Features

- Thermoelectric Peltier Cooled – 15°C below
- 65 Megapixel Resolution
- CoaXPress Interface up to 31.6 fps at 25 Gbps using 4 CH
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Flat Field Correction
- Defective Pixel Correction
- GenICam Compatible – XML based Control

Applications

- Flat Panel Display Inspection
- Electronics Inspection
- Semiconductor Inspection
- Document / Film Scanning

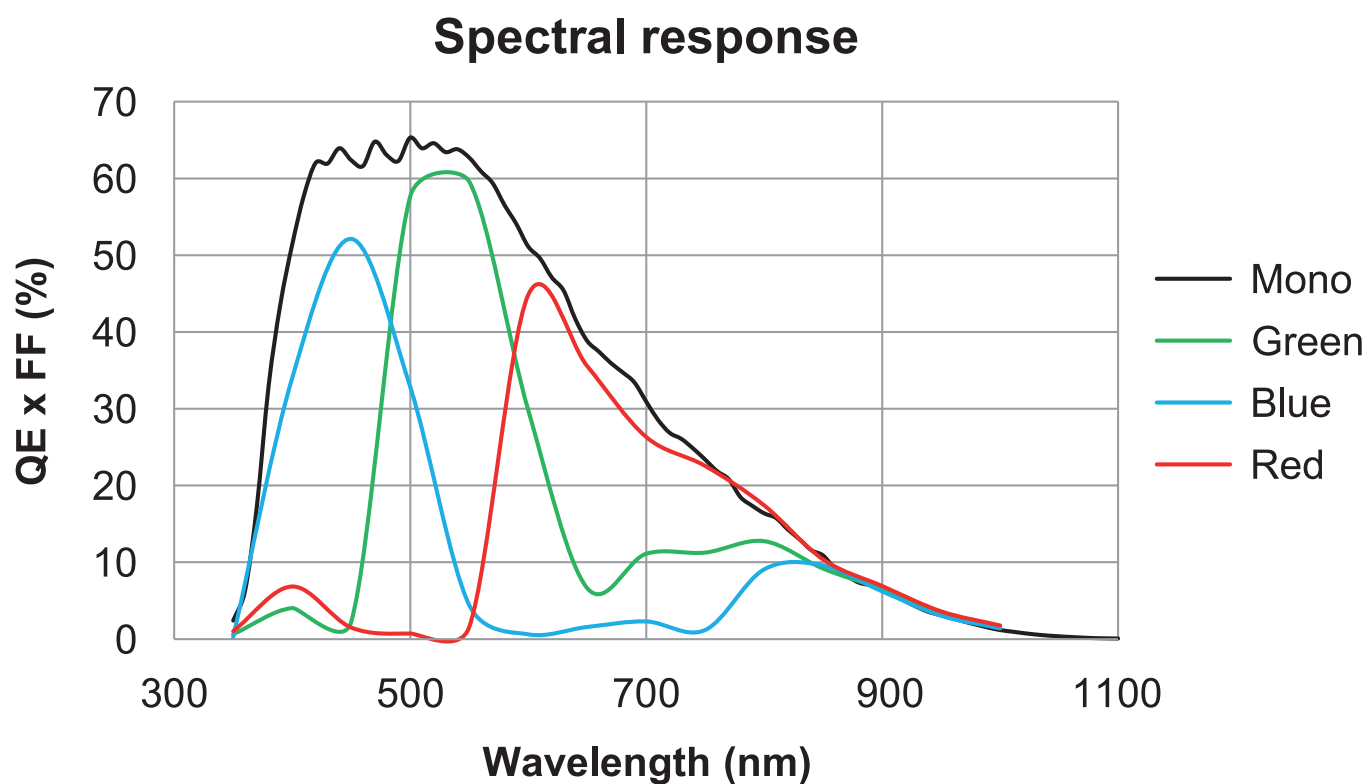
Specifications

Model		VP-65MX-M/C 31 I
Resolution (H × V)		9344 × 7000
Sensor		Gpixel GMAX3265 – Normal Speed
Sensor Size (Diagonal)		29.9 mm × 22.4 mm (37.4 mm)
Pixel Size		3.2 μm × 3.2 μm
Interface		CoaXPress
Max. Frame Rate		4 CH: 31.6 fps @ 8 bit
		4 CH: 27.3 fps @ 10 bit
		4 CH: 24.1 fps @ 12 bit
		4 CH: 31.6 fps @ 8 bit 2 × 2 Binning
Exposure Time (1 μs step)		14 μs – 60 s
Partial Scan (Max. Speed)		6349.2 fps at 4 Lines
Binning		2 × 2 Binning
Pixel Data Format	Mono	Mono 8 / Mono 10 / Mono 12
	Color	GB Bayer 8 / GB Bayer 10 / GB Bayer 12
Electronic Shutter		Global Shutter
Trigger Synchronization		Free-Run, Hardware Trigger, Software Trigger or CXP
External Trigger		3.3 V ~ 24.0 V, 10 mA, Logical Level Input, Optically Isolated
Software Trigger		Asynchronous, Programmable via Camera API
Dynamic Range		66 dB @ 12 bit
Gain Control		1 × ~ 32 ×
Black Level Control		0 ~ 255 LSB at 12 bit
Cooling Method		Thermoelectric Peltier Cooling
Cooling Performance		15°C below ambient temperature – Standard cooling with a fan
Dimension / Weight		90 mm × 90 mm × 145 mm, 1,500 g (with F-mount)
Temperature		Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C
Lens Mount		F-mount, Custom mount available upon request
Power	External	11 ~ 24 V DC
	Dissipation	Typ. 26.0 W
Compliance		CE, FCC, KC (in preparation)
API SDK		Viewworks Imaging Solution 7.X

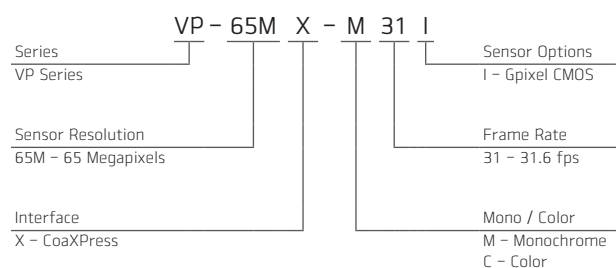
VP-65MX-M/C 31 I

65 Megapixel Thermoelectric Peltier Cooled Camera

Spectral Response



Ordering Scheme



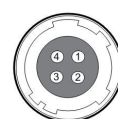
Connector Specification

Power



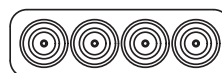
1, 2, 3: +12V DC
4, 5, 6: GND
(HR10A-7R-6PB)

Control



1: Trigger IN+
2: Trigger IN-
3: Strobe Out-(GND)
4: Strobe Out+
(HR10A-7R-4S)

Data Transfer / Communications



CH1: Master Connection
75 Ω , DIN 1.0/2.3

CH1 CH2 CH3 CH4

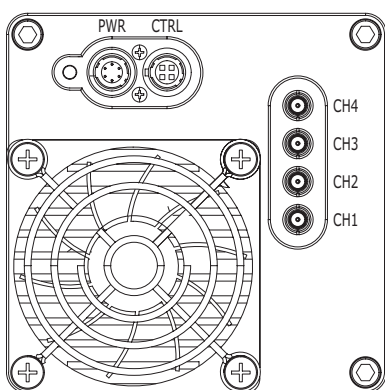
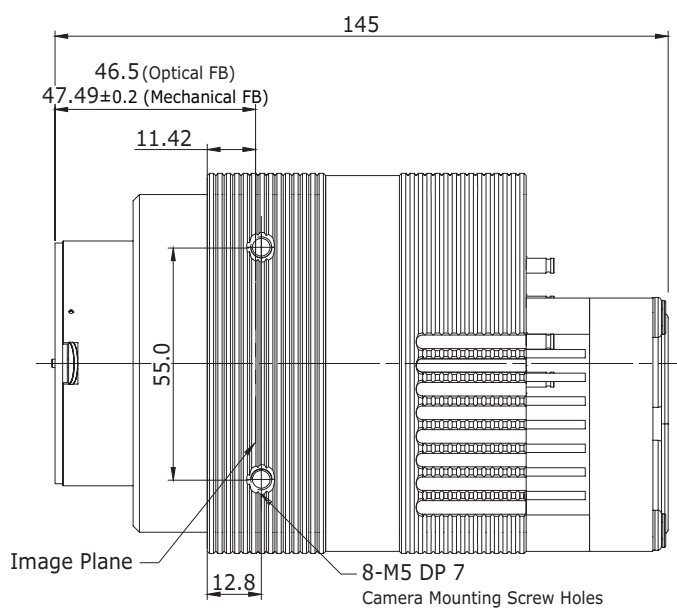
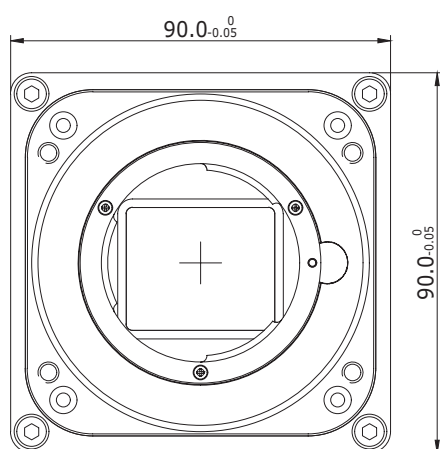
Connectors on camera body

VP-65MX-M/C 31 I

65 Megapixel Thermoelectric Peltier Cooled Camera

Mechanical Dimensions

Unit: mm



VP-71MC-M/C 4

71 MEGAPIXEL RESOLUTION CMOS CAMERA
WITH TEC INTEGRATED



The VP-71MC, the latest member of the industrial proven VP series, is a new 71 megapixel resolution CMOS camera with Camera Link interface. The VP-71MC uses the latest 71 megapixel CMOS imaging sensor (CHR 70M) technology from CMOSIS, and offers a frame rate of 4 fps at full resolution.

This camera uses thermo-electric Peltier (TEC) cooling technology developed for, and used by, many demanding medical market customers. The TEC maintains the operating temperature of the CMOS imaging sensor at up to 20 degrees below ambient temperature. This camera provide a stable operating condition or the ability to expose for a long period of time to increase camera sensitivity. Featured with the stable operating capability and high resolution, this camera is ideal for demanding applications such as FPD, PCB, and semiconductor inspections.

VIEWWORKS

VP-71MC-4

71 megapixel resolution CMOS camera with TEC integrated

Main Features

- * Thermoelectric Peltier Cooled – 20°C below ambient temperature
- * 71 Megapixel Resolution CMOS Imaging Sensor
- * Camera Link Medium Interface up to 4.2 fps
- * Minimizing the Number of Hot Pixels with TEC (up to 99%)
- * Flat Field Correction
- * Pixel Defect Correction
- * Non-uniformity Correction (DSNU and PRNU)
- * Field Upgradable Firmware

Applications

- * FPD, Electronics and Semiconductor Inspection
- * Research and Scientific Imaging
- * Document / Film Scanning

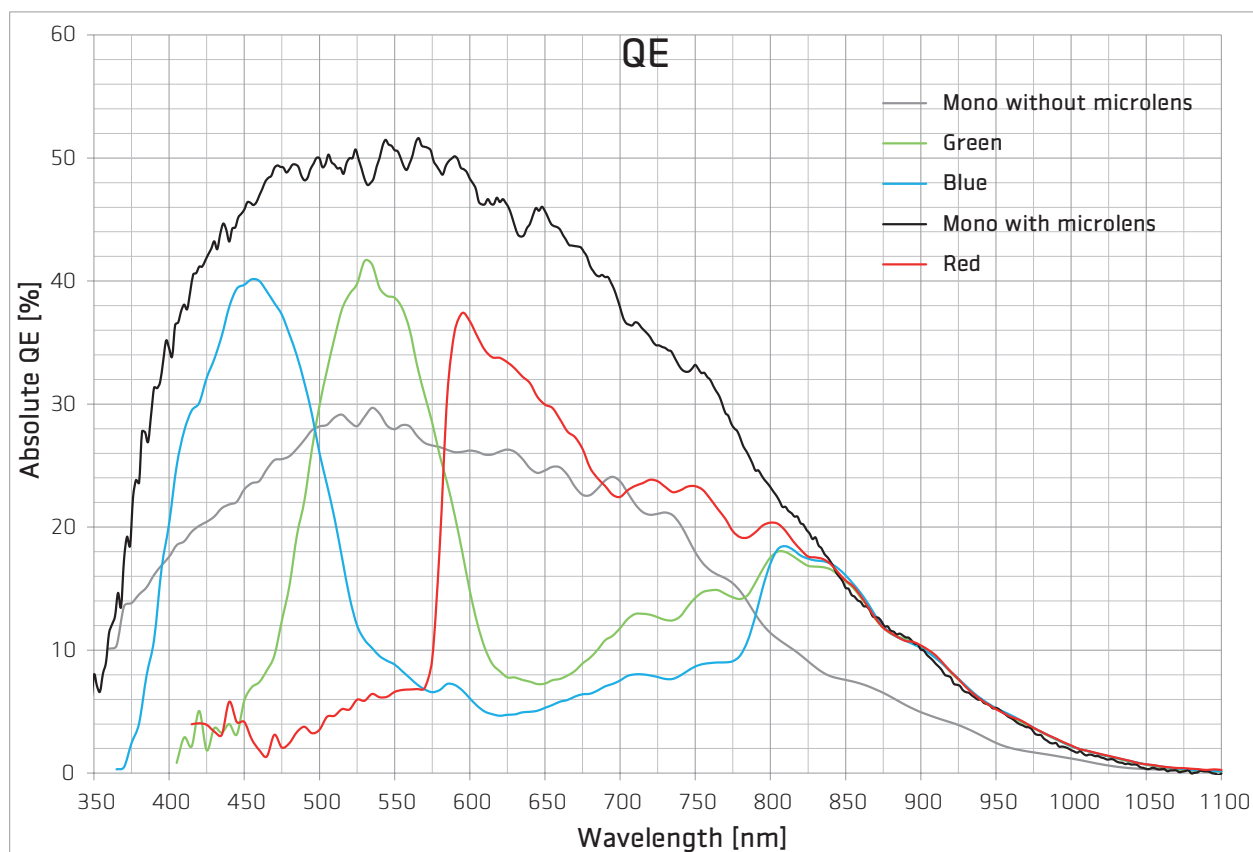
Specifications

Model		VP-71MC-M/C 4
Resolution (H × V)		10000 × 7096
Sensor		CMOSIS CHR70M
Sensor Size (Optical Format)		31.00 mm × 24.11 mm (38 mm)
Sensor Type		High Resolution CMOS Imaging Sensor
Pixel Size		3.1 μm × 3.1 μm
Interface	2 Tap	Camera Link Base
	4 Tap – Normal	Camera Link Medium
	4 Tap – High	
Max. Frame Rate		2.1 fps (CL Base)
		2.9 fps (CL Medium)
		4.2 fps (CL Medium / Overclocked)
Transfer Time		476 ms (CL Base)
		335 ms (CL Medium)
		238 ms (CL Medium / Overclocked)
Exposure Time		66 μs ~ 7 s (1 line step)
Pixel Data Format		8 / 10 / 12 bit
Electronic Shutter		Rolling Shutter
Data Output	2 Tap	85 MHz
Pixel Clock Speed	4 Tap	Normal: 60 MHz / High: 85 MHz
Trigger Mode		Free-Run, External Trigger
		Programmable Exposure Time and Trigger Polarity
Dynamic Range		63 dB
Cooling Method		Thermoelectric Peltier Cooling
Cooling Performance		About 20 below ambient temperature – Standard Cooling with a Fan
Dimension / Weight		90 mm × 90 mm × 137 mm, 1500 g (F-mount)
Temperature		Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C
Lens Mount		F-mount, Custom mount available upon request
Power		10 ~ 24 V DC, Typ. 20.0 W
Compliance		CE, FCC, KC
Configuration Software		Configurator

VP-71MC-4

71 megapixel resolution CMOS camera with TEC integrated

Quantum Efficiency Curves



Ordering Scheme

VP - 71M C - M 4 E0	
Series	Sensor Options
VP Series	E0 - CMOSIS
Sensor Resolution	Frame Rate
71M - 71 Megapixels	4 - 4.2 fps
Interface	Mono / Color
C - Camera Link	M - Monochrome
	C - Color

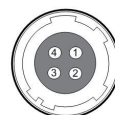
Connector Specification

Power



1 2 3: +12V DC, 4 5 6: GND
(HR10A-7R-6PB)

Control



1: Trigger IN+, 2: Trigger IN-
3: DC Ground, 4: Strobe OUT+
(HR10A-7R-4S)

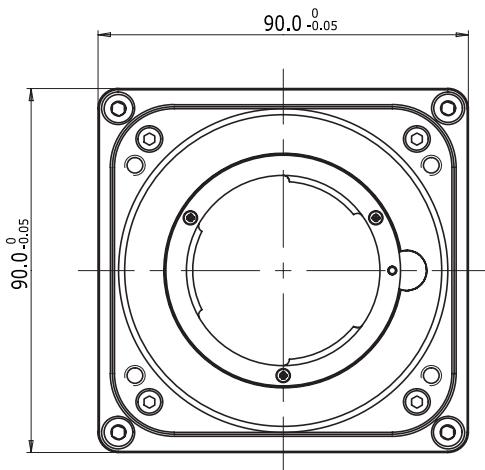
Connectors on camera body

VP-71MC-4

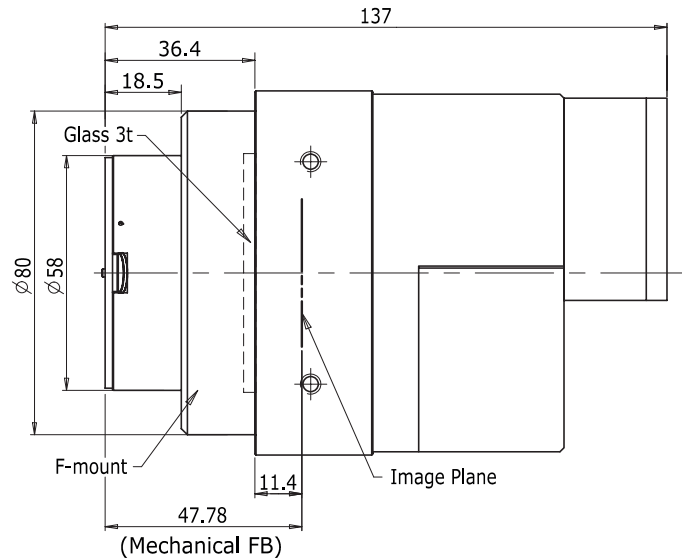
71 megapixel resolution CMOS camera with TEC integrated

Mechanical Dimensions

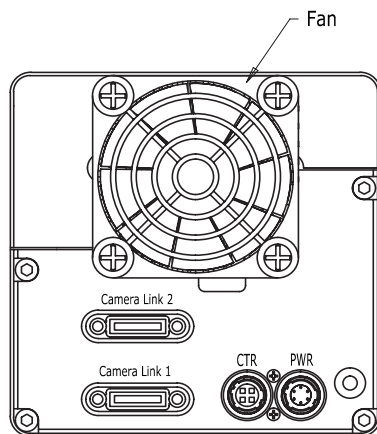
Unit: mm



<Front View>

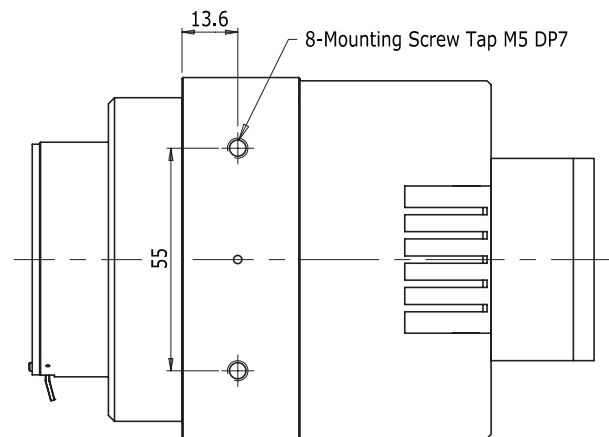


<Side View>



<Back View>

For more information please contact local distributor or visit our website at <http://www.viewworks.com>.



Reproduction in whole or in part without written permission is prohibited. Viewworks Co., Ltd. is not responsible for any technical or typographical errors and reserves the right to make changes to products, specifications and documentation without prior notice.

VW40-162-004

VIEWWORKS

41-3, Burim-ro 170 beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14055 Republic of Korea
tel +82-70-7011-6161 fax +82-31-386-8631 e-mail sales@viewworks.com

VP-101MC-M/C 8 H VP-151MC-M/C 5 H

High Resolution Thermoelectric Peltier Cooled Camera



The VP-101MC and VP-151MC, the latest models of the industrial proven VP series, are 101 and 151 megapixel resolution CMOS cameras available with the Camera Link interface. These cameras are based on the latest CMOS image sensor technology (IMX461 and IMX411) from Sony Semiconductor Solutions Corporation. The VP-101MC-8 offers up to 8.1 frames per second at 11648×8742 resolution. For even higher resolution applications, the VP-151MC-5 offers up to 5.5 frames per second at 14192×10640 resolution. These cameras use thermo-electric Peltier (TEC) cooling technology developed for and used by many demanding medical market customers. The TEC maintains the operating temperature of the CMOS image sensor at up to 15 degrees below ambient temperature. These cameras provide a stable operating condition and the ability to expose for a long period of time to increase camera sensitivity. Featured with the stable operating capability and high resolution, these cameras are ideal for demanding applications such as FPD, PCB and semiconductor inspections.

VIEWORKS

www.vieworks.com

VP-101MC-8 H / VP-151MC-5 H

High Resolution Thermoelectric Peltier Cooled Camera

Main Features

- Thermoelectric Peltier Cooled – 15°C below
- 101 or 151 Megapixel Resolution
- Camera Link Full Interface
- Electronic Rolling Shutter
- DSNU and PRNU Correction
- Flat Field Correction with Sequencer Control
- Hot Pixel Correction
- Dynamic Defective Pixel Correction
- 4 Gb Frame Buffer for Burst Readout Mode

Applications

- Flat Panel Display Inspection
- Electronics Inspection
- Semiconductor Inspection
- Document / Film Scanning

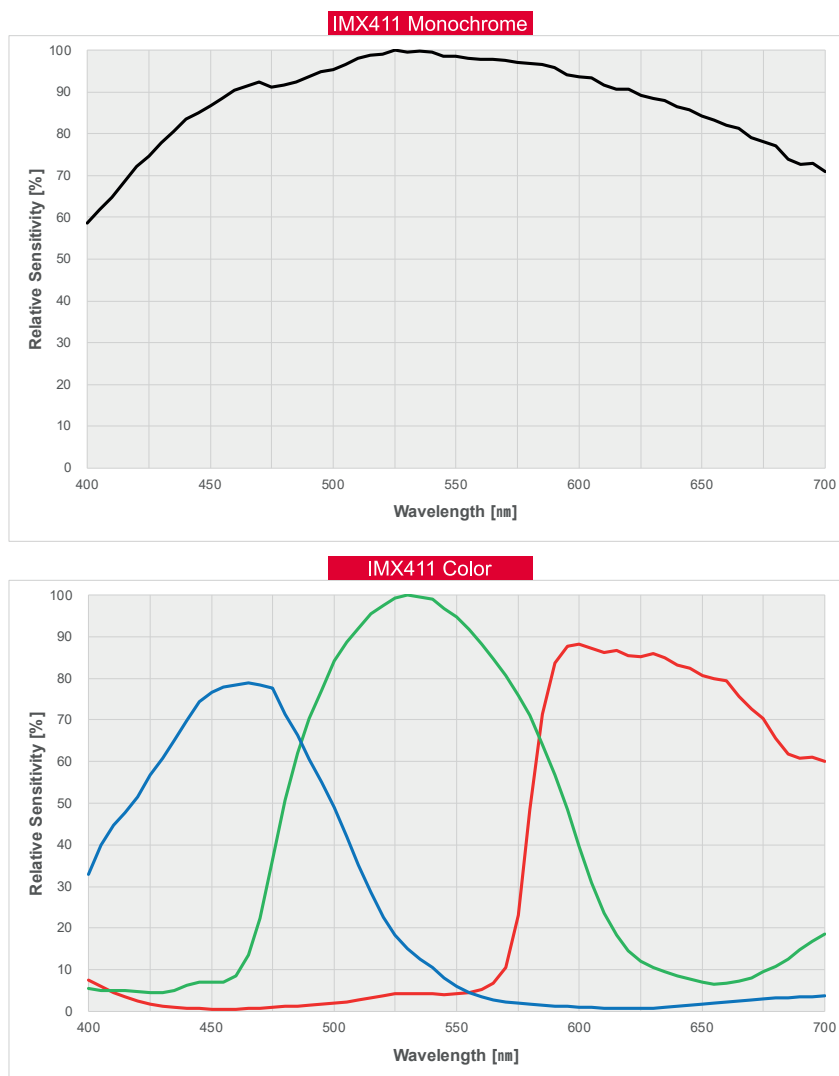
Specifications

Model		VP-101MC-M/C 8 H	VP-151MC-M/C 5 H
Resolution (H × V)		11648 × 8742	14192 × 10640
Sensor		SONY IMX461	SONY IMX411
Sensor Size (Diagonal)		43.80 mm × 32.87 mm (55 mm)	53.36 mm × 40.01 mm (66.7 mm)
Pixel Size		3.76 μm × 3.76 μm	3.76 μm × 3.76 μm
Interface		Camera Link Base / Medium / Full / 10 Tap, 26-pin SDR Connector	
Max. Frame Rate		8.1 fps (with Overlapped Acquisition)	5.5 fps (with Overlapped Acquisition)
Camera Image Memory		4 Gb	
Exposure Time (1 μs step)		1 μs – 60 s	
Pixel Data Format		8 / 10 / 12 bit	
Data Output Pixel Clock Speed		85 MHz / 65 MHz	
Electronic Shutter		Rolling Shutter	
Trigger Synchronization	Overlapped Acquisition	Free-Run	
	Non-overlapped Acquisition	Hardware Trigger or CC1	
Dynamic Range		78 dB	
Gain Control		1 × ~ 32 ×	
Black Level Control		0 ~ 255 LSB at 12 bit	
Cooling Method		Thermoelectric Peltier Cooling	
Cooling Performance		15 below ambient temperature – Standard cooling with a fan	
Dimension / Weight		100 mm × 100 mm × 88 mm, 1.1 kg (with M-72 mount)	110 mm × 110 mm × 88 mm, 1.4 kg (with M-72 mount)
Temperature		Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C	
Lens Mount		M72-mount, Custom mount available upon request	
Power	External	11 ~ 24 V DC	
	Dissipation	Typ. 26.0 W	
Compliance		CE, FCC, KC	
API SDK		Viewworks Imaging Solution 7.X	

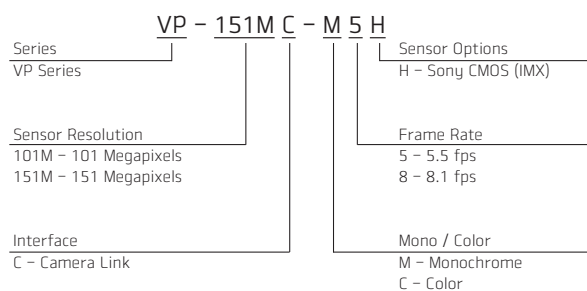
VP-101MC-8 H / VP-151MC-5 H

High Resolution Thermoelectric Peltier Cooled Camera

Relative Sensitivity Curves

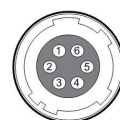


Ordering Scheme



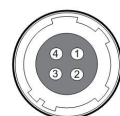
Connector Specification

Power



1 2 3: +12V DC, 4 5 6: GND
(HR10A-7R-6PB)

Control



1: Trigger IN+, 2: Trigger IN-
3: Strobe Out-(GND), 4: Strobe OUT+
(HR10A-7R-4S)

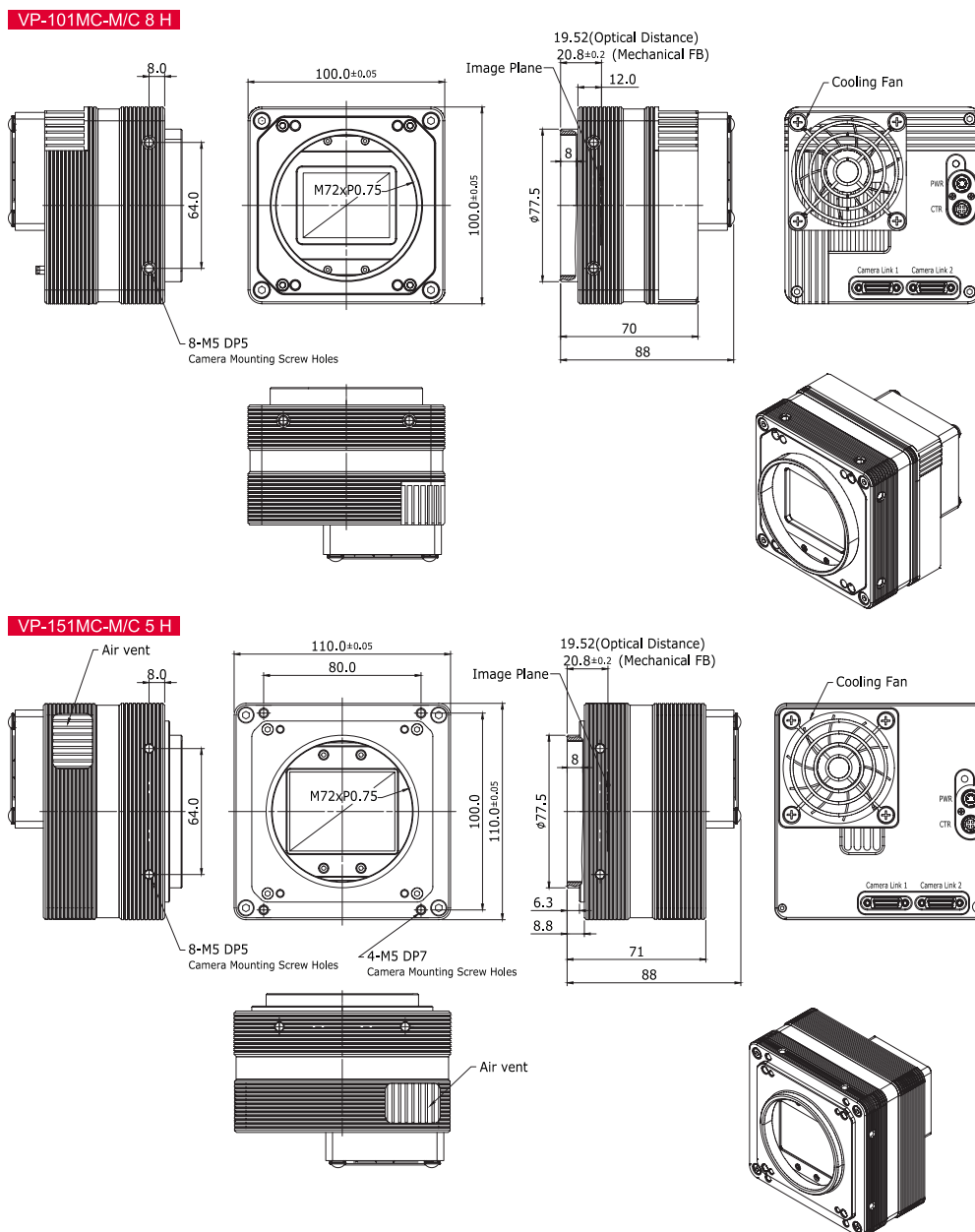
Connectors on camera body

VP-101MC-8 H / VP-151MC-5 H

High Resolution Thermoelectric Peltier Cooled Camera

Mechanical Dimensions

Unit: mm



VP-101MX-M/C 9 H VP-151MX-M/C 6 H

High Resolution Thermoelectric Peltier Cooled Camera



The VP-101MX and VP-151MX, the latest models of the industrial proven VP series, are equipped with the CoaxPress interface and based on the latest CMOS image sensor technology (IMX461 and IMX411) from Sony Semiconductor Solutions Corporation. The VP-101MX-9 offers up to 8.7 frames per second at 11648×8742 resolution. For even higher resolution applications, the VP-151MX-6 offers up to 6.2 frames per second at 14192×10640 resolution. These cameras use thermo-electric Peltier (TEC) cooling technology developed for and used by many demanding medical market customers. The TEC maintains the operating temperature of the CMOS image sensor at up to 15 degrees below ambient temperature. These cameras provide a stable operating condition and the ability to expose for a long period of time to increase camera sensitivity. Featured with the stable operating capability and high resolution, these cameras are ideal for demanding applications such as FPD, PCB and semiconductor inspections.

VIEWORKS

www.vieworks.com

VP-101MX-9 H / VP-151MX-6 H

High Resolution Thermoelectric Peltier Cooled Camera

Main Features

- Thermoelectric Peltier Cooled – 15°C below
- 101 or 151 Megapixel Resolution
- CoaXPress Interface
- Electronic Rolling Shutter
- DSNU and PRNU Correction
- Flat Field Correction with Sequencer Control
- Hot Pixel Correction
- Dynamic Defective Pixel Correction

Applications

- Flat Panel Display Inspection
- Electronics Inspection
- Semiconductor Inspection
- Document / Film Scanning

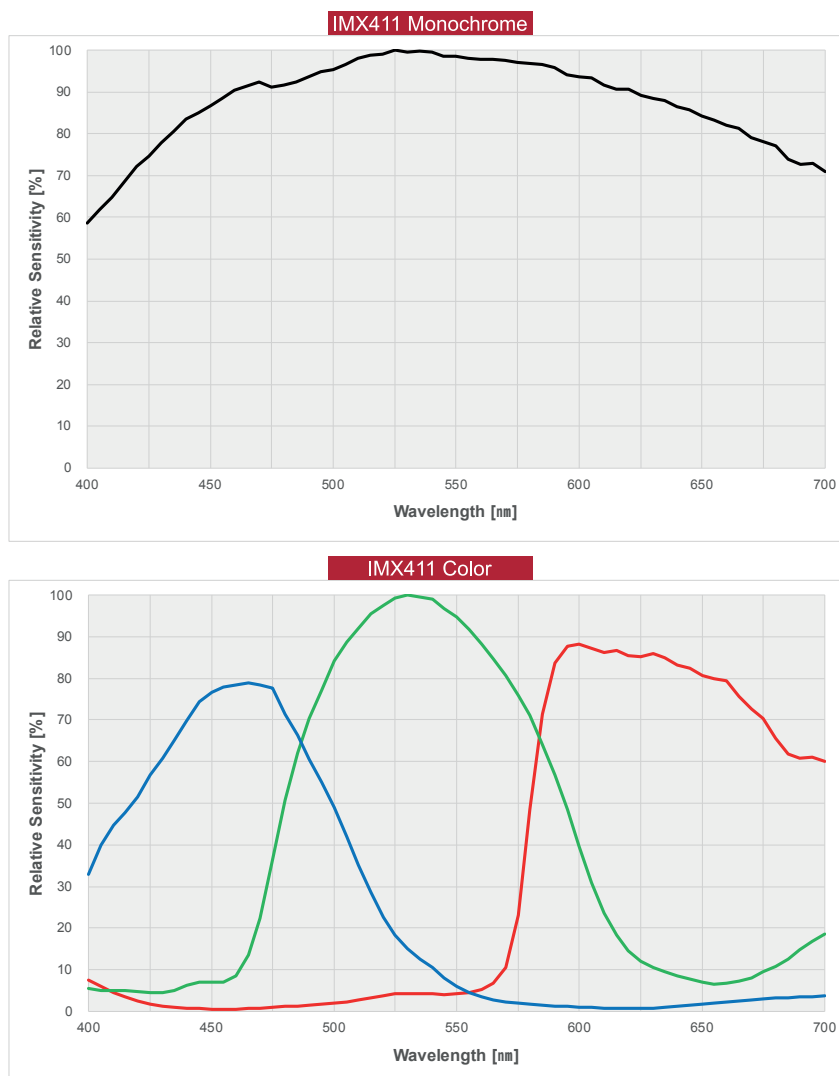
Specifications

Model		VP-101MX-M/C 9 H	VP-151MX-M/C 6 H
Resolution (H × V)		11648 × 8742	14192 × 10640
Sensor		SONY IMX461	SONY IMX411
Sensor Size (Diagonal)		43.80 mm × 32.87 mm (55 mm)	53.36 mm × 40.01 mm (66.7 mm)
Pixel Size		3.76 μm × 3.76 μm	3.76 μm × 3.76 μm
Interface		CoaXPress	
Max. Frame Rate		8.7 fps (with Overlapped Acquisition)	6.2 fps (with Overlapped Acquisition)
Exposure Time (1 μs step)		1 μs – 60 s	1 μs – 60 s
Pixel Data Format		8 / 10 / 12 bit	
Electronic Shutter		Rolling Shutter	
Trigger Synchronization	Overlapped Acquisition	Free-Run	
	Non-overlapped Acquisition	Hardware Trigger, Software Trigger or CXP	
Dynamic Range		78 dB	
Gain Control		1 × ~ 32 ×	
Black Level Control		0 ~ 255 LSB at 12 bit	
Cooling Method		Thermoelectric Peltier Cooling	
Cooling Performance		15 below ambient temperature – Standard cooling with a fan	
Dimension / Weight		100 mm × 100 mm × 88 mm, 1.1 kg (with M-72 mount)	110 mm × 110 mm × 85 mm, 1.4 kg (with M-72 mount)
Temperature		Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C	
Software Trigger		Asynchronous, Programmable via Camera API	
Lens Mount		M72-mount, Custom mount available upon request	
Power	External	11 ~ 24 V DC	
	Dissipation	Typ. 26.0 W	
Compliance		CE, FCC, KC	
API SDK		Vieworks Imaging Solution 7.X	

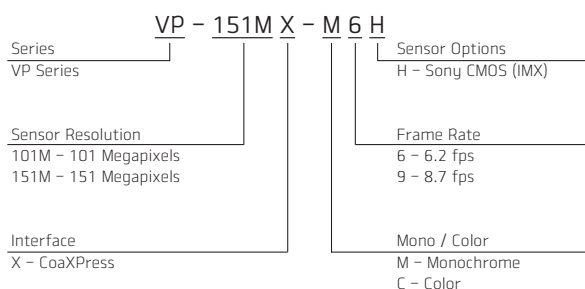
VP-101MX-9 H / VP-151MX-6 H

High Resolution Thermoelectric Peltier Cooled Camera

Relative Sensitivity Curves

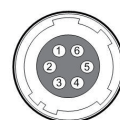


Ordering Scheme



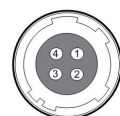
Connector Specification

Power



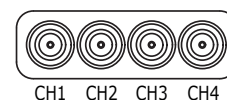
1 2 3: +12V DC, 4 5 6: GND
(HR10A-7R-6PB)

Control



1: Trigger IN+, 2: Trigger IN-
3: Strobe Out-(GND), 4: Strobe OUT+
(HR10A-7R-4S)

Data Transfer / Communications



CH1: Master Connection
(75 Ω , DIN 1.0/2.3)

Connectors on camera body

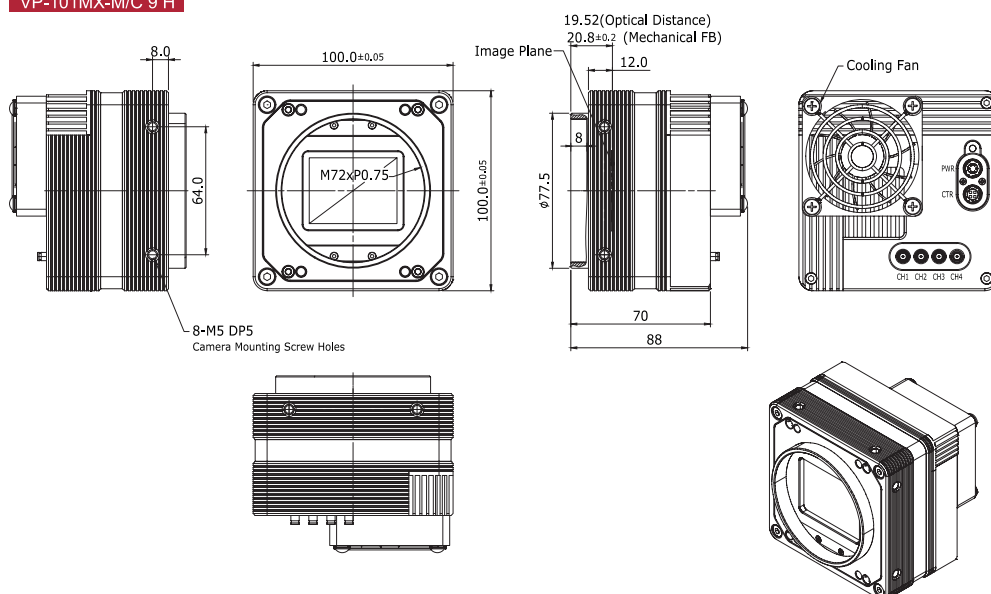
VP-101MX-9 H / VP-151MX-6 H

High Resolution Thermoelectric Peltier Cooled Camera

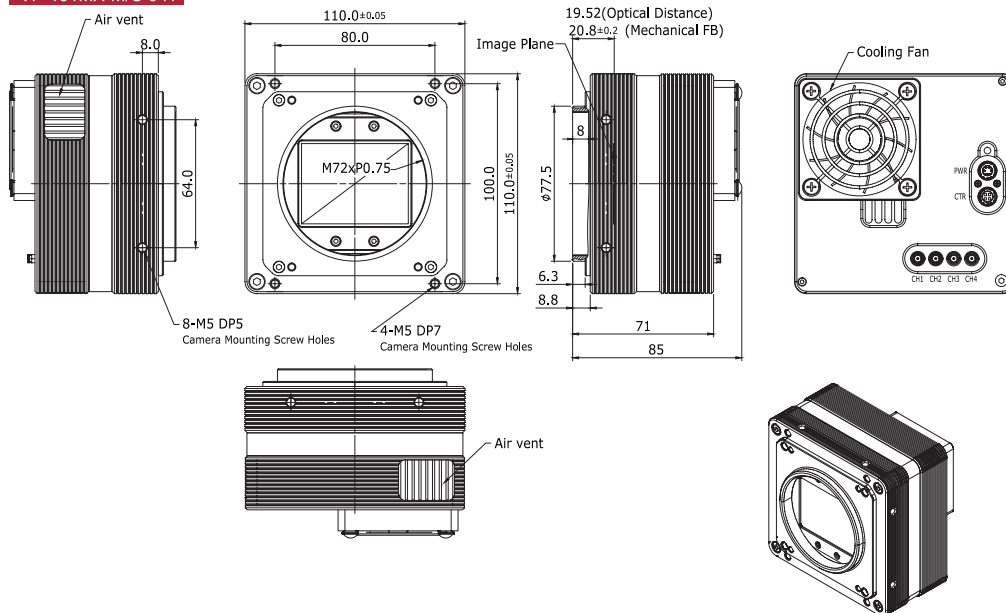
Mechanical Dimensions

Unit: mm

VP-101MX-M/C 9 H



VP-151MX-M/C 6 H



VP-29MC-M/C 5

Thermoelectric Peltier Cooled
High Speed Programmable Digital Camera



VP Series cameras are thermo – electric Peltier (TEC) cooled high performance digital cameras. These cameras use cooling technology developed for and used by many demanding medical market customers. The TEC maintains the operating temperature of the CCD at up to 20 degrees below ambient temperature. These cameras provide a stable operating condition and the ability to expose for a long period of time to increase camera sensitivity. These cameras are ideal for industrial applications such as FPD inspection and microscopy.

VIEWORKS

www.vieworks.com

VP-29MC-M/C 5

Thermoelectric Peltier Cooled – High Speed Programmable Digital Camera

Main Features

- Thermoelectric Peltier Cooled
- 20 degrees below ambient temperature
- Progressive Scan Interline Transfer CCD Imager
- Flat Field Correction
- Pixel Defect Correction
- Field Upgradable Firmware

Applications

- Flat Panel Display Inspection
- Research and Scientific Imaging
- Machine Vision Inspection
- Microscopy and Metrology

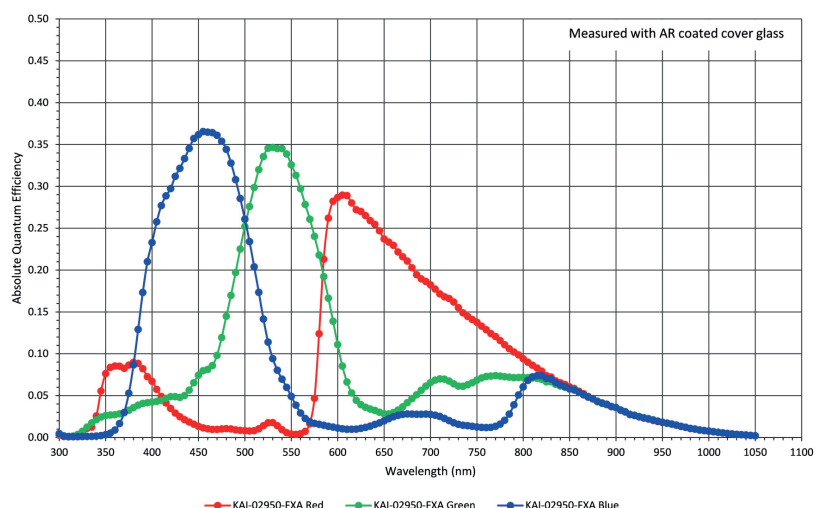
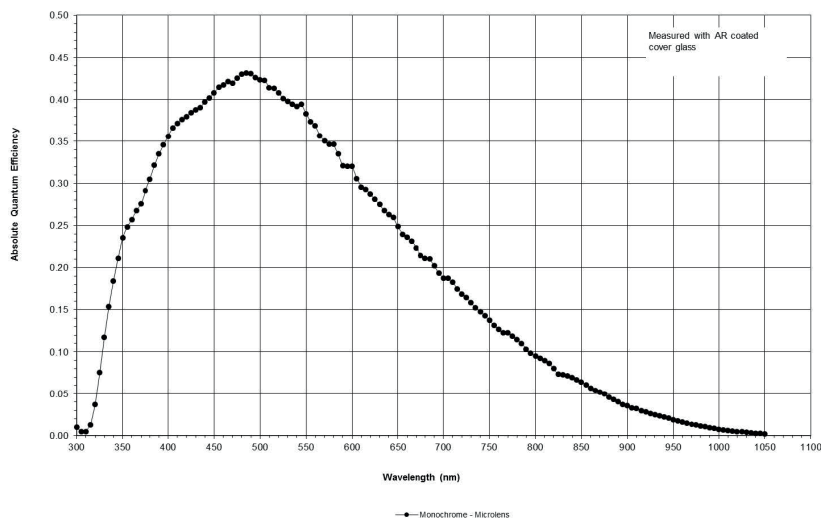
Specifications

Model	VP-29MC-M/C 5	
Resolution (H × V)	6576 × 4384	
Sensor (ON Semiconductor)	KAI-29050	
Sensor Size (Optical Format)	35 mm	
Sensor Type	Progressive Scan Interline Transfer CCD	
Pixel Size	5.5 μm × 5.5 μm	
Interface	Camera Link	
Max. Frame Rate (40 MHz)	4.8 fps	
Exposure Time (10 μs step)	1/100000 s – 7 s	
Partial Scan (Max. Speed)	15.2 fps at 1000 Lines	
Pixel Data Format	8 / 10 / 12 bit	
Electronic Shutter	Global Shutter	
Data Output Pixel Clock	40/80 MHz	
Trigger Mode	Free-Run, Overlap, Fast, Double – Programmable Exposure Time and Trigger Polarity	
Dynamic Range	62 dB	
Cooling Method	Thermoelectric Peltier Cooling	
Cooling Performance	20°C below ambient temperature	
	Standard cooling with a fan	
Dimension / Weight	90 mm × 90 mm × 142 mm, 1550 g (with F-mount)	
Temperature	Operating: -5°C ~ 40°C	Storage: -40°C ~ 70°C
Lens Mount	No mount or F-mount, Custom mount available upon request	
Power	10~14 V DC, Typ. 26 / Max. 30 W	
Compliance	CE, FCC, KC	
Configuration Software	Configurator	

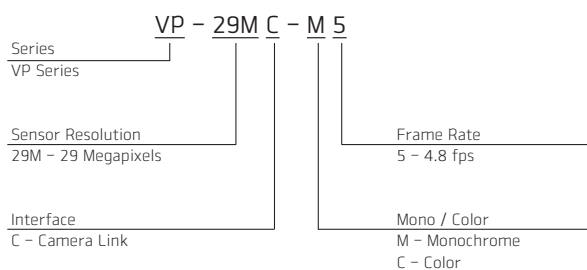
VP-29MC-M/C 5

Thermoelectric Peltier Cooled – High Speed Programmable Digital Camera

Quantum Efficiency Curves



Ordering Scheme



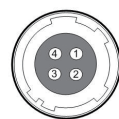
Connector Specification

Power



1, 2, 3: +12V DC
(HR10A-7R-6PB) 4, 5, 6: GND

Control



1: Trigger IN+ 2: Trigger IN-
3: Strobe OUT-(GND) 4: Strobe OUT+
(HR10A-7R-4S)

Connectors on camera body

VP-29MC-M/C 5

Thermoelectric Peltier Cooled – High Speed Programmable Digital Camera

Mechanical Dimensions

Unit: mm

