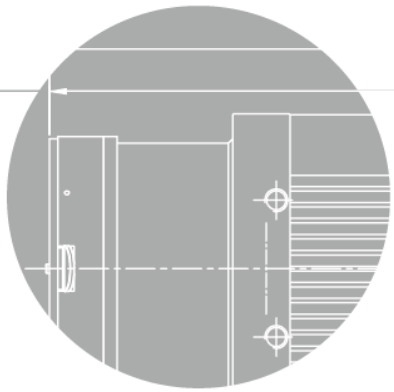
VC/VP-65MX-M/C35
VC/VP-65MX-M/C31

Specifications

Version: 1.0
Date: 2019-11-12



vieworks
Imaging Expert

Revision History

Version	Date	Description
1.0	2019-11-12	Draft

Contents

Contents **3**
Overview **4**
Main Features **4**
Applications **4**
Mechanical Dimension **7**
Specifications **5**

Overview

Vieworks is proud to present new 65 megapixel cameras as additions to its industrial proven VC,VP series. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, those camera offers not only highly uniformed images but also high speed image processing capabilities. Those camera supports 65 megapixel resolutions with frame rate up to 35.5/31 fps. Featured with high quality image uniformity and high resolution, these are ideal for demanding applications such as FPD, PCB, and semiconductor inspections.

Main Features

- High Speed 65 Megapixel CMOS Image Sensor
- 65 Megapixel Resolution
- Thermoelectric Peltier Cooling – about 15 degrees below ambient temperature
- Minimizing the number of hot pixels with TEC
- Electronic Exposure Time Control
- Output Pixel Format: 8 / 10 / 12 bit
- Strobe Output
- Output Channel: CXP × 4ch
- CoaXPress Interface up to 25 Gbps using 4 coax cables
- Gain / Black Level Control
- Temperature Monitor
- Field Upgrade
- DSNU and PRNU Correction
- Flat Field Correction with Sequencer Control
- Hot Pixel Correction
- Defective Pixel Correction
- GenICam Compatible – XML based Control

Applications

- FPD, Electronics and Semiconductor Inspection
- Research and Scientific Imaging
- Microscopy and Metrology

Specifications

Specifications		VC-65MX-M/C35
Resolution (H × V)		9344 × 7000
Sensor		GMAX3265(High Speed Version)
Sensor Type		CMOS Image Sensor
Sensor Size (Diagonal)		29.9 ㎜ × 22.4 ㎜ (37.36 ㎜)
Pixel size		3.2 ㎛ × 3.2 ㎛
Interface		CXP-6 4 Lanes
Electronic Shutter		Global Shutter
Max. Frame Rate	10bit	28.5fps
	8bit	35.5 fps (MAX 71 fps at 2x2binning)
Pixel Data Format		8 bit / 10 bit
Exposure Time		12 ㎲ ~ 60 s (1 ㎲ step)
Black Level Control		0 ~ 64 LSB at 10 bit
Gain Control		1× ~ 32×
Trigger Synchronization		Free-Run ,Hardware Trigger, Software Trigger or CXP
External Trigger		3.3 V ~ 24.0 V Logical level input, Optically isolated
Software Trigger		Asynchronous, Programmable via Camera API
Dynamic Range		60 ㏈@10bit
Lens Mount		F-mount
Cooling Method	VP Only	Thermoelectric Peltier Cooling
Cooling Performance		15 below ambient temperature / Standard cooling with a fan
Power	External	11 ~ 24 V DC
	PoCXP (VC Only)	24V DC, Minimum of two PoCXP cables required
	Dissipation	VC: Typ. 16 W (MAX 19W at 8bit, 71fps, 2x2binning) VP: Typ. 26 W
Environmental		Operating: 0 ~ 40℃, Storage: -40℃ ~ 70℃
Dimension / Weight		VC : 80×80×103 ㎜, 0.75 ㎏ VP : 90×90×140 ㎜, 1.4 ㎏
API SDK		Vieworks Imaging Solution 7.X

Table 1 Specifications

Specifications		VC-65MX-M/C31
Resolution (H × V)		9344 × 7000
Sensor		GMAX3265(Normal Speed Version)
Sensor Type		CMOS Image Sensor
Sensor Size (Diagonal)		29.9 ㎜ × 22.4 ㎜ (37.36 ㎜)
Pixel size		3.2 ㎛ × 3.2 ㎛
Interface		CXP-6 4 Lanes
Electronic Shutter		Global Shutter
Max. Frame Rate		31fps@8 bit
Pixel Data Format		8 bit / 10 bit / 12 bit
Exposure Time		12 ㎲ ~ 60 s (1 ㎲ step)
Black Level Control		0 ~ 255 LSB at 12 bit
Gain Control		1× ~ 32×
Trigger Synchronization		Free-Run ,Hardware Trigger, Software Trigger or CXP
External Trigger		3.3 V ~ 24.0 V Logical level input, Optically isolated
Software Trigger		Asynchronous, Programmable via Camera API
Dynamic Range		66 dB@12bit
Lens Mount		F-mount
Cooling Method	VP Only	Thermoelectric Peltier Cooling
Cooling Performance	VP Only	15 below ambient temperature / Standard cooling with a fan
Power	External	11 ~ 24 V DC
Power	PoCXP (VC Only)	24V DC, Minimum of two PoCXP cables required
Power	Dissipation	VC: Typ. 16 W VP: Typ. 26 W
Environmental		Operating: 0 ~ 40℃, Storage: -40℃ ~ 70℃
Dimension / Weight		VC : 80×80×103 ㎜, 0.75 kg VP : 90×90×140 ㎜, 1.4 kg
API SDK		Vieworks Imaging Solution 7.X

Table 2 Specifications

Mechanical Dimension

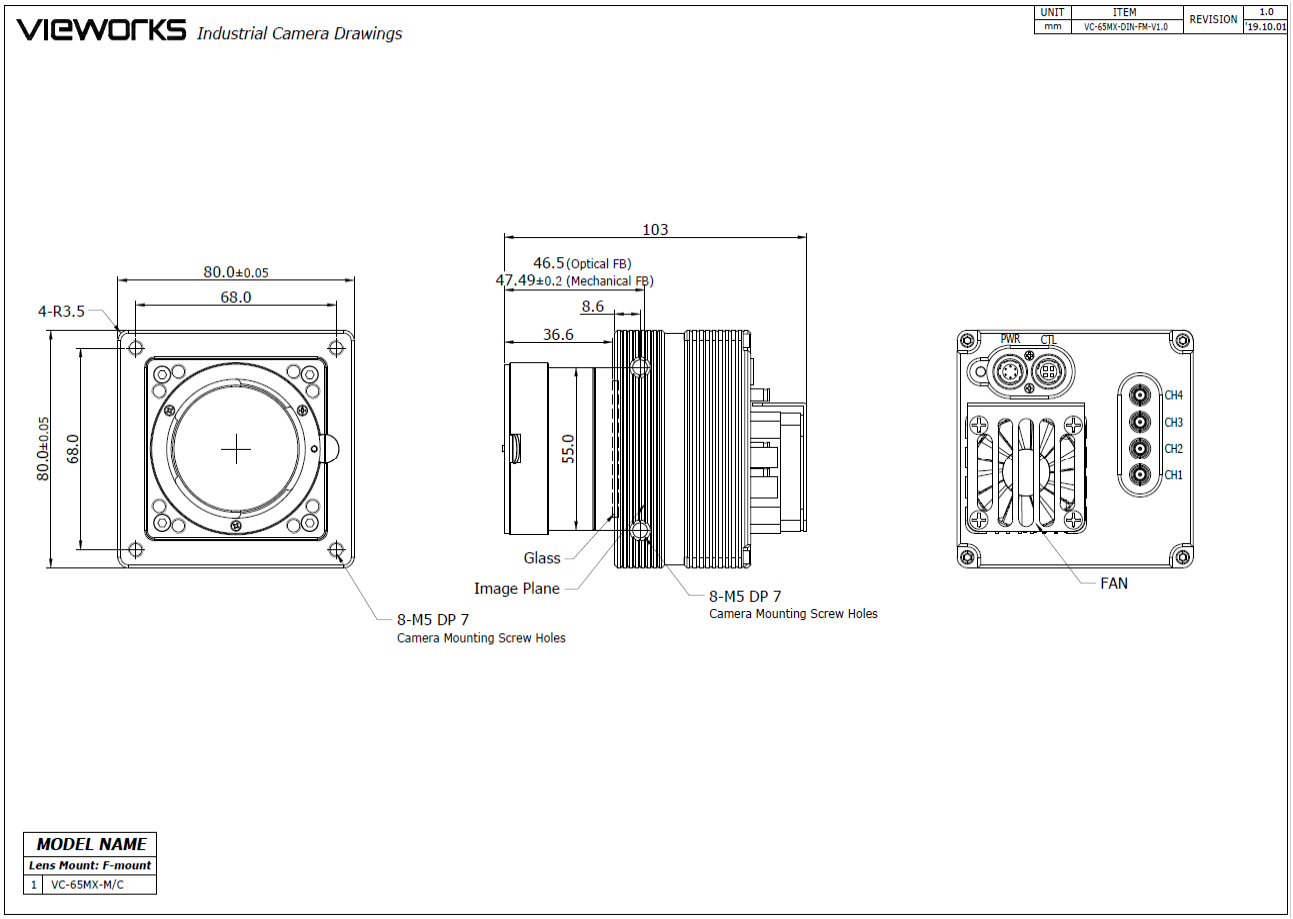


Figure 1 VC-65MX Mechanical Dimension with F mount

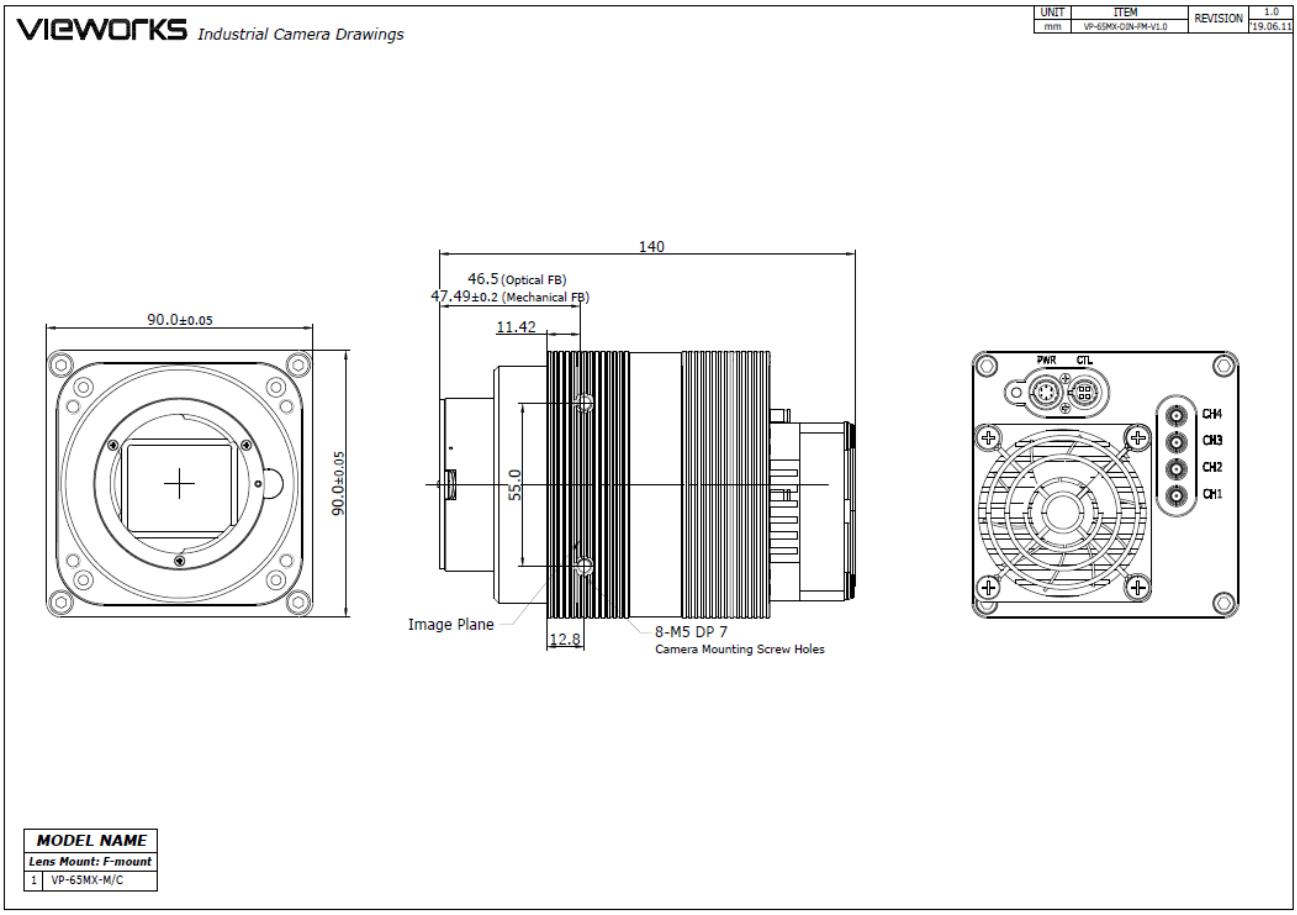
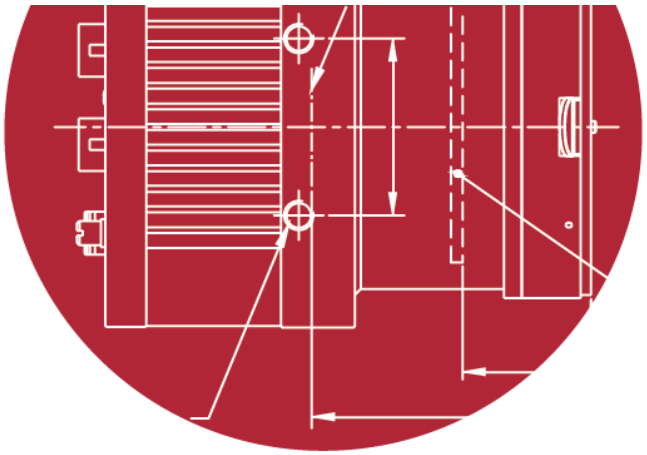
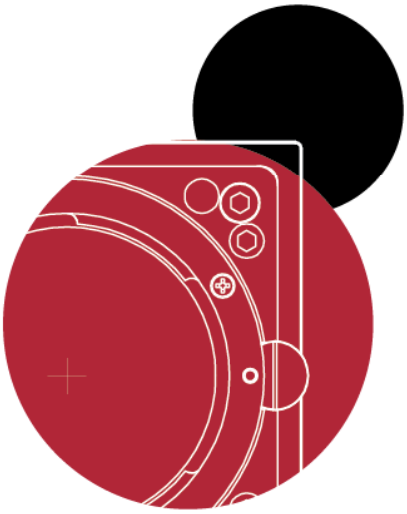
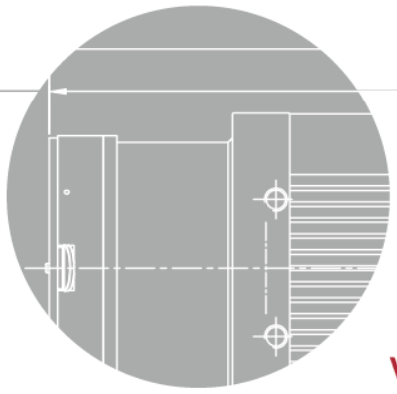


Figure 2 VP-65MX Mechanical Dimension with F mount







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