

VC-71MC-M/C 4

71 MEGAPIXELS

ULTRA HIGH RESOLUTION CMOS DIGITAL CAMERA



The VC-71MC, the latest member of the industrial proven VC series, is a new 71 megapixel resolution CMOS camera with Camera Link interface. The VC-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. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, the VC-71MC camera offers not only highly uniformed images but also high speed image processing capabilities. Featured with high quality image uniformity and high resolution, this camera is ideal for demanding applications such as FPD, PCB, and semiconductor inspections.

VC-71MC-4

71 MEGAPIXELS – ULTRA HIGH RESOLUTION CMOS DIGITAL CAMERA

Main Features

- * 71 Megapixel Resolution
- * Ultra High Resolution CMOS Imaging Sensor
- * Camera Link Medium Interface up to 4.2 fps
- * Rolling Shutter
- * 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

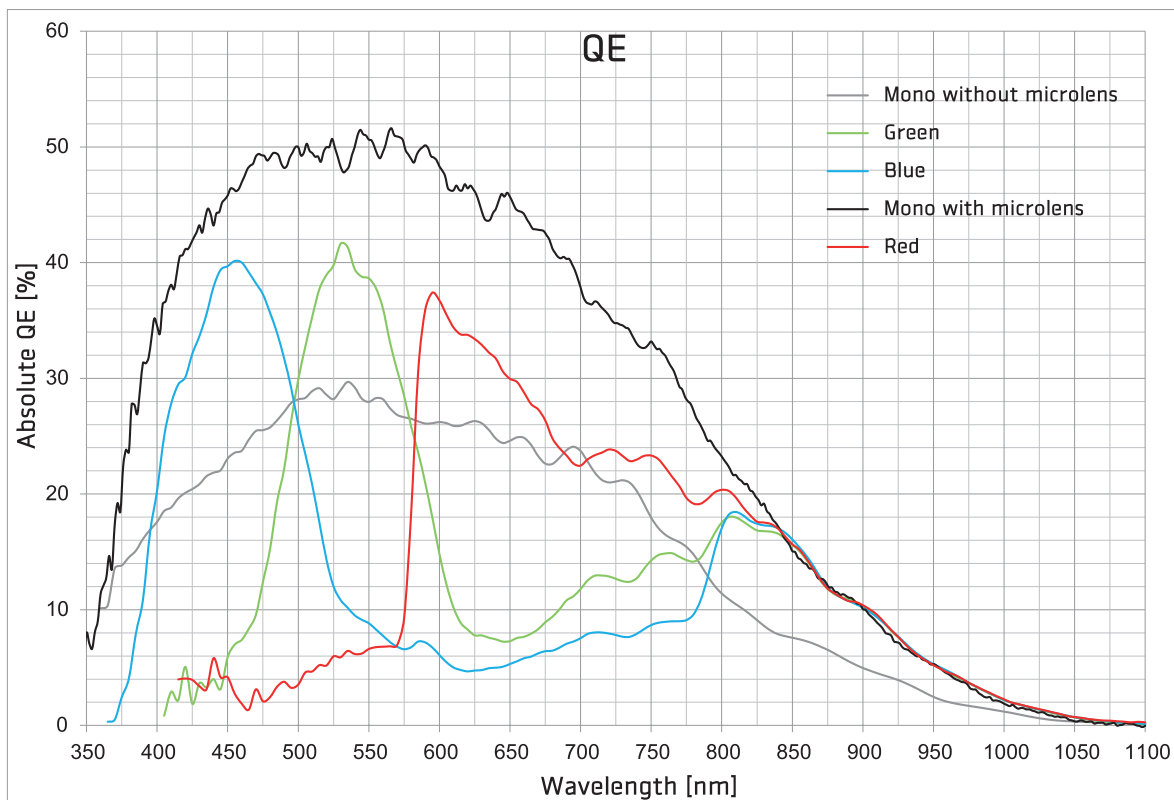
Specifications

Model		VC-71MC-M/C 4
Resolution (H × V)		10000 × 7096
Sensor		CMOSIS CHR70M
Sensor Size (Optical Format)		31.00 mm × 22.00 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)
		3.0 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
Dimension / Weight		68 mm × 68 mm × 103 mm, 420 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 ~ 38 V DC, Typ. 7.5 W
Compliance		CE, FCC, KC (in preparation)
Configuration Software		Configurator

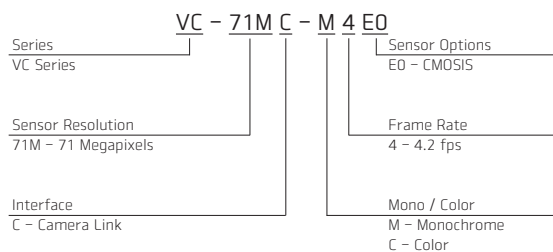
VC-71MC-4

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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: DC Ground, 4: Strobe OUT+
(HR10A-7R-4S)

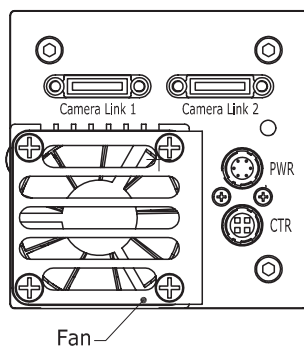
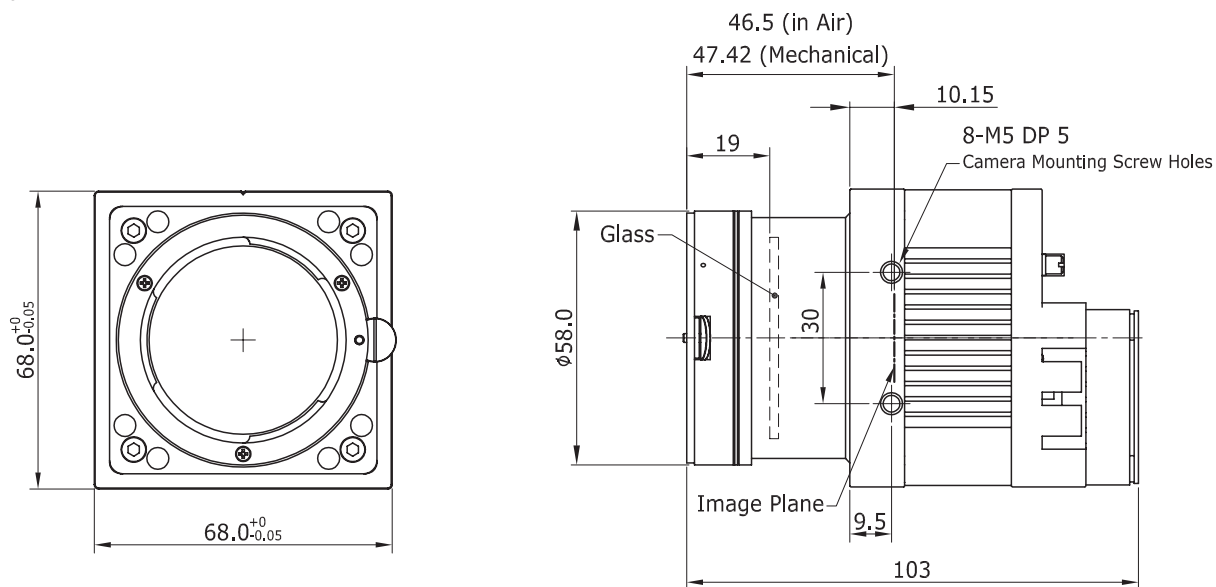
Connectors on camera body

VC-50MC

50 MEGAPIXEL CMOS DIGITAL CAMERA WITH CAMERA LINK INTERFACE

Mechanical Dimensions

Unit: mm



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