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.



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

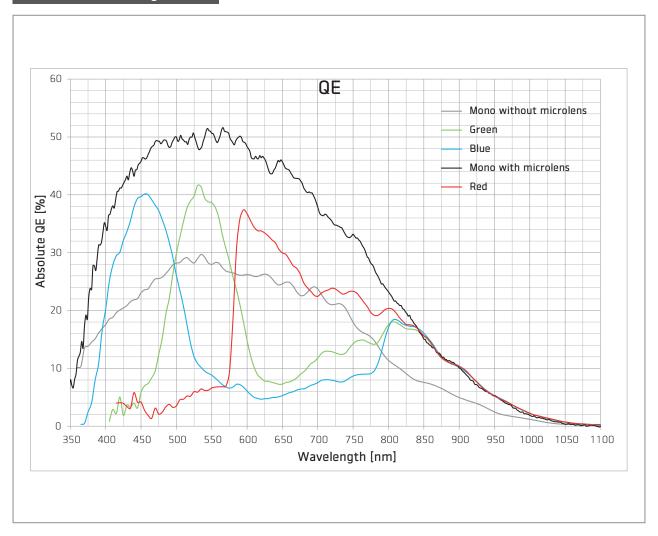
Applications

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

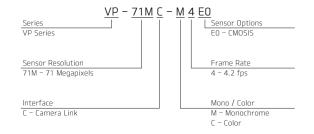
Specifications

Model		VP-71MC-M/C 4
Resolution (H $ imes$ V)		10000 × 7096
Sensor		CMOSIS CHR70M
Sensor Size (Optical Format)		31.00 mm \times 24.11 mm (38 mm)
Sensor Type		High Resolution CMOS Imaging Sensor
Pixe	l Size	3.1 μ m $ imes$ 3.1 μ m
2	Тар	Camera Link Base
Interface 4	Tap – Normal	Camera Link Medium
4	Tap – High	
		2.1 fps (CL Base)
Max. Frame Rate		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	t 2 Tap	85 MHz
Pixel Clock Spe	eed 4 Tap	Normal: 60 Mt / High: 85 Mt
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

Quantum Efficiency Curves



Ordering Scheme



Connector Specification

Power



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

Control

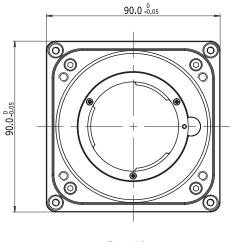


1: Trigger IN+, 2: Trigger IN-3: DC Ground, 4: Strobe OUT+ (HR10A-7R-4S)

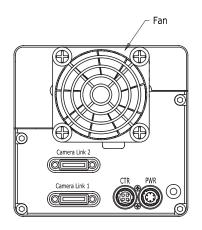
Connectors on camera body

Mechanical Dimensions

Unit: mm







<Back View>

