VC-61MX-M/C 18 H

Preliminary

High Performance 61MP CMOS Digital Camera



The VC-61MX-18 H, the latest model of the industrial proven VC series, is a new 61 megapixel CoaXPress camera and based on the latest CMOS image sensor technology (IMX455) from Sony Semiconductor Solutions Corporation. The VC-61MX-18 H offers up to 17.9 frames per seconds at 9568 \times 6380 resolution. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, the VC-61MX camera offers not only highly uniformed images but also high speed image processing capabilities. Featuring high quality image uniformity and high speed, this camera is ideal for demanding applications such as FPD, PCB and semiconductor inspections.



Main Features

- 61 Megapixel Resolution
- CoaXPress Interface up to 17.9 fps at 25 Gbps using 4 CH
- Electronic Rolling Shutter
- DSNU and PRNU Correction
- Flat Field Correction with Sequencer Control
- Hot Pixel Correction
- GenlCam Compatible XML based Control

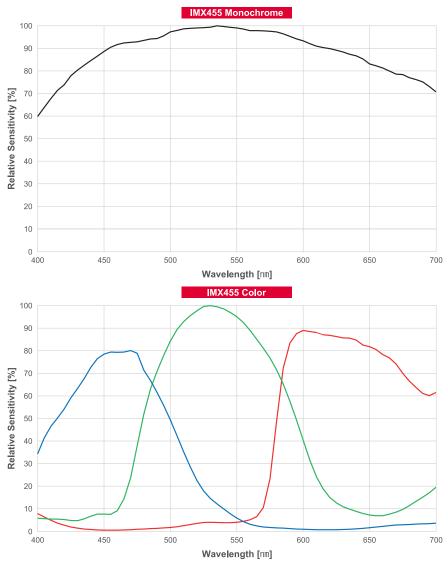
Specifications

Applications

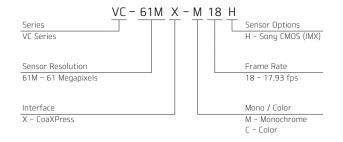
- Flat Panel Display Inspection
- Electronics Inspection
- Semiconductor Inspection
- Document / Film Scanning

Model		VC-61MX-M/C 18 H
Resolution (H $ imes$ V)		9568 × 6380
Sensor		SONY IMX455
Max. Image Circle		Diagonal 43.3 mm (Type 2.7)
Pixel Size		3.76 μ m $ imes$ 3.76 μ m
Interface		CoaXPress (CXP-3 / CXP-6)
Max. Frame Rate	8/10/12 bit	17.93 fps
	14 bit	9.99 fps
	16 bit	3.98 fps
Exposure Time (2-Line step)		17.33 µs - 60 s
Partial Scan (Max. Speed)		2057.6 fps at 4 Lines
Binning	Sensor	\times 1, \times 2, \times 3 (Horizontal and Vertical Dependent, 8/10/12 bit only)
	Logic	\times 1, \times 2, \times 4 (Horizontal and Vertical Independent)
Pixel Data Format	Mono	Mono 8 / Mono 10 / Mono 12 / Mono 14 / Mono 16
	Color	RG Bayer 8 / RG Bayer 10 / RG Bayer 12 / RG Bayer 14 / RG Bayer 16
Electronic Shutter		Rolling Shutter
Trigger Synchronization	Overlapped	Free-Run
	Non-overlapped	Hardware Trigger, Software Trigger, CXP or User OutputO
External Trigger		3.3 V \sim 24.0 V, 10 mA, Logical Level Input, Optically Isolated
Software Trigger		Asynchronous, Programmable via Camera API
Dynamic Range		78 dB
Gain Control	Analog	$1 \times \sim 32 \times$
	Digital	1× ~ 32×
Black Leve	el Control	0 ~ 1023 LSB at 16 bit
Dimension / Weight		80.0 mm $ imes$ 80.0 mm $ imes$ 107.0 mm, 744 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	Тур. 16.0 W
	PoCXP	24 V DC, Minimum of two PoCXP cables required
Compliance		CE, FCC, KC (in preparation)
API SDK		Vieworks Imaging Solution 7.X

Relative Sensitivity Curves



Ordering Scheme



Connector Specification

Power



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

Control



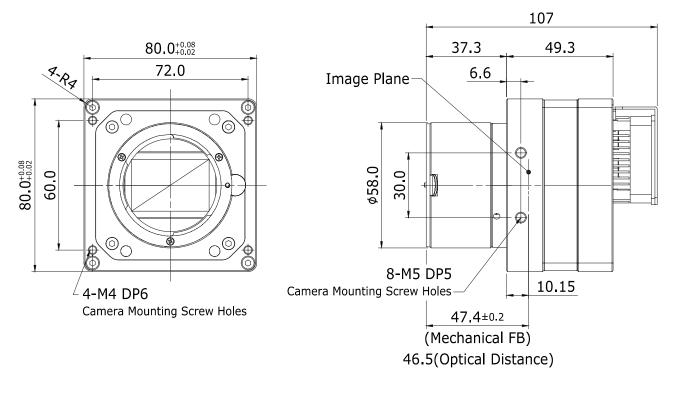
1: Trigger IN+ 2: Trigger IN-3: Strobe OUT-(GND) 4: Strobe OUT+ (HR10A-7R-4S)

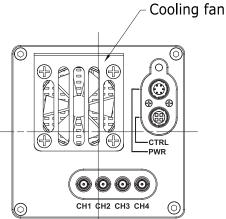
Data Transfer / Communications

OOOO CH1 CH2 CH3 CH4 CH1: Master Connection 75 Ω , DIN 1.0/2.3

Mechanical Dimensions

Unit: mm





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