VIEWOLKS

VN-25MX-M/C 72

PIXEL SHIFTING CAMERA WITH COAXPRESS INTERFACE



The VN-25MX, the new model of the VN series, is the world first CMOS pixel shifting camera equipped with new CoaXPress interface and based on the latest CMOS global shutter imager. It features 25 megapixel resolutions with frame rate up to 72 fps. It is the first 100 MP camera whose resolution is extended from 25 MP up to 100 MP through vieworks' genuine pixel shifting technology. With the VN-25MX, customers in the industrial market can take advantage of 100 million pixels resolution at 18 fps which is higher speed than ever. Its CoaXPress interface supports transmitting image data at up to 6.25 Gbps using a single coaxial cable and up to 25 Gbps using four cables. Featured with high speed and high resolution, this brand new technology is ideal for inspection systems such as FPD, PCB and semiconductor as well as 3D imaging and digitizing of different objects.

Main Features

- * 25 Megapixels Resolution
- * High Speed Progressive Scan CMOS Imager
- * Global Shutter CMOS Technology
- * CoaXPress Interface up to 72 fps at 25 Gbps using 4 coax cables (4CH)
- * Pixel Shifting Mechanism
- * Extended Resolution up to 100 MP at 18 fps (4 Shot Mode)

Applications

- * FPD and PCB Inspection
- * Semiconductor Inspection
- * High Speed 3D Imaging
- * Digitizing and Scanning
- * Research and Scientific Imaging

machinevision.vieworks.com



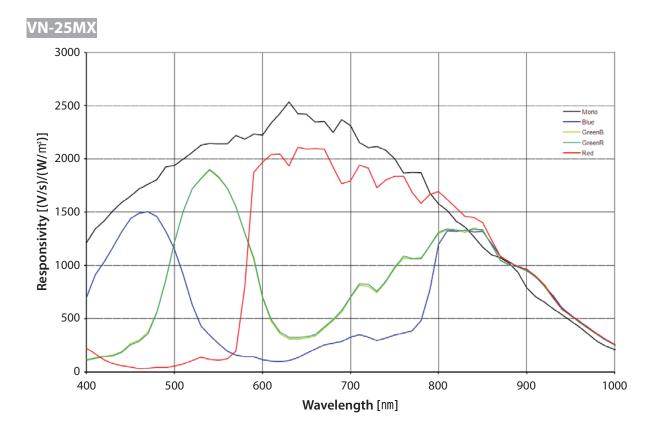
VN-25MX-M/C72

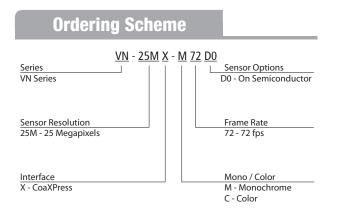
PIXEL SHIFTING CAMERA WITH COAXPRESS INTERFACE

Specifications

Model			VN-25MX-M/C 72			
Resolution ($H \times V$)			5120 × 5120			
Sensor			On Semiconductor VITA-25K			
Sensor Size (Optical Format)			23.04 mm $ imes$ 23.04 mm (35 mm)			
Sensor Type			High Speed CMOS Image Sensor			
Pixel Size			4.5 μ m $ imes$ 4.5 μ m			
Interface			CoaXPress			
Max. Frame R	25	5 M		2 CH: 36 fps	4 CH: 72 fps @ 6.25	Gbps
	10	00 M 00		2 CH: 9 fps	4 CH: 18 fps @ 6.25	Gbps
Shutter Speed (1 μ s step)			1 <i>µ</i> s - 60 s			
Partial Scan (Max. Speed)			7692 fps at 4 Lines (H: 256)			
Pixel Data Format			8 bit, 10 bit			
Electronic Shutter			Global Shutter			
Gain Control			×1 ~ ×4			
Black Level Control			0 - 16 LSB at 8 bit, 0 - 64 LSB at 10 bit			
Exposure Mode			Free-Run, Timed, Trigger Width			
Dynamic Range			54 dB			
Shift Range			0 ~ 7.5 µm, 1 nm step			
Shift Resolution			0.001 µm			
Shift Control			Sequence Mode(mono4, mono9, mono2H, mono2V, color4, color16, color36)			
Dimension / Weight (F-mount)			80mm imes 80mm imes 150mm, 1100 g			
Temperature			Operating: 0° C ~ 40° C			
			Storage: -40°C ~ 70°C			
Lens Mount			F-mount			
Power	Adapt	ter		11 ~ 30 V DC, MAX. 14 W		
	PoCXF	C	24 V	24 V DC, Minimum of two PoCXP cables required		
API SDK			Vieworks Imaging Solution 7.X			

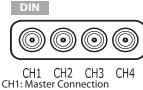
Quantum Efficiency Curves





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)

Data Transfer/Communications

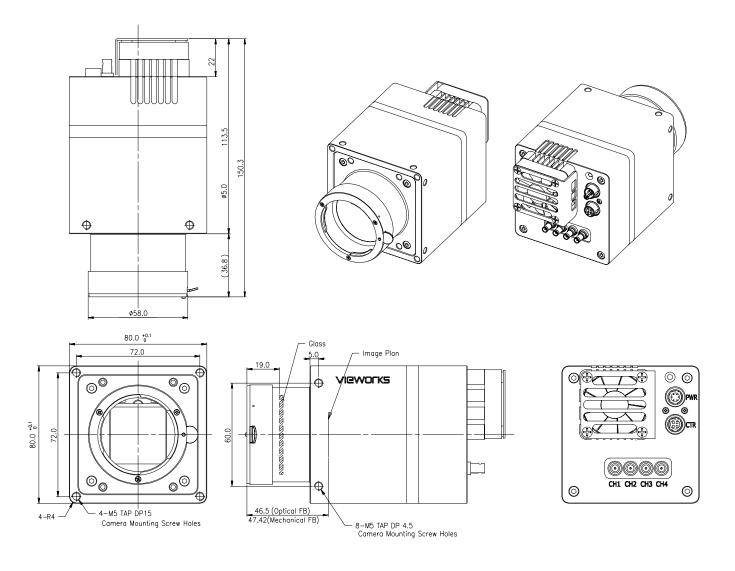


(75 Ω, DIN 1.0/2.3)

Connectors on camera body

Mechanical Dimensions

Unit : mm



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ISO 9001, ISO 13485

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