VP-152MX2-M16

152 Megapixel Thermoelectric Peltier Cooled Camera with CoaXPress 2.0 Interface



The VP-152MX2-M16, the latest model of the industrial proven VP series, is a new 152-megapixel CoaXPress camera and adopts the cutting-edge High Speed CMOS Image Sensor.

The VP-152MX2-M16 camera offers up to 16.3 frames per second at $16,544 \times 9,200$ resolution. This camera uses thermoelectric Peltier (TEC) cooling technology developed for and used by many demanding medical market customers. The TEC maintains the operating temperature of the CMOS image sensor at up to 15 degrees below ambient temperature. This camera provides a stable operating condition and the ability to expose for a long period of time to increase camera sensitivity.

Featuring the stable operating capability and high resolution, this camera is ideal for demanding applications such as FPD, PCB and semiconductor inspections.

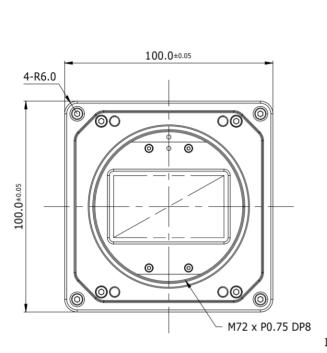


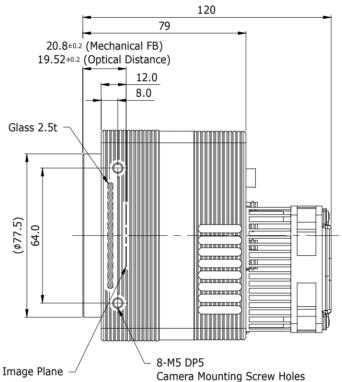
vision.vieworks.com

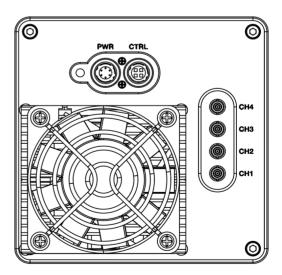


MechanicalDimensions

Unit: mm









Main Features

- Thermoelectric Peltier Cooled 15±2℃ below
- 152 Megapixel Resolution
- CoaXPress 2.0 Interface up to 16.3 fps at 50 Gbps using 4 CH
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Flat Field Correction
- GenlCam Compatible XML based Control

Specifications

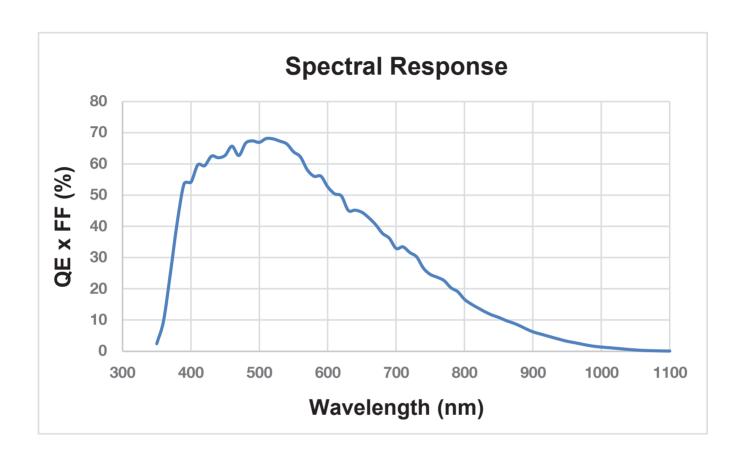
Applications

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

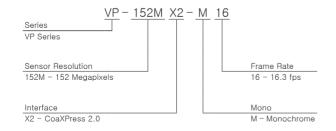
	VP-152MX2-M16
H × V)	16,544 × 9,200
Diagonal)	53.0 mm ×29.4 mm (60.6 mm)
уре	High Speed CMOS Image Sensor
ze	3.2μ m $ imes 3.2 \mu$ m
е	CXP-12 × 4
CXP-6 × 4	15.6 fps
CXP-10 × 4	16.3 fps
CXP-12 × 4	16.3 fps
(1 µs step)	1 <i>µ</i> s - 60 s
ax. Speed)	704 fps at 4 Lines
ormat	Mono 8 / Mono 10 / Mono 12
Shutter	Global Shutter
g	\times 1, \times 2, \times 4 (Horizontal and Vertical Independent)
Analog	$1.4 \times \sim 2.8 \times \text{ (Step 0.1)}, 3.2 \times \sim 5.2 \times \text{(Step 0.4)}$
Digital	1 × ~ 32 ×
Control	0 - 255 LSB at 12 bit
onization	Free-Run, Hardware Trigger, Software Trigger or CXP
igger	3.3 V \sim 24.0 V, 10 mA, Logical Level Input, Optically Isolated
rigger	Asynchronous, Programmable via Camera API
ange	66 dB
ethod	Thermoelectric Peltier Cooling
rmance	15±2℃ below ambient temperature - Standard cooling with a fan
Weight	100.0 mm \times 100.0 mm \times 116.0 mm, 1,650 g (with M72-mount)
ture	Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C
unt	M72-mount, Custom mount available upon request
External	11 ~ 24 V DC
Dissipation	Typ. 32.0 W
nce	CE, FCC, KC
K	Vieworks Imaging Solution 7.X
	ce commander com



Spectral Response



Ordering Scheme



ConnectorSpecification

Power



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

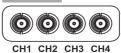
4, 5, 6: GND

Control



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

Data Transfer / Communications



CH1: Master Connection 75 Ω , Micro-BNC (HD-BNC)

Connectors on camera body