

# VL-8K7X2 Series

High Sensitivity & High Speed Line Scan Camera



**CoaXPress**<sup>®</sup>

The VL-8K7X2-M200I-2, VL-8K7X2-M67I-4 and VL-8K7X2-C67I-4, the latest models of the industrial proven VL series, are new 8k CMOS line scan cameras available with the CoaXPress 2.0 interface. The VL-8K7X2-M200I-2 camera delivers a maximum line rate of 200 kHz at 8k resolution.

Even higher resolution, up to 8192 pixel resolution at 200 kHz line rate can be achieved using the VL-8K7X2-M200I-2 camera. The VL-8K7X2-C67I-4, the color line scan cameras, are also available for your color applications and color detection.

Featuring high sensitivity and high speed, these cameras are ideal for wide range of demanding applications such as flat panel display inspection, printed circuit board inspection, and high-performance document scanning.

**VIEWWORKS**

[vision.viewworks.com](http://vision.viewworks.com)

## VL-8K7X2 Series

High Sensitivity & High Speed Line Scan Cameras

### Main Features

- CMOS Line Scan
- CoaXPress 2.0 Interface
- Maximum 8k Pixel Resolution
- Exposure Control
- PoCXP Compliant
- GenICam Compatible –XML based Control

### Applications

- Flat Panel Display Inspection
- Printed Circuit Board Inspection
- High Performance Document Scanning
- Printing and Packaging System

### Specifications

Model		VL-8K7X2-M200I-2	VL-8K7X2-M/C67I-4
Resolution (H × V)		8192 × 1 (Single) 8192 × 2 (Dual)	8192 × 1 (Single) 8192 × 2 (Dual) 8192 × 3 (Triple) 8192 × 4 (Quad)
Sensor		Gpixel GL7008	
Mono / Color		Mono(Dual)	Mono(Quad) / Color(Triple/Quad)
Pixel Size		7.0 μm × 7.0 μm	
Electronic Shutter		Global Shutter	
Interface		CoaXPress 2.0	
Max. Line Rate		Single: 200 kHz Dual: 100 kHz	Triple: 67 kHz Quad: 50 kHz
Exposure Time		0.1 ~ 1000.00 μs (per individual band)	
Pixel Format	Mono (Dual)	Mono 8/10/12 bit	Mono 8/10/12 bit
	Mono (Quad)	N/A	Mono 8/10/12 bit
	Color		Triple: RGB 8/10/12 bit Quad: RGBa 8/10/12 bit
Trigger Synchronization		Free-Run, Hardware Trigger, CoaXPress	
External Trigger		3.3 V ~ 5.0 V	
Dynamic Range		63 dB	
Black Level		from -2048 to 2047 LSB at 12 bits	
Gain Control	Individual Gain	1.00× ~ 4.00×	
	Gain All	1.00× ~ 32.00×	
Lens Mount		M72-mount	
Dimension / Weight		80 mm × 80 mm × 73 mm / 578 g	
Temperature		Ambient Operating: 0°C ~ 40°C (Housing: 10°C ~ 55°C), Storage: -40°C ~ 70°C	
Power	External	11 - 24 VDC	
	Dissipation	Typ. 11 W	
	PoCXP	24 VDC, Minimum of two PoCXP cables required	
Compliance		CE, FCC, KC	

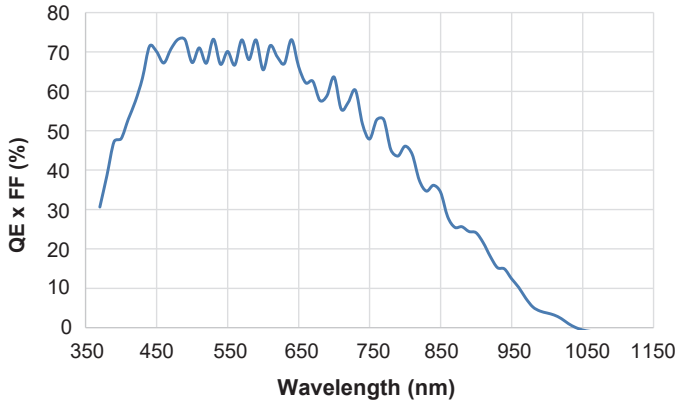
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## Quantum Efficiency

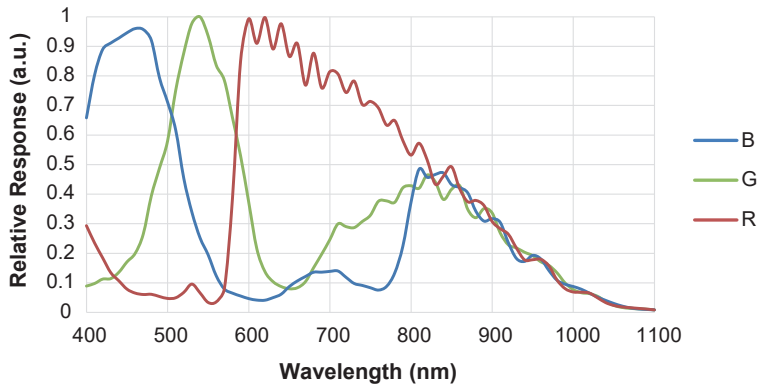
### Monochrome

Spectral Response

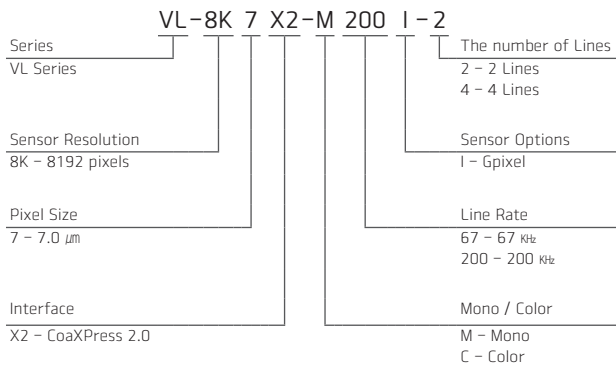


### Color

Relative Response

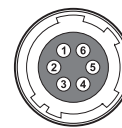


## Ordering Scheme



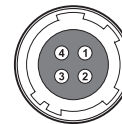
## Connector Specification

Power



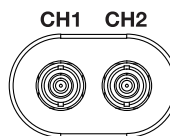
1 2 3: +12 VDC, 4 5 6: GND  
(HR10A-7R-6PB)

Control



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

Data Transfer / Communications



CH1: Master Connection

75 Ω, Micro-BNC(HD-BNC)

Connectors on camera body

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## Mechanical Dimensions

Unit: mm

