

VL-8K7X2 Series

High Sensitivity & High Speed Line Scan Camera



CoaXPress[®]

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

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 (Quad) | Mono 8/10/12 bit |
| | Color | N/A 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 | 11 - 24 VDC, Minimum of two PoCXP cables required |
| Compliance | CE, FCC, KC | |

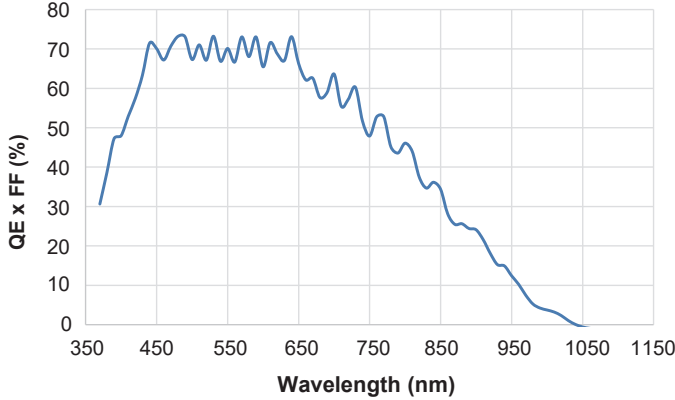
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Quantum Efficiency

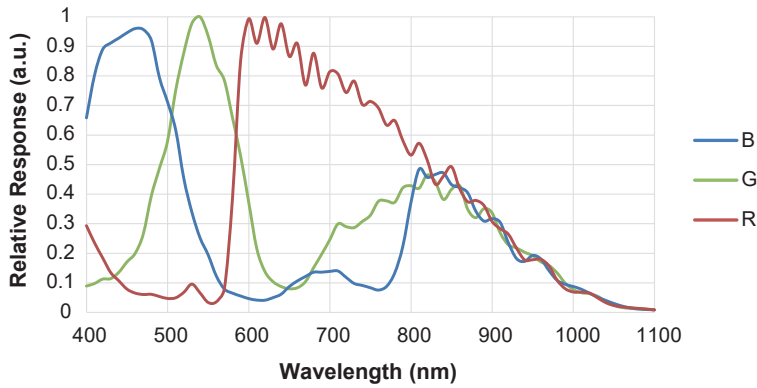
Monochrome

Spectral Response

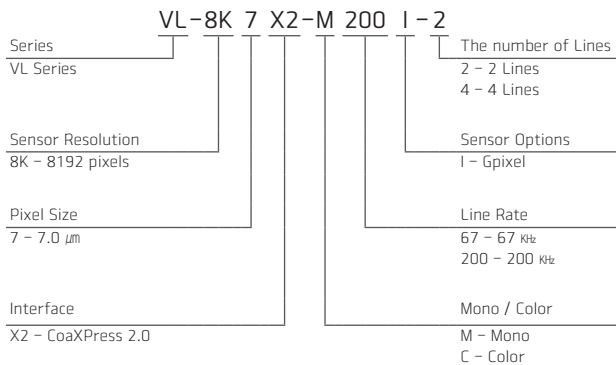


Color

Relative Response

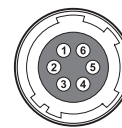


Ordering Scheme



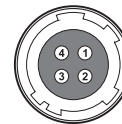
Connector Specification

Power



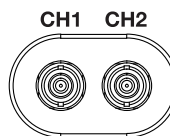
1 2 3: +12 VDC, 4 5 6: GND
(HR10A-7R-6PB)

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

