VL-2K7X-M/C VL-4K3.5X-M/C

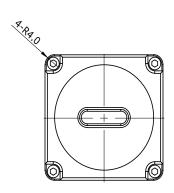
Line Scan Cameras with CoaXPress 1.0 Interface

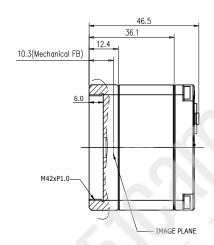


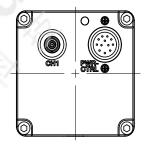
The new line scan cameras,VL-2K7X-M/C and VL-4K3.5X-M/C, provide a fast line rate and are equipped with the CoaXPress 1.0 interface. The VL-2K7X-M/C and VL-4K3.5X-M/C cameras feature line rates of up to 170k½ at 2K resolution. The GL3504 image sensors support 7µm pixel lines at 2k resolution and 3.5µm pixel lines at 4k resolution. VL-2K7X-M/C and VL-4K3.5X-M/C are small format cameras compatible with M42 and C-mount lenses. Featuring high speed and color variation, the VL-2K7X-M/C and VL-4K3.5X-M/C cameras are ideal for a wide range of applications, such as food and agricultural inspection, pharmaceutical inspection, wood inspection, and fabric inspection.

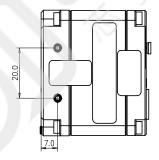
Mechanical Dimensions

Unit: mm









VL-2K7X-M/C / VL-4K3.5X-M/C

Line Scan Camera with CoaXPress 1.0

Main Features

- M42-mount based 2k / 4k Line Scan Cameras
- CoaXPress Interface
- Supports 2 stage TDI (Mono)
- GL3504 2k color supports 3-line true color with RGBW Quad-Linear method
- Individual Gain/Exposure Control
- Optimized for M42, 50x50 mm size
 (C-Mount is available when using an adapter)
- GenlCam Compatible XML based Control

Applications

- Food & Agricultural Inspection
- Pharmaceutical Inspection
- Wood Inspection
- Fabric Inspection

Specifcations

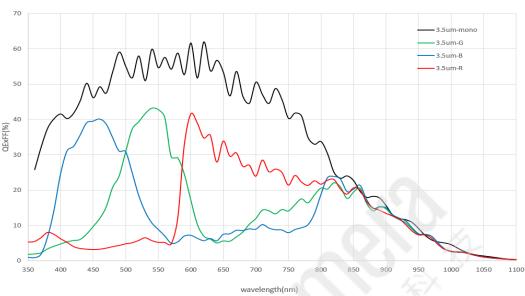
Model		VL-2K7X- M170I-2	VL-2K7X- C44l-4	VL-4K3.5X- M83I-2	VL-4K3.5X- C42I-2
Resolution (H × V)		2048 × 2	2048 × 4	4096 × 2	4096 × 2
Sensor		GL3504			
Mono / Color		Mono	True Color	Mono	Bayer Color
Pixel Size		$7.0~\mu\mathrm{m}~ imes~7.0~\mu\mathrm{m}$		3.5 μm × 3.5 μm	
Electronic Shutter		Global Shutter			
Interface		CoaXPress 1.0 (CXP-3 / CXP-6)			
Max. Line Rate		Single: 170 кнг Dual: 87 кнг	Quad: 44 кнz	Single: 83 KHz Dual: 42 KHz	Dual: 42 кнz
Exposure Time		0.1 to 1000 μ s (All or Individual band)			
Pixel Data Format		Mono 8/10/12	RGB/BGR 8/10/12 RGBa/BGRa 8	Mono 8/10/12	RGB/BGR 8/10/12
Gamma Correction		User defined LUT (Look Up Table)			
Offset and Gain Correction		DSNU and PRNU			
Trigger Synchronization		Free-Run, Hardware Trigger, and CoaXPress			
External Trigger		3.3 V to 5.0 V			
Dynamic Range		65.5 dB 65.8 dB			
Black Level		-2048 to 2048 LSB at 12bits			
Gain Control	Individual Gain	1.00 x to 4.00 x			
Digital Gain		1.00 x to 32.00 x			
Lens Mount		M42, C-mount			
Dimension / Weight		50 mm x 50 mm x 46.5 mm, 195 g			
Temperature		Ambient Operationg: 0°C to 40°C (Housing: 10°C to 50°C) Storage: −40°C to 70°C			
	External	11 to 24 VDC			
Power	Dissipation PoCXP	Max. 5.0 W 24 VDC			
API SDK		Vieworks Imaging Solution 7.X			

VL-2K7X-M/C/ VL-4K3.5X-M/C

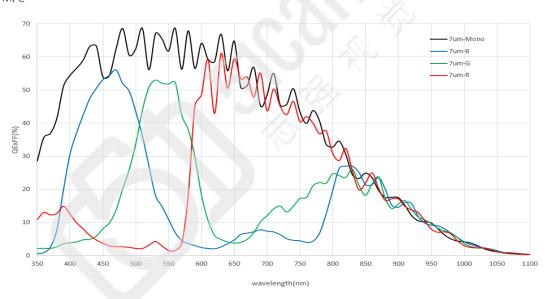
Line Scan Camera with CoaXPress 1.0

Spectral Response

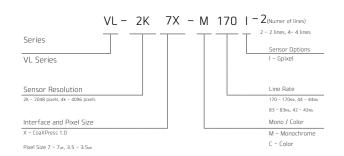
VL-4K3.5X-M/C



VL-2K7X-M/C



Ordering Scheme



Connector Specification

Power/Control



1: DC Ground 2: +12 VDC
3: Signal Ground *4: Line2+
5: Signal Ground *6: Line0+
7: NC 8: NC
*9: Line1+ *10: NC
11: NC 12: Signal Ground
(HR10A-10R-12PB)

*LineO+ is connected with Tirgger In+ function
*Line1+ is connected with Scan direction In+

*Line2+ is connected with Strobe

Connectors on camera body