

VTC Series

2k Color TDI Line Scan Cameras



The VTC-2K10.5C, VTC-2K10.5X and VTC-2K10.5G, the new hybrid color Time Delayed Integration (TDI) line scan cameras, provide faster line rates and higher sensitivity than existing line scan cameras.

With hybrid TDI line scan technology combining the strengths of both CCD and CMOS image sensors, the M42 mount-based VTC-2K10.5C/X/G cameras can acquire True Color images at faster line rates with up to 80 times higher sensitivity. These 2k color TDI line scan cameras are available with the Camera Link, GigE or CoaXPress interface standard to meet application-specific requirements. Featured with high speed and high sensitivity, these cameras are ideal for demanding applications such as flat panel inspection, wafer inspection, printed circuit board inspection, and high-performance document scanning.

VTC-2K10.5C / VTC-2K10.5X / VTC-2K10.5G

2k Color TDI Line Scan Cameras

Main Features

- Hybrid Color TDI Line Scan
- True Color Imaging
- 2160 × 80 Pixel Resolution
- Bidirectional Operation with up to 80 TDI Stages
- Supports Camera Link, GigE and CoaXPress
- Advanced DSNU and PRNU Correction
- Trigger Rescaler and Strobe Output Control

Applications

- Flat Panel Display Inspection
- PCB Inspection
- Machine Vision Inspection
- Microscopy and Metrology

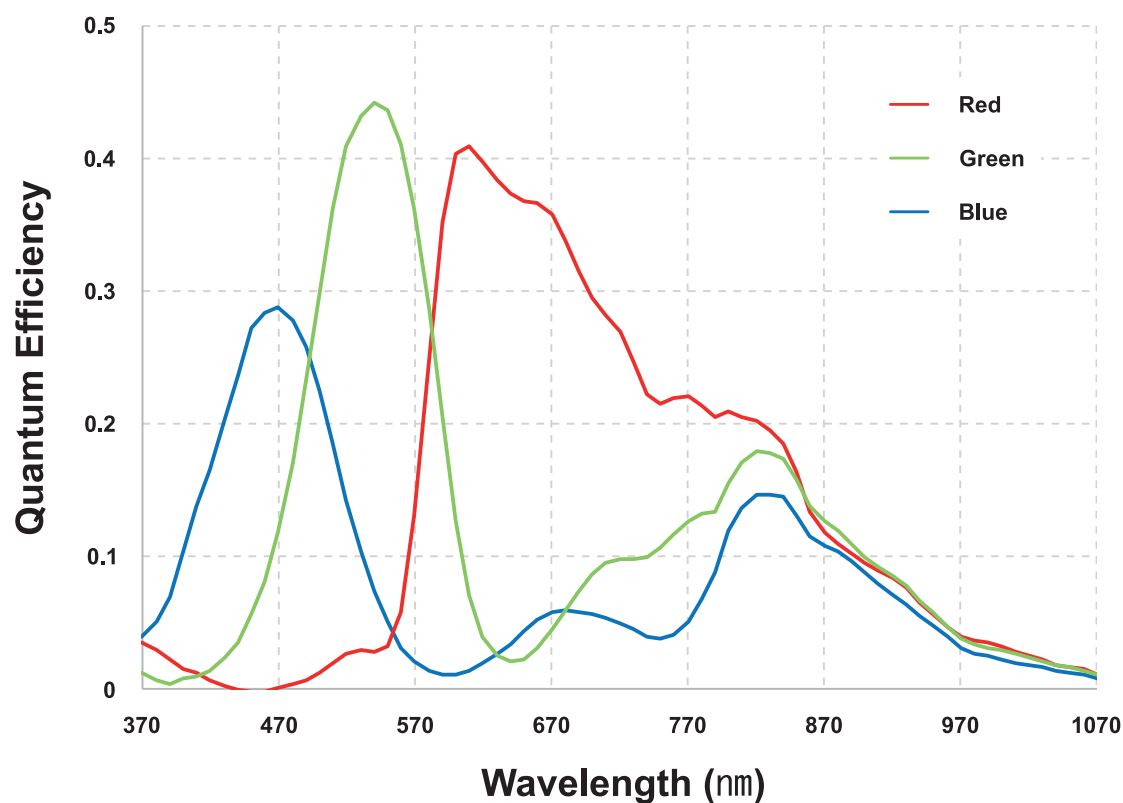
Specifications

Model		VTC-2K10.5C-C100A-80	VTC-2K10.5X-C140A-80	VTC-2K10.5G-C19A-80
Resolution (H × V)		2160 × 80		
Sensor		Hybrid Color TDI Line Scan		
Pixel Size		10.5 μm × 10.5 μm		
Interface		Camera Link	CoaXPress	GigE
Max. Line Rate		100 kHz	140 kHz	19 kHz
Min. Line Rate		1 kHz		
Pixel Data Format		8 / 10 / 12 bit		
TDI Stages		20 / 40 / 60 / 80		
Trigger Synchronization		Free-Run, External, CC1	Free-Run, External, CoaXpress	Free-Run, External
Throughput		0.22 Gpix/s	0.30 Gpix/s (CXP 2 CH)	0.04 Gpix/s
Gamma Correction		User Defined LUT (Lookup Table)		
Black Level Control		-255 ~ 255 at 8 bit		
Gain Control		Analog Gain: 1×, 2×, 3×, 4× / Digital Gain: 1.0× ~ 8.0×		
Lens Mount		M42 × 1 mm (C or F-mount available upon request)		
Dimension / Weight		60 mm × 60 mm × 36 mm, 223 g		
Temperature		Ambient Operating: 0°C ~ 50°C (Housing: 10°C ~ 50°C), Storage: -40°C ~ 70°C		
Power	External	10 ~ 30 V DC, Typ. 5.0 W	10 ~ 30 V DC, Typ. 5.5 W	10 ~ 30 V DC, Typ. 4.5 W
	PoCXP	Not supported	24 V DC Minimum of one PoCXP cable required	Not supported
Compliance		CE, FCC, KC		CE, FCC, KC, UKCA
API SDK		Vieworks Imaging Solution 7.X		
Config. SW for CL		Configurator	Not supported	Not supported

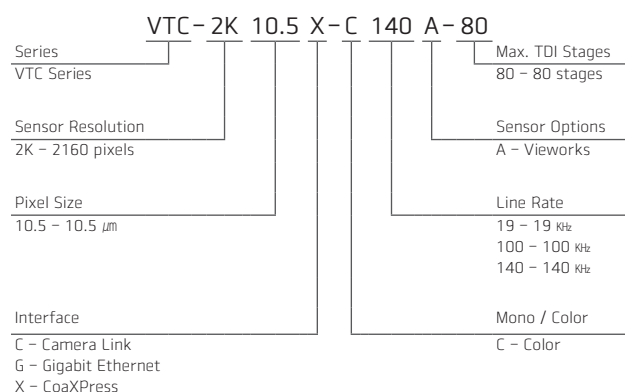
VTC-2K10.5C / VTC-2K10.5X / VTC-2K10.5G

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Quantum Efficiency Curves

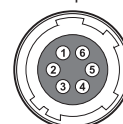


Ordering Scheme



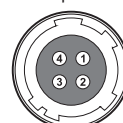
Connector Specification

Power Input Receptacle



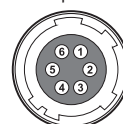
1, 2, 3: +12V DC
(HR10A-7R-6PB) 4, 5, 6: GND

Control I/O Receptacle for CL and CXP



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

Control I/O Receptacle for GigE



1: Trigger IN1+ 2: Trigger IN1-
3: Strobe Out 4: DC Ground
5: Trigger IN2+ 6: Trigger IN2-
(HR10A-7R-6SB)

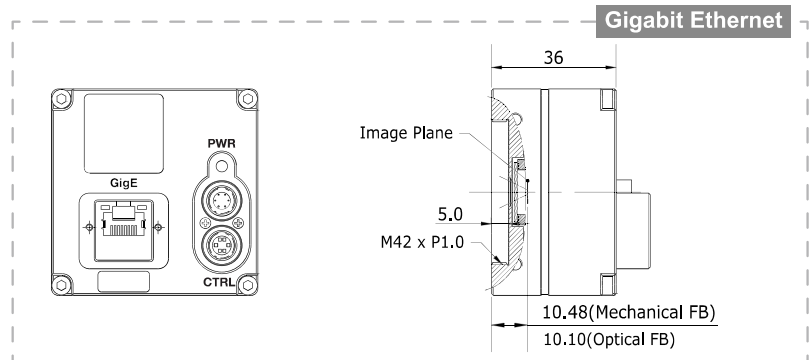
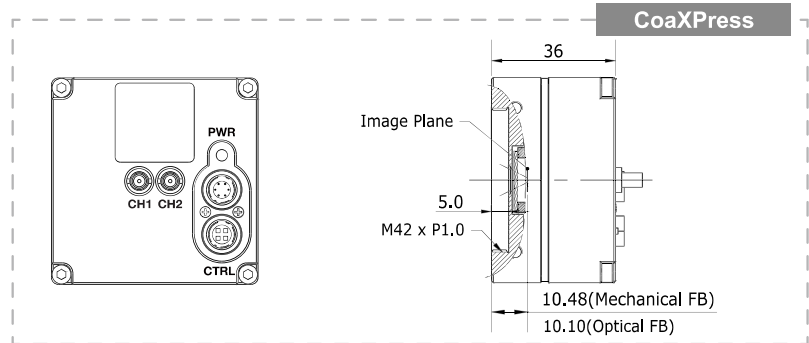
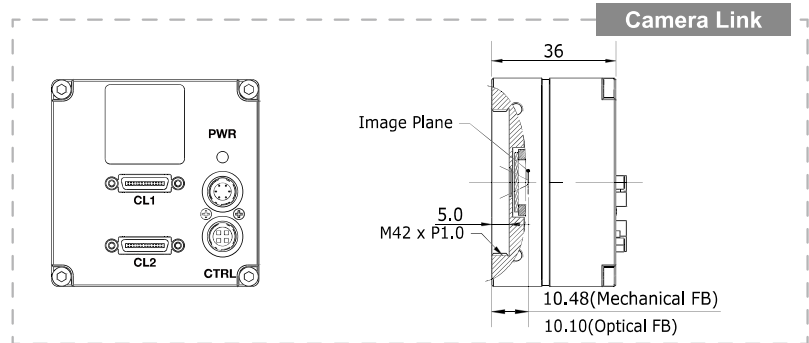
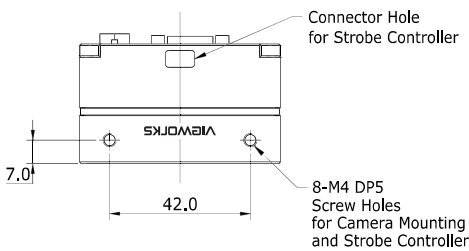
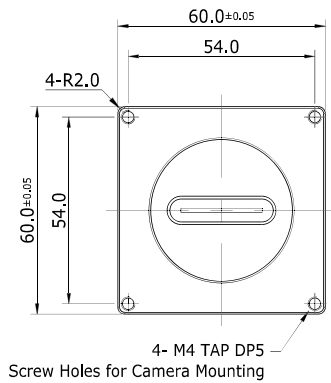
Connectors on camera body

VTC-2K10.5C / VTC-2K10.5X / VTC-2K10.5G

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Mechanical Dimensions

Unit: mm



최적의 ALL-IN-1 솔루션을 제안합니다.

솔루션, 제품, 서비스에 대해 궁금하신 내용을 남겨주시면 빠른 시일 내로 회신 드리겠습니다.



공식 홈페이지



공식 블로그



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