

VT-16K5X2-E300A-64 VT-16K5X2-H300A-256

High Speed & High Sensitivity 16k TDI Line Scan Cameras



CoaXPress®

The VT-16K5X2-E300A-64 and VT-16K5X2-H300A-256, the new hybrid Time Delayed Integration (TDI) line scan cameras equipped with four CoaXPress channels, 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 VT-16K5X2-E300A-64 camera delivers line rates of up to 300 kHz at 16k resolution with 64× higher sensitivity. Even superior sensitivity, up to 16384 pixel resolution at a maximum line rate of 300 kHz and 256× greater sensitivity can be achieved using the VT-16K5X-H300A-256 camera. 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.

VIEWORKS

vision.vieworks.com

VT-16K5X2-E300A-64 / VT-16K5X2-H300A-256

High Speed & High Sensitivity 16k TDI Line Scan Cameras

Main Features

- 16k Hybrid TDI Line Scan
- CoaXPress Interface up to 300 kHz at 50 Gbps using 4 CH
- Bidirectional Operation with up to 256 TDI Stages
- Advanced DSNU and PRNU Correction
- Trigger Rescaler and Strobe Output Control
- GenICam Compatible – XML based Control

Applications

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

Specifications

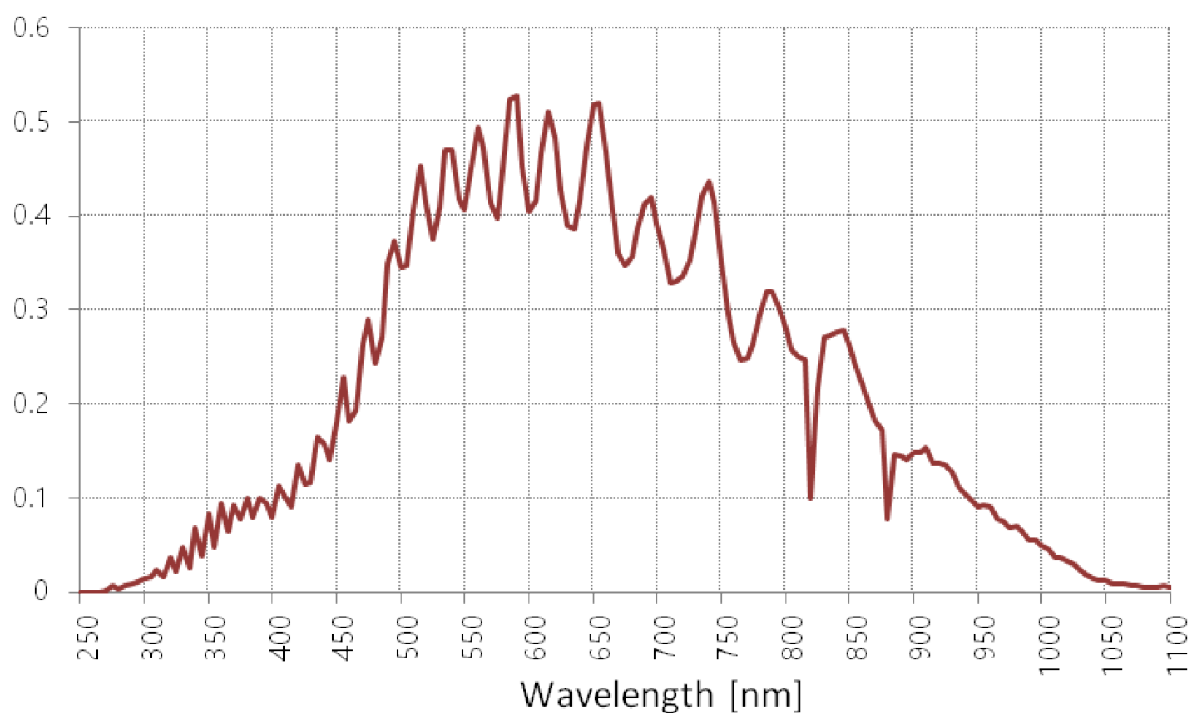
Model		VT-16K5X2-E300A-64	VT-16K5X2-H300A-256
Resolution (H × V)		16384 × 64	16384 × 256
Sensor		Hybrid TDI Line Scan	
Pixel Size		5.0 μm × 5.0 μm	
Interface		CoaXPress 2.0 (CXP-12, 4 channels)	
Max. Line Rate		300 kHz (ROI 16,000 pixels)	
Max. Line Rate (2 × 2 Binning)		257 kHz	
Min. Line Rate		1 kHz	
Pixel Data Format		8/10/12 bit	
TDI Stages		64	64 / 128 / 192 / 256
Trigger Synchronization		Free-Run, External or CoaXPress	
Throughput		4.8 Gpix/s	
Gamma Correction		User Defined Lookup Table (LUT)	
Black Level Control		-255 ~ 255 at 8 bit	
Gain Control		Analog Gain: 1×, 2×, 3×, 4× / Digital Gain: 1.0× ~ 8.0×	
Lens Mount		M95 × 1 mm	
Dimension / Weight		100 mm × 100 mm × 72 mm / 886 g	
Temperature		Ambient Operating: 0°C ~ 40°C (Housing: 10°C ~ 50°C), Storage: -40°C ~ 70°C	
Power	External	10 ~ 30 V DC	
	Dissipation	Typ. 18.0 W	
	PoCXP	24 V DC, Minimum of two PoCXP cables required	
Compliance		CE, FCC, KC	
API SDK		Vieworks Imaging Solution 7.X	

VT-16K5X2-E300A-64 / VT-16K5X2-H300A-256

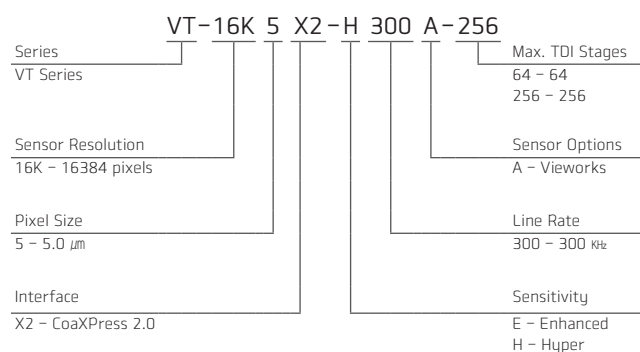
High Speed & High Sensitivity 16k TDI Line Scan Cameras

Quantum Efficiency

Quantum Efficiency

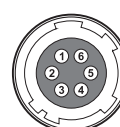


Ordering Scheme



Connector Specification

Power



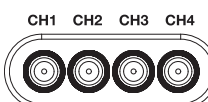
1, 2, 3: +12 V DC
4, 5, 6: GND
(HR10A-7R-6PB)

Control



1: Trigger IN
2: Direction IN
3: GND
4: GND
5: NC
6: Strobe Out
(HR10A-7R-6SB)

Data Transfer / Communications



CH1: Master Connection

75 Ω , Micro-BNC(HD-BNC)

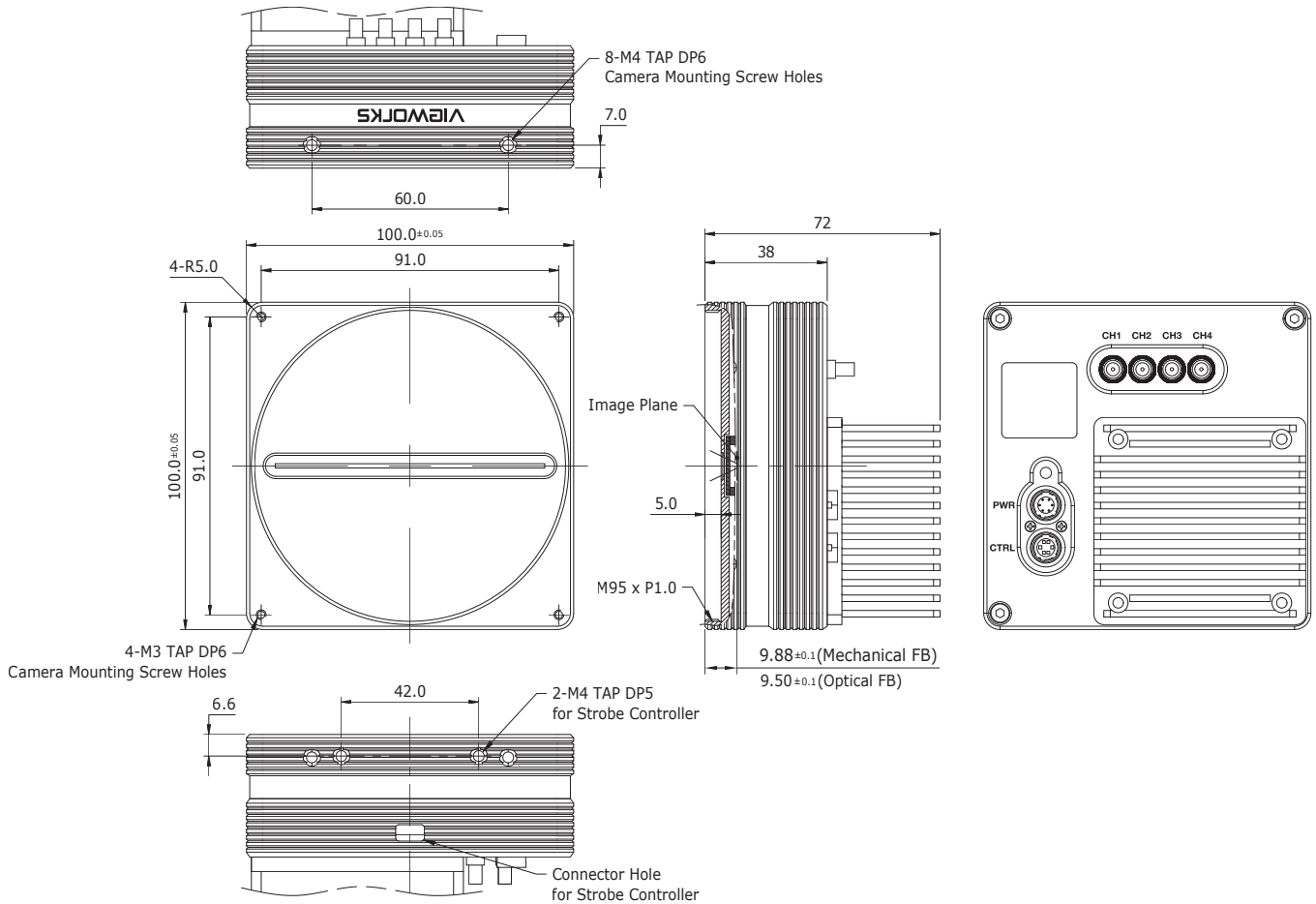
Connectors on Camera Body

VT-16K5X2-E300A-64 / VT-16K5X2-H300A-256

High Speed & High Sensitivity 16k TDI Line Scan Cameras

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



공식 인스타그램

제품·기술지원 문의

☎ 02-6914-6363

✉ b2s@b2s.kr