

VTs-23K3.5X2-H209A-384

High Speed & High Resolution CMOS Digital Camera with BSI Sensor



CoaXPress®

The VTS-23K3.5X2-H209A-384, the new Time Delayed Integration (TDI) line scan camera, equipped with 4 CoaXPress channels, provides faster line rates and higher sensitivity than existing line scan cameras. With the hybrid TDI line scan technology combined with a BSI (Backside-Illuminated) sensor, the VTS-23K3.5X2-H209A-384 camera delivers up to 23,456-pixel resolution at a maximum line rate of 209kHz, with 384x sensitivity. Featuring high speed and high sensitivity, this camera is ideal for demanding applications such as flat panel inspection, wafer inspection, PCB inspection, and advanced document scanning.

VIEWWORKS

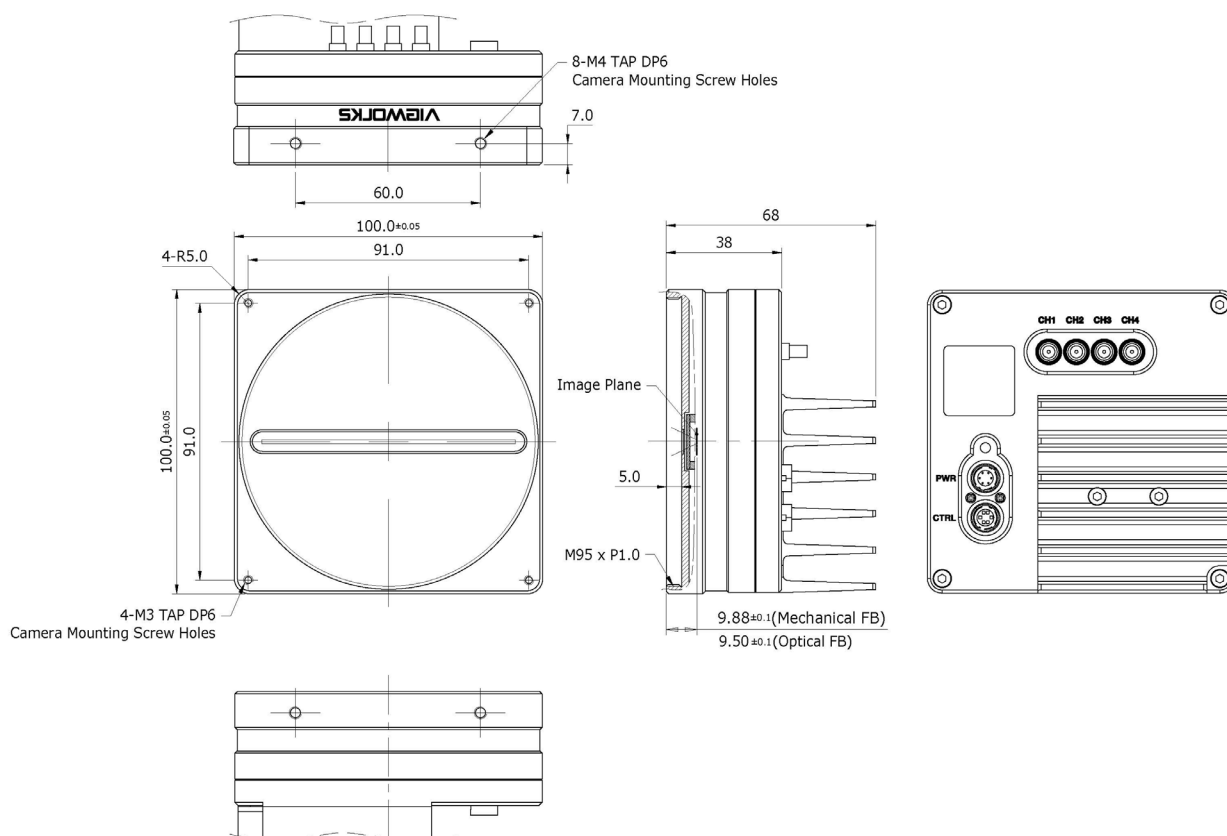
vision.vieworks.com

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Mechanical Dimensions

Unit: mm



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Main Features

- BSI (Backside Illuminated) Sensor
- High Speed 23K CMOS Image Sensor
- CoaXPress Interface up to 209 KHz at 50Gbps using 4 channels
- Advanced DSNU and PRNU Correction
- Defective Pixel Correction
- GenICam Compatible -XML based Control

Applications

- FPD and Electronics Inspection
- Semiconductor Inspection
- Research and Scientific Imaging
- Document / Film Scanning

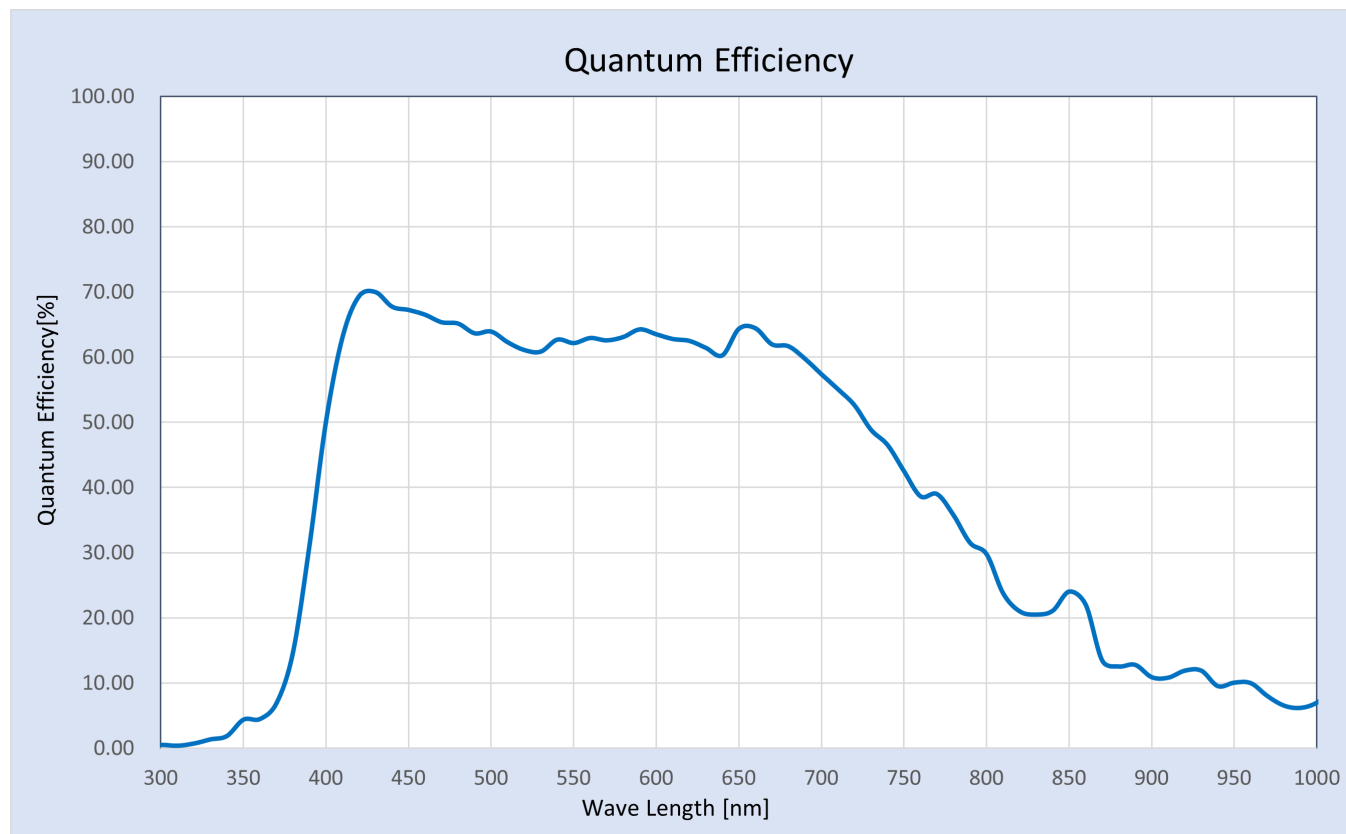
Specifications

Model		VTs-23K3.5X2-H209A-384
Resolution (H × V)		23,456 × 384
Sensor Type		BSI (Backside Illuminated) Sensor
Pixel Size		3.5 μm × 3.5 μm
Interface		CoaXPress 2.0 (CXP-12, 4 channels)
Pixel Data Format		8 / 10 / 12 bit
TDI Stages		64 / 128 / 192 / 256 / 320 / 384
TDI Direction		External Control Port or Programmable
Trigger Synchronization		Free-Run, External Trigger Signal, CoaXPress, Programmable Line Rate and Trigger Polarity
Max. Line Rate		209 KHz
Min. Line Rate		1 KHz
Dynamic Range		62.5 dB
Throughput		4.8 Gpix/s (CXP 2.0 4CH)
Gamma Correction		User Defined Lookup Table (LUT)
Black Level Control		-255 to 255 at 8 bit
Gain Control	Analog Gain	x1, x2, x3, and x4
	Digital Gain	1.0x to 32.0x
Dimension / Weight		100 mm × 100 mm × 68 mm / 860 g
Lens Mount		M95 x 1mm
Power	Adapter	11 to 24 V DC
	Dissipation	Typ. 20 W
	PoCXP	24 V DC, Minimum of two PoCXP cables required
Temperature		Ambient Operating: 0°C to 40°C (Housing: 10°C to 50°C) Storage: 40°C to 70°C
API SDK		Viewworks Imaging Solution 7.X

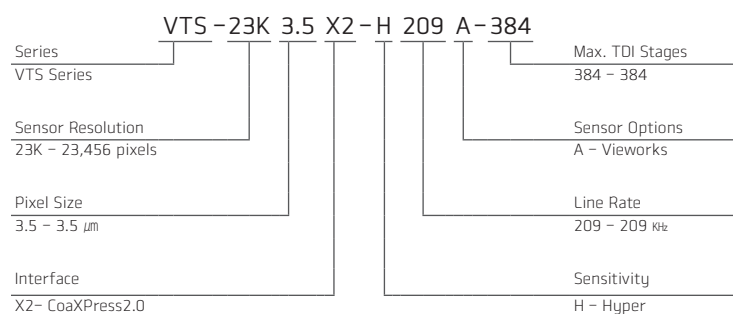
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Spectral Response

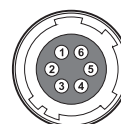


Ordering Scheme



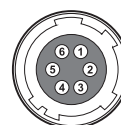
Connector Specification

Power



1, 2, 3: +11 to 24V DC
4, 5, 6: GND
(HR10A-7R-6PB)

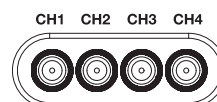
Control



1: Line0
3: GND
5: Line3
(HR10A-7R-6SB)

2: Line1
4: GND
6: Line2

Data Transfer / Communications



CH1: Master Connection

75 Ω , Micro-BNC(HD-BNC)

Connectors on Camera Body