

Preliminary

VTS-9K5X2-H550I-256-UV

High Speed & High Sensitivity 9k TDI UV Camera
with BSI Image Sensor



The VTS-9K5X2-H550I-256-UV camera, the new Time Delayed Integration (TDI) camera with a Back-Side Illuminated (BSI) image sensor by charge-domain CMOS technology, provides faster line rates and higher sensitivity than existing TDI cameras.

With the state-of-the-art BSI sensor from Gpixel, the camera acquires images of 9k resolution with 256x higher sensitivity, and for higher than that, the camera also supports the HDR feature using both photosensitive bands, 256 stages and 32 stages respectively.

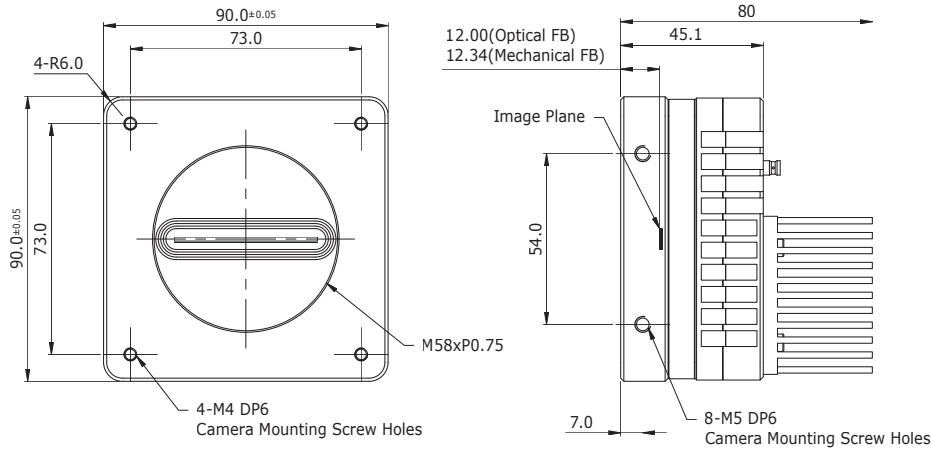
Featured with high speed and high sensitivity, the camera is ideal for demanding applications such as semiconductor inspection, PCB(Printed Circuit Board) inspection, flat panel display inspection, and fluorescence imaging.

VTs-9K5X2-H550I-256-UV

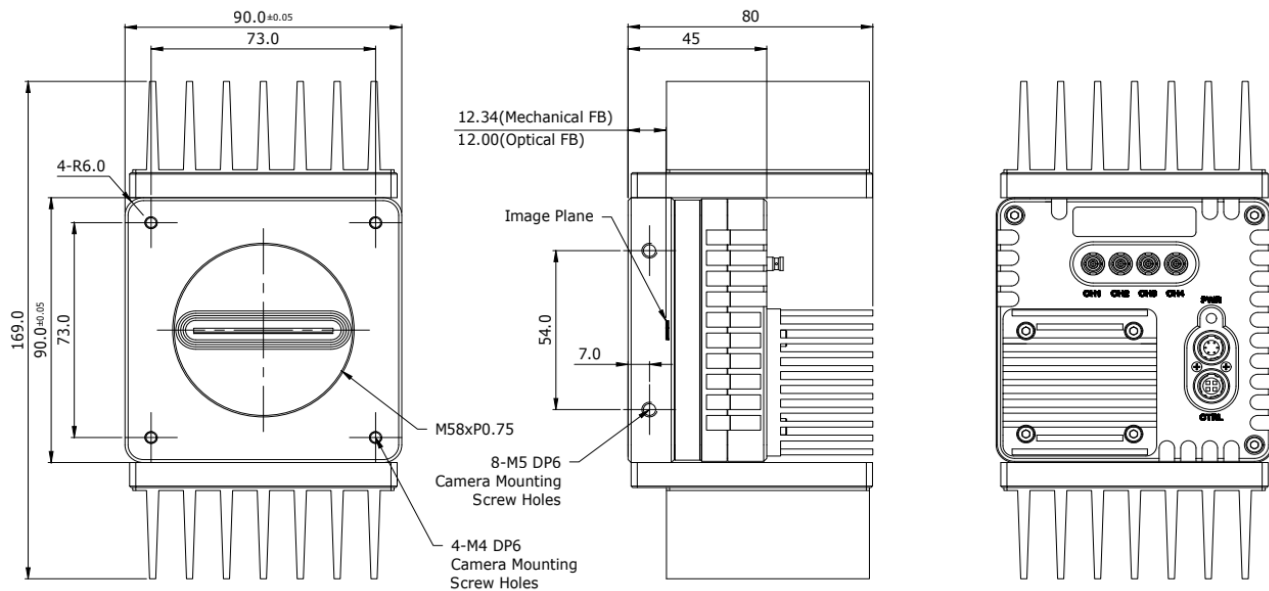
High Speed & High Sensitivity 9k TDI UV Camera

Mechanical Dimensions

- VTs-9K5X2 UV Camera



- VTs-9K5X2 UV Camera with two additional heatsinks (Heatsink Size: 87mm x 39.5mm x 78.5mm)



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

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High Speed & High Sensitivity 9k TDI UV Camera

Main Features

- 9k TDI, BSI(Back-Side Illuminated), UV enhanced
- CoaXPress Interface up to 543 kHz at 50 Gbps using 4 CH
- Bidirectional Operation with up to 256 TDI Stages in a Single Band, or 32 TDI Stages in a Dual Band
- Advanced DSNU and PRNU Correction
- Strobe Output Control
- GenICam Compatible – XML based Control

Applications

- Semiconductor Inspection
- Printed Circuit Board Inspection
- Flat Panel Display Inspection
- Fluorescence Imaging

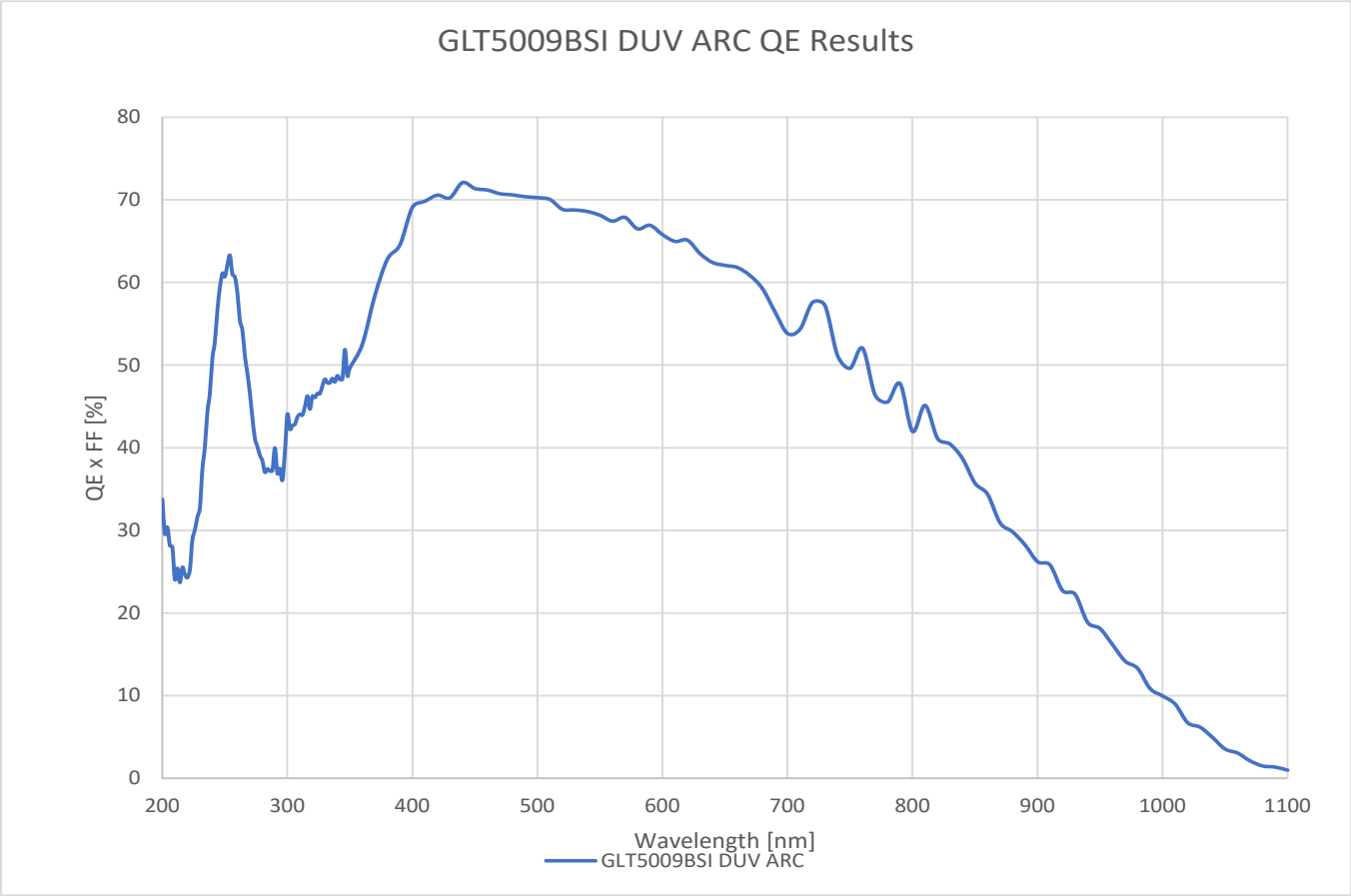
Specifications

Model	VTS-9K5X2-H550I-256-UV	
Photosensitive Bands	Single Band (No HDR)	Dual Band (HDR)
Resolution (H × V)	9056 × 256	9056 × (256 + 32)
Sensor	Back-Side Illuminated Image Sensor (GLT5009BSI), UV enhanced	
Interface	CoaXPress 2.0 (CXP-12, 4 channels)	
Pixel Size	5.0 μm × 5.0 μm	
Sensor Size (diagonal)	45.36 mm × 1.28 mm	45.36 mm × (1.28 + 0.16) mm
Max. Line Rate	8 bit: 543 kHz 10 bit: 435 kHz 12 bit: 300 kHz	8 bit: 271.5 kHz × 2 10 bit: 217.5 kHz × 2
Min. Line Rate	30 kHz	
Pixel Data Format	Mono 8/10/12 bit	Mono 8/10 bit
TDI Stages	4/8/16/32/64/96/128/160/192/224/240/248/252/256	
	OFF	2/4/8/16/24/28/30/32
Trigger Synchronization	Free-Run, External or CoaXPress 2.0	
Throughput	4.9 Gpixels	
Gamma Correction	User Defined Lookup Table (LUT)	
Black Level Control	-256 ~ 255 at 8 bit	
Gain Control	Analog Gain	2.0× ~ 8.0×
	Digital Gain	1.0× ~ 32.0×
Lens Mount	M58 × 0.75 mm	
Dimension / Weight	90 mm × 90 mm × 80 mm / 800 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. 22.0W / Max. 25.0W
	PoCXP	24 V DC, Minimum of Two PoCXP Cables Required
Compliance	CE, FCC, KC	
API SDK	Viewworks Imaging Solution 7.X	

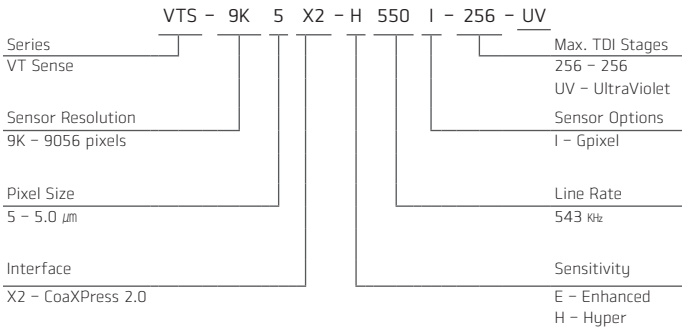
VT S-9K5X2-H550I-256-UV

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Quantum Efficiency



Ordering Scheme



Connector Specification

