

9K Line Scan BSI TDI Camera

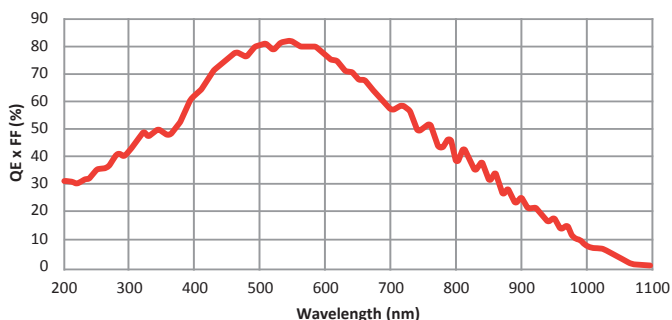
Dhyana 9KTDI

TUCSEN

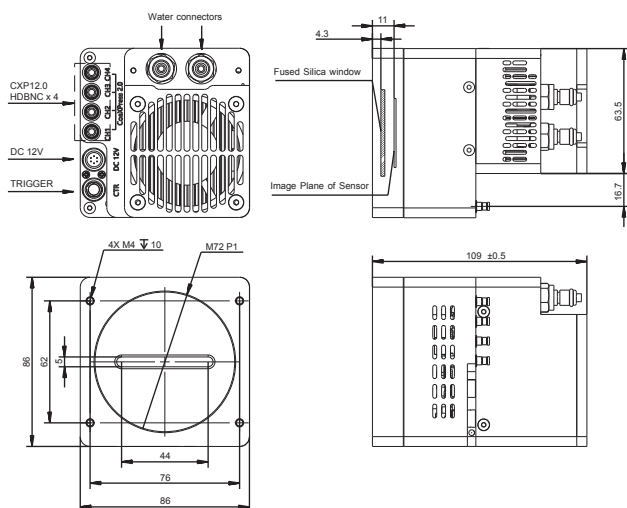


Product Advantages

- Backside-illuminated TDI technology
- 300kHz@12bit
- PRNU/DSNU pixel correction
- Air & Liquid cooling
- Compatible CoaXPress and GenICam 2.0 standard



Product Structure



Specifications

Model	Dhyana 9KTDI
Sensor model	BSI sensor
Color/Mono	Mono
Effective area	45.36mm x 1.28mm
Resolution	9072x256
Pixel size	5μm x 5μm
QE	82%@550nm; 50%@350nm; 38%@800nm
Operation Mode	TDI/Area
TDI Stage	4/8/16/32/64/128/192/256
Scan Direction	Forward/Reverse/Trigger Control
CTE	≥0.99993
Data Bit Depth	12bit, 10bit, 8bit
Full-Well capacity	15.5ke-@12bit; 14ke-@10bit
Dynamic Range	68.7dB@12bit; 63.6dB@10bit
Max. Line Rate	300kHz@12bit; 345kHz@10bit; 510kHz@8bit
Readout noise	7.2e-@12bit; 11.4e-@10bit
DSNU	1.5e-@12bit; 3.5e-@10bit
PRNU	0.3%
Cooling Method	Air & Liquid cooling
Cooling temperature	40°C below ambient
Dark Current	950e-/p/s@Chip temperature 10°C
Binning	1x1; 2x1; 4x1; 8x1
ROI	Support
Trigger Mode	Trigger Input, Scan Direction Input
Output Trigger Signals	Strobe out
Trigger Interface	HR10A-7R-4S
TimeStamp Accuracy	8 ns
Gain	Analog Gain: x2 ~ x8; Digital Gain: x0.5 ~ x10
Data Interface	CoaXPress 2.0 (CXP-12)
Optical Interface	M72
Power Supply	12V/8A
Power Consumption	<60W
Dimensions	86mm x 86mm x 109mm
Weight	1100g
Software	Samplepro/Matlab
SDK	GenICam™
Operating System	Windows/Linux
Certification	CE/RoHS
Operating Environment	Temperature 0~40°C/Humidity 0~90%

Tucsen Photonics Co., Ltd.

CHRONIX

クロニクス株式会社 〒163-0023 東京都新宿区西新宿3-2-11 新宿三井ビルディング2号館904
Email. sales@chronix.co.jp Tel. 03-5322-7191 (代) Fax. 03-5322-7790 <https://www.chronix.co.jp>

