

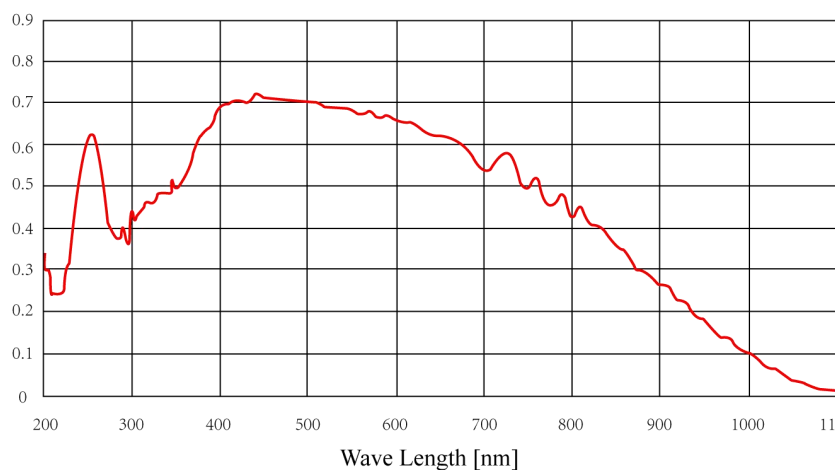
TPH9KCXP12-530KU256



Application Area

- FPD process, large size glass inspection
- High density PCB process, appearance inspection
- Wafer surface, chip packaging and other semiconductor process inspection
- Biological imaging, scientific experiments, etc

Spectral Response



Main Features

- Resolution: 9072x256
- Pixel Size: 5um x 5um
- Backshot CMOS Sensor
- Maximum Line Rate: 530kHz
- Area Mode Minimum Exposure Time: 3us, Exposure Time Step: 0.005us
- Pixel Format: 8/10/12bit
- High Sensitivity and Low Noise

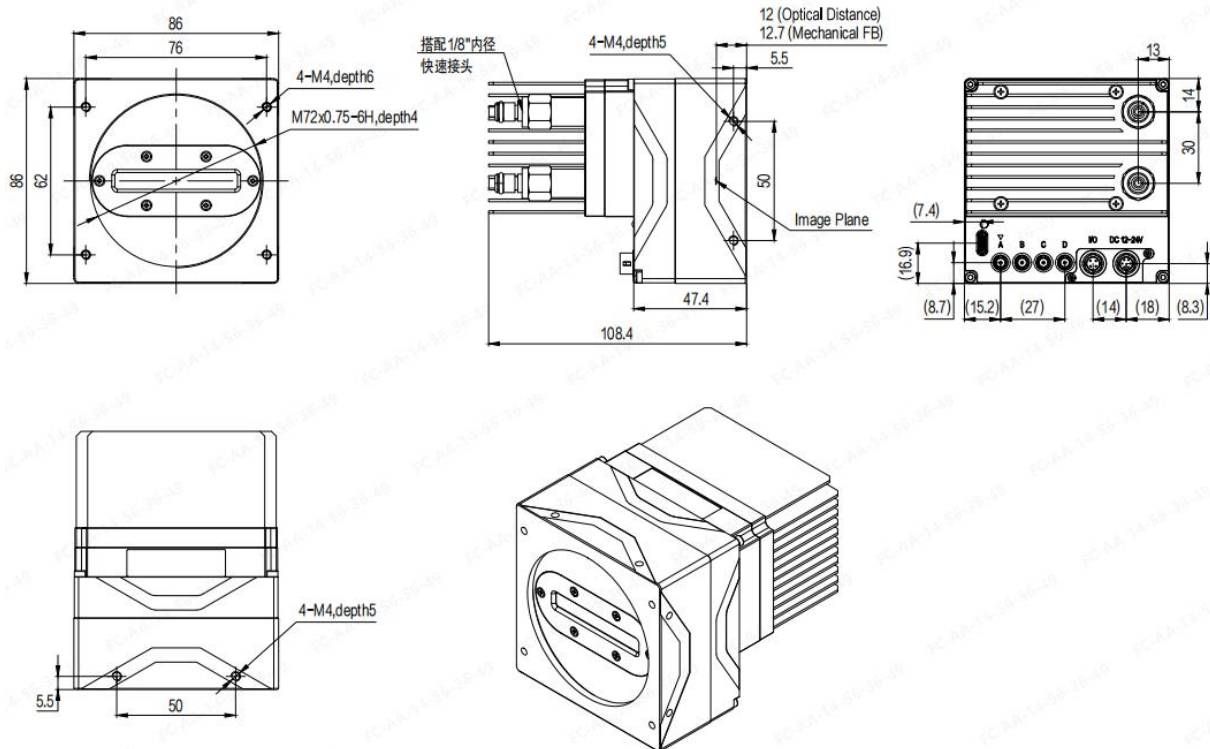
Main Functions	☐
ROI	√
Binning	√
Flipping	√
Test Image	√
Scan Direction	√
Area Mode	√
Trigger Control	√
Trigger Signal Adjust	√
Analog Gain	√
Digital Gain&Offset	√
TDI	√
Defect Pixel Correction	√
LUT	√
Flat Field Correction	√
Parameter Set	√
Temperature Monitor	√



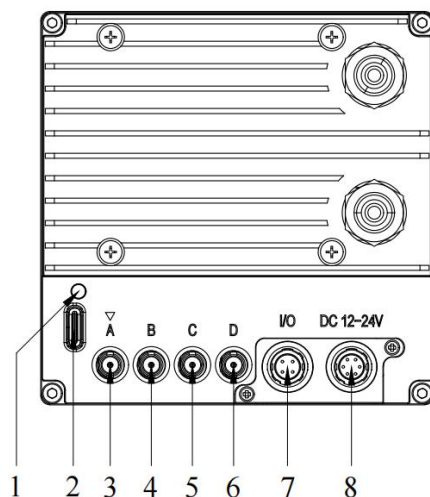
Product Specification

Model	TPH9KCXP12-530KU256
Product Name	9K 256 stage ultraviolet TDI line scan camera
Resolution	9072 x 256
Pixel Size	5um x 5um
Sensor Type	Backshot CMOS
Image Type	Monochrome
Optical Size	45.36mm
Dynamic Range	≥65.1dB
SNR	41.8dB
Maximum Line Rate	529.4kHz@8bit, 422.5kHz@10bit, 300.0kHz@12bit
Data Format	8/10/12bit
Data Rate	4800MB/s
Exposure Control	Timed, Line rate control
Exposure Time	Line mode: Follow line rate Area mode: 3us~0.2s (step: 0.005us)
Trigger Mode	Free-Run, External Pulse
Trigger Signal	CXP signal, External IO signal
Analog Gain	x1/x2/x3/x4
Digital Gain	0.1~8
Data Interface	CoaXPress12
Lens Mount	M72 * 0.75
Power Connector	Hirose HR10A-7R-6PB(Male)
IO Connector	Hirose HR10A-7R-4PB(Male)
Power Supply	DC 12~24V(±10%) 3.5A
Power Consumption	26.6W
Mechanical Dimensions	86.0mm x 86.0mm x 108.4mm
Operation Temperature	0~55°C
Storage Temperature	-20~75°C
Product Weight	TBD

Mechanical Dimensions



Electrical Interface



Number	Interface Name
1	Status Indicator LED
2	Type-C Interface
3	CoaXPress Connection A (Master)
4	CoaXPress Connection B
5	CoaXPress Connection C
6	CoaXPress Connection D
7	IO Connector
8	Power Connector



Interface Definition

Power Connector Number	Signal	Description
1	VCC	Power Positive Pole
2	VCC	Power Positive Pole
3	VCC	Power Positive Pole
4	GND	Power Ground
5	GND	Power Ground
6	GND	Power Ground

IO Connector Number	Signal	Description
1	Line1+	Trigger Input Signal1 Positive Pole
2	Line1-	Trigger Input Signal1 Negative Pole
3	Line2_GND	Trigger Input Signal2 Ground
4	Line2+	Trigger Input Signal2 Positive Pole