

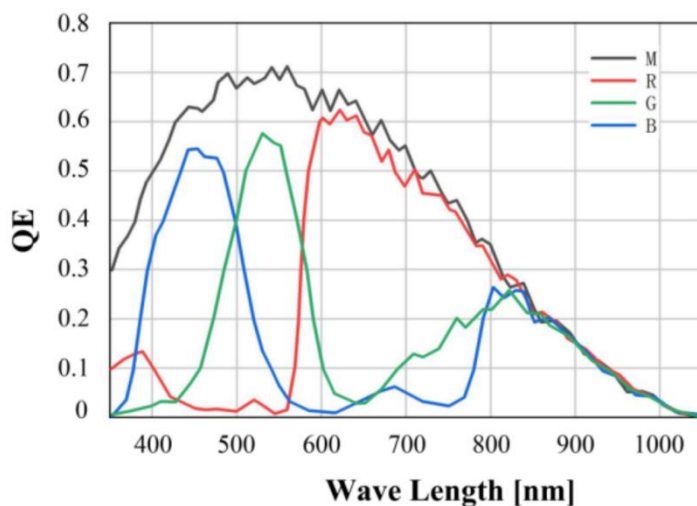
PR16KCXP-25KC2



Application Area

- PCB process, appearance inspection
- FPD module, mobile phone, tablet, computer and other 3C component testing
- Process testing in lithium battery and other new energy fields
- Wafer surface, chip packaging and other semiconductor process inspection
- Appearance inspection of metal, non-metal film, textile, printing and other rolls and sheets
- Steel plate, wood board and other sheet measurement and appearance inspection

Spectral Response



Main Features

- Resolution: 16384x6
- Pixel Size: 5um x 5um
- Global Shutter CMOS Sensor
- Maximum Line Rate: 25kHz
- Minimum Exposure Time: 2.2us, Exposure Time Step: 0.0125us
- Pixel Format: 8/10bit
- High Sensitivity and Low Noise

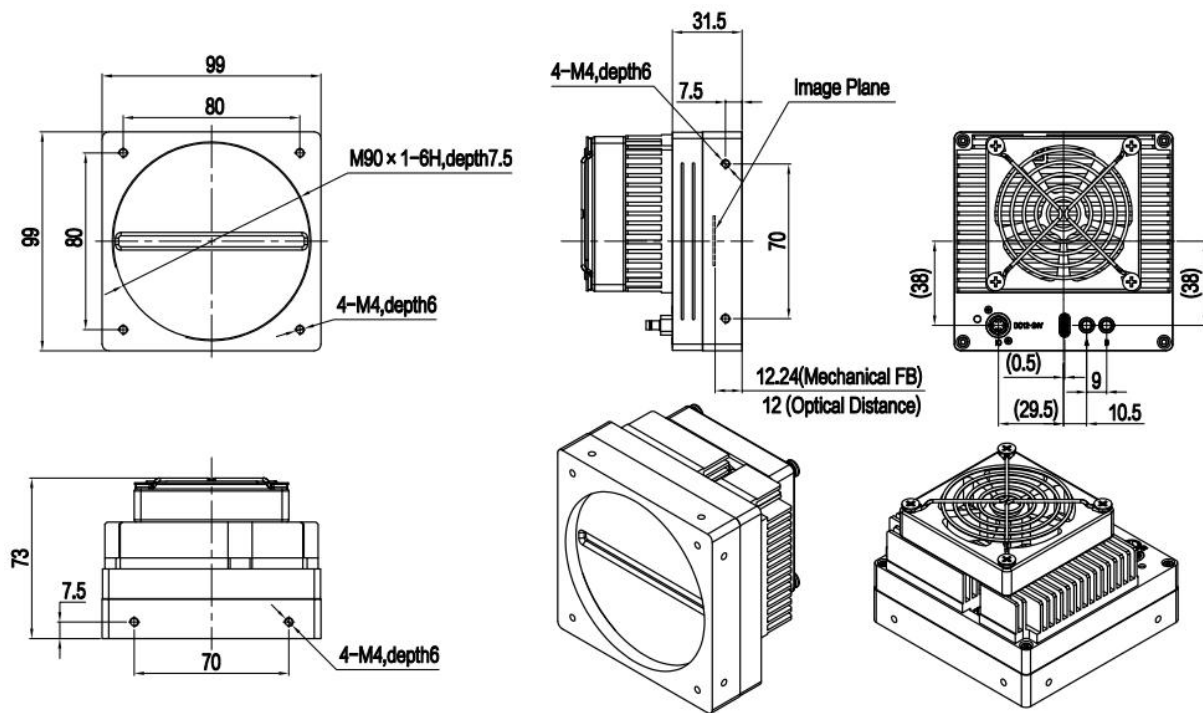
Main Functions	
ROI	√
Binning	√
Flipping	√
Test Image	√
Trigger Control	√
Scan Direction	√
Spatial Correction	√
Parallax Correction	√
Aspect Ratio	√
Multi-Light Frequency	√
Color Correction	√
Gain&Offset	√
White Balance	√
Black Level	√
LUT	√
Flat Field Correction	√
Parameter Set	√
Temperature Monitor	√



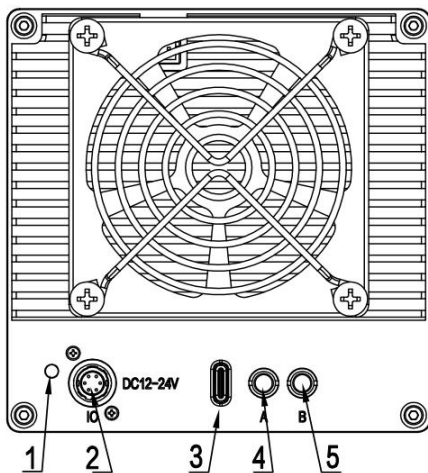
Product Specification

Model	PR16KCXP-25KC2
Product Name	16K color TDI line scan camera
Resolution	16384 x 6
Pixel Size	5um x 5um
Sensor Type	Global Shutter CMOS
Image Type	Color
Optical Size	81.92mm
Dynamic Range	≥64.2dB
SNR	43.1dB
Maximum Line Rate	24.9kHz@8bit, 19.9kHz@10bit
Data Format	RGB/BGR@8/10bit
Data Rate	1224MB/s
Exposure Control	Timed, Pulse width control
Exposure Time	2.2us~63997us (step: 0.0125us)
Trigger Mode	Line trigger control, Frame trigger control
Trigger Signal	CXP signal, External IO signal
Analog Gain	x1/x2/x4/x8
Digital Gain	0.1~8
Data Interface	CoaXPress
Lens Mount	M90 * 1
Power&IO Connector	Hirose HR10A-7R-6PB(Male)
Power Supply	DC 12~24V±10% 2.0A
Power Consumption	14.9W
Mechanical Dimensions	99.0mm x 99.0mm x 73.0mm
Operation Temperature	0~55°C
Storage Temperature	-20~75°C
Product Weight	844.6g

Mechanical Dimensions



Electrical Interface



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



Interface Definition

Power&IO Connector Number	Signal	Description
1	VCC	Power Positive Pole
2	VCC	Power Positive Pole
3	GeneralInput1	GeneralInput Signal1 Positive Pole
4	GeneralInput1_GND	GeneralInput Signal1 Ground
5	GND	Power Ground
6	GND	Power Ground