



PANTHER

Line Scan Camera

PA16KCXP-80KM

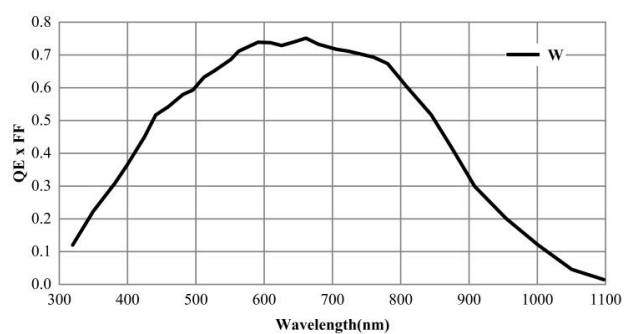
Features

- ◎ 16384 * 1 pixels, 3.5 μ m * 3.5 μ m
- ◎ Up to 80kHz Line Rate
- ◎ High sensitivity and Low noise
- ◎ Minimum exposure time 2 μ s, exposure time step 0.0117 μ s
- ◎ Analog Gain / Digital Gain Control
- ◎ Scanning direction user configurable
- ◎ ROI / FFC correction
- ◎ Real-time temperature monitoring
- ◎ Power supply: DC12V($\pm$ 10%)



Applications

- ◎ Automated optical inspection
- ◎ PCB / FPD / Wafer inspection
- ◎ High performance sorting systems
- ◎ Web inspection
- ◎ General purpose machine vision
- ◎ Materials grading and inspection systems



Spectral response

Specifications

Model	PA16KCXP-80KM
Image Sensor	Global Shutter CMOS
Image Mode	Mono
Optical Size	57.34 mm
Resolution	16384 * 1
Pixel Size	3.5μm * 3.5μm
Max Line Rate	80 kHz
Bit Depth	8/10 bit
Dynamic Range	≥66 dB
Data Rate	1638.4 MB/s
Trigger Mode	External trigger / Internal free run
Exposure Control	Pulse width or Program
Exposure Time	2μs-10s(Step:0.0117μs)
Analog Gain	1x/2x/4x/8x
Digital Gain	0.001x-8.000x
Lens Interface	M72 * 0.75
Data Interface	CoaXPress
Power Interface	Hirose HR10A-7R-6PB(Male)
Power Supply	DC12V±10% 3.5A
Power Dissipation	8.4 W
Dimensions	82.0mm(W) x 82.0mm(H) x 51.5mm(D)
Operating Temperature	0-65℃
Storage Temperature	-20-75℃

Mechanical Dimensions(mm)

