Raptor photonics

Hawk Indigo

2856 x 2848,Monochrome CMOS Camera



Key Features and Benefits

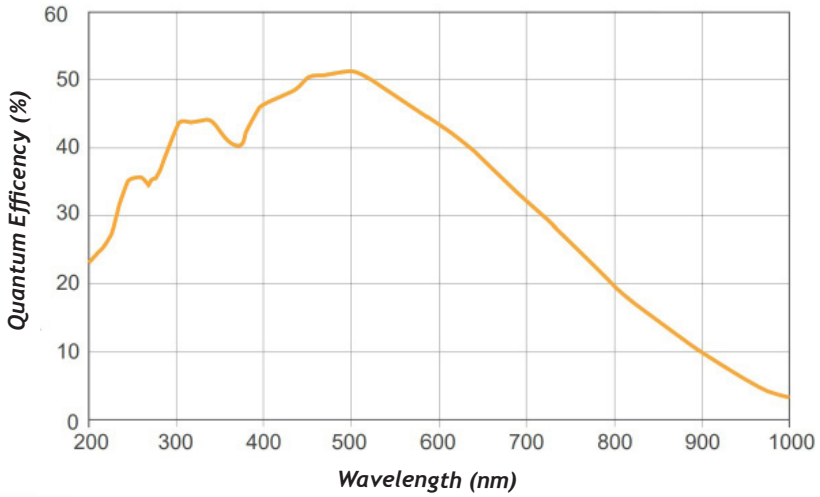
- **2856 x 2848 ,2.74µm pitch CMOS sensor**
  High resolution imaging from 0.2µm to 0.4µm
- **Monochrome CMOS sensor**
  Market leading Day & Night Video
- **On-board Automatic Light Control (ALC)**
  Real time, optimal video in all light conditions
- **Designed for harsh environments**
  High Shock, Vibration and extreme Temperature resistance
- **Global Shutter**
  15Hz full frame video, with no distortion (ideal for triggering)
- **Low Noise Electronics**
  No artifical noise added, optimising low light capability

Resolution	2848 x 2856
Frame Rate	15Hz
Dynamic Range	72dB
Peak QE	36% @ 250nm 52% @ 500nm

Specification for Hawk Indigo

Sensor	2/3" CMOS
Active Pixel	2856 (H) x 2848 (V)
Frame Rate	15Hz
Pixel Size	2.74µm x 2.74µm
Active Area (Diagnoal)	7.82 x 7.8 (11mm)
Full Well Capacity	9.6ke-
Min Integration Time	85µs
Spectral Response	200-1000nm
Peak Quantm Efficency	36% @ 250nm 52% @ 500nm
Non-Linearity	<1%
Total Power Consumption	<4W
Readout Noise	<2.6e-
Output Format	12 bit Camera Link (base configuration)
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connectors	SMA
Cooling	Uncooled
Lens Mount	CS-mount, back focus capability
Power Connector	Hirose part code HR10A-7R-4PB
Power Supply	12V DC ± 0.5V
Operating Temperature[1]	-20°C to +55°C
Storage Temperature	-40°C to +70°C
Dimensons (excluding standard mounting)[2]	42mm x 44mm x 53mm
Weight	132g

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**Data Supplied by Sensor Manufacturer , response above 400nm not guranteed*

Specification for Hawk Indigo

Camera

Hawk Indigo Digital Camera	HKI2848-CL
Hawk Indigo Digital PSU	RPL-HR4-K

Optional Accessories

Mini PC with XCAP STD and Frame Grabber	RPL-PC-mf2280
EPIX® EB1 Frame Grabber	RPL-EPIX-EB1
EPIX® XCAP STD Software	RPL-XCAP-STD
MDR-SDR CameraLink Cable (2m)[3]	RPL-MCL-CBL-2M

Lenses

Optical Visisble & CCTV day/night lenses[4]	RPL-xx-xxxx

Note* CS adaptor required for C- Mount lenses

Custom Options

- No CS Mount
- Board Level
- Extended operational temp -40°C to +75°C
- Flexi-rigid electronics to fit specfic EO Systems
- Customized mechanics

Applications

- Low-light Surveillance
- Airborne Surveillance
- Driver Vision Enhancement (DVE)
- Digital Night Vision

For detailed tehnical drawings, volume pricing or to set up a demo, contact us at sales@raptorphotonics.com

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