

Hawk Indigo

2/3" Resolution, Ultra Sensitive, UV optimised, Monochrome, Digital CMOS Camera
2848 x 2848 • 15Hz • Digital • Global Shutter • C Mount



PRELIMINARY



Key Features and Benefits

2/3" UV optimised CMOS Mono Camera

- **2848 x 2848, 2.74µm pitch CMOS technology**
Enables imaging from 0.2µm to 0.4µm
- **Latest Generation CMOS technology**
Enables ultimate sensitivity similar to EMCCD
- **Ultra compact and rugged**
Easy integration into any Electro-Optics platform
- **High UV QE: >36% @ 250nm**
Enables better quality image under low light conditions
- **Global shutter, progressive scan technology**
Enables real time, lag-free images at 15Hz full-frame

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

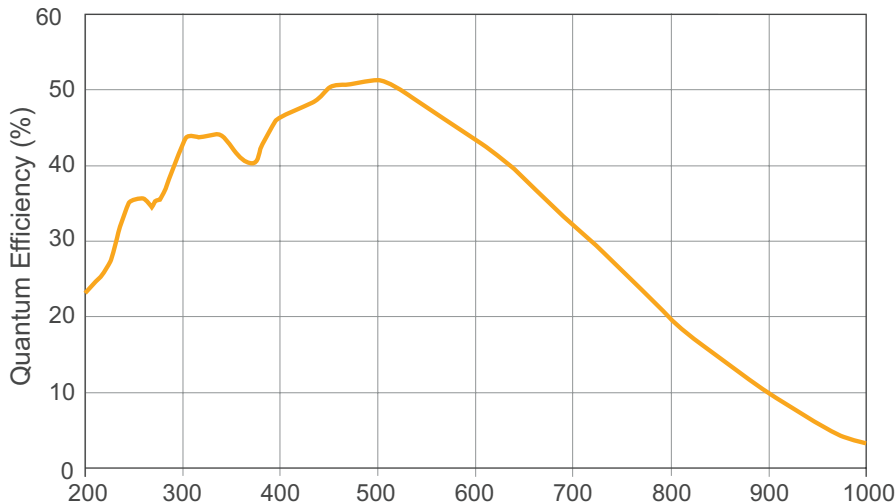
Specification for Hawk Indigo

Sensor Type	2/3" CMOS
Active Pixel	2848 x 2848
Frame Rate	15Hz
Pixel Size	2.74µm x 2.74µm
Active Area	7.80mm x 7.80mm (11.1mm)
Full Well Capacity	9ke-
Anti-blooming	Yes
Spectral Response	200-1000nm
Peak Quantum Efficiency	36% @ 250nm 52% @ 500nm
Non-Linearity	<1%
Total Power Consumption	<4W
Readout Noise	<3e-
Output Format	12 bit Camera Link (base configuration)
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connector	SMA type
Cooling	Uncooled
Lens Mount	C-mount, back focus capability
Power Connector	Hirose part code HR10A-7R-4PB
Power Supply	12V DC ±10%
Operating Temperature Range ¹	-20°C to +55°C
Storage Temperature Range	-40°C to +70°C
Dimensions (L*W*H) ²	TBD
Weight (excluding lens)	TBD

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Demo is available on request. Pricing AOR subject to volumes.

Quantum Efficiency



Ordering Information

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-EL1
EPIX® EB1 frame grabber	RPL-EPIX-EB1
EPIX® XCAP software	RPL-XCAP-STD
Camera Link Cable (2m) ³	RPL-CL-CBL-2M

Lenses

Optical Visible & CCTV day/night lenses ⁴	RPL-xx-xxxx
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Note 1: Extended operating temperature range on request.

Note 2: Dimensions include all connector parts on the camera interface.

Note 3: Longer Camera Link cable available.

Note 4: Please consult us to check our range of lenses.

Custom Options

- No -Mount
- Board Level
- Extended operational temperature -40°C to +75°C
- Flexi-rigid electronics to fit specific EO systems
- Customized mechanics
- Digital video output eg HD-SDI

Detailed technical drawings can be downloaded at www.raptorphotonics.com

Applications

- Ground Based Surveillance
- Airborne / Space Surveillance
- Situational Awareness
- Embedded Vision
- Plastics / PET Semiconductor Inspection

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