

# Hawk Indigo

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

The Hawk Indigo camera has a UV optimised Sony based sensor. It offers high UV sensitivity of 36% at 250nm. It is ruggedised to withstand the harshest operating environments in airborne, space, surveillance, industrial and marine applications.

OEM only – minimum orders apply



PRELIMINARY



## Key Features and Benefits

*Ruggedised UV optimised CMOS 2/3" 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	<b>2848 x 2848</b>
Frame Rate	<b>15Hz</b>
Dynamic Range	<b>72dB</b>
Peak QE	<b>36% @ 250nm</b>

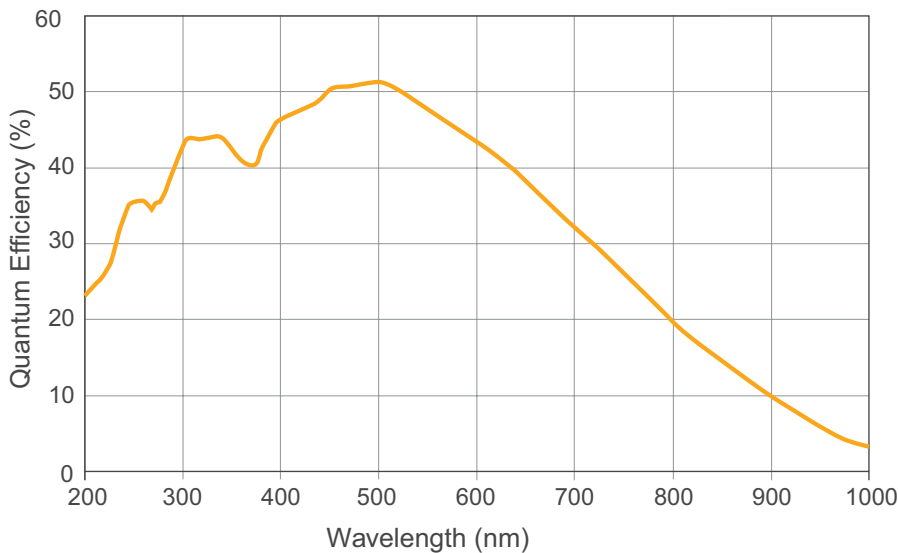
## Specification for Hawk Indigo

Sensor Type	2/3" CMOS
Active Pixel	2848 x 2848
Frame Rate	15Hz
Pixel Size	2.74µm x 2.74µm
Active Area	7.34mm x 5.62mm (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 <sup>1</sup>	-20°C to +55°C
Storage Temperature Range	-40°C to +70°C
Dimensions (L*W*H) <sup>2</sup>	TBD
Weight (excluding lens)	TBD

Raptor Photonics Limited reserves the right to change this document at any time without notice and disclaims liability for editorial, pictorial or typographical errors.

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

## Quantum Efficiency



\*Data supplied by sensor manufacturer

## Ordering Information

### Camera

Hawk Indigo Digital camera	HK12848-CL
Hawk 800 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) <sup>3</sup>	RPL-CL-CBL-2M

### Lenses

Optical Visible & CCTV day/night lenses <sup>4</sup>	RPL-xx-xxxx
--	-------------

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 C-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](http://www.raptorphotonics.com)

## Applications

### Surveillance

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

Document #: INHK12848-CL 0424