

HAWK 4096

4096 x 3008, Monochrome CMOS Camera



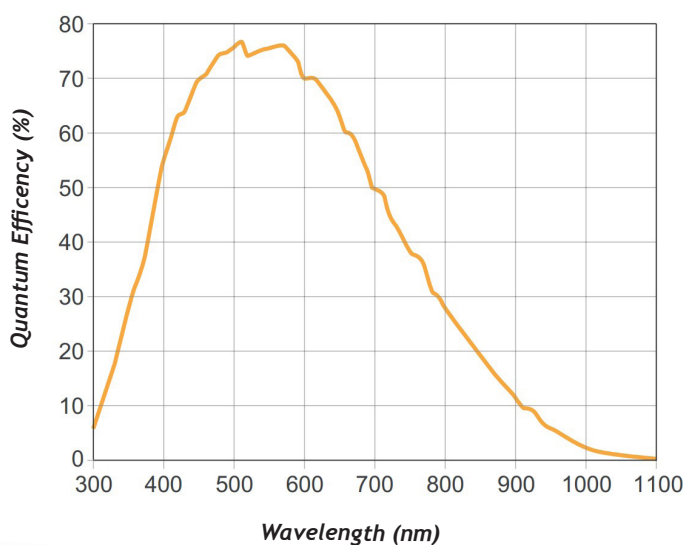
Key Features and Benefits

- **4096 x 3008 , 2.74 μ m pitch CMOS sensor**
High resolution imaging from 0.3 μ m to 1.1 μ m
- **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**
10Hz full frame video, with no distortion (ideal for triggering)
- **Low Noise Electronics**
No artificial noise added, optimising low light capability

Resolution	4096 x 3008
Frame Rate	10Hz
Dynamic Range	72dB
Peak QE	77% @ 510nm

Specification for Hawk 4096

Sensor	1/1.1" CMOS
Active Pixel	4096 x 3008
Frame Rate	10Hz
Pixel Size	2.74µm x 2.74µm
Active Area (Diagnoal)	11.22mm x 8.24mm (14mm)
Dynamic Range	72dB
Anti-blooming	Yes
Spectral Response	300-1100nm
Non-Linearity	<1%
Total Power Consumption	<4W
Minimum Illumination	< 200µlux
Output Format	12 bit Camera Link (2 tap)(base configuration)
Cooling	Uncooled
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connectors	SMA type
Lens Mount	CS mount, back focus capability
Power Connector	Hirose part code HR10A-7R-4PB
Power Supply	12V DC ±10%
Operating Temperature ¹	-20°C to +55°C
Storage Temperature	40°C to +70°C
Dimensons (excluding standard mounting) ²	48mm x 44mm x 53mm (incl connectors)
Weight	132g
Raptor Photonics Limited reserves the right to change this document at any time without notice and disclaims liability for editorial, pictorial or typographical errors. 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.	



*Data Supplied by Sensor Manufacturer

Specification for Hawk 4096

Camera

Hawk 4096 Digital Camera HK4096-CL

Hawk 4096 Digital PSU RPL-HR4-K

Optional Accessories

Mini PC with XCAP STD and Frame Grabber RPL-PC-mf2280

Thunderbolt Frame RPL-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 Visible & CCTV day/night lenses⁴ RPL-xx-xxxx

Custom Options

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

Applications

- Docking
- Navigation
- Inspection
- Hyperspectral Imaging
- Space Situational Awareness

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

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