

Hawk 800

816 x 624, Monochrome CMOS Camera



Key Features and Benefits

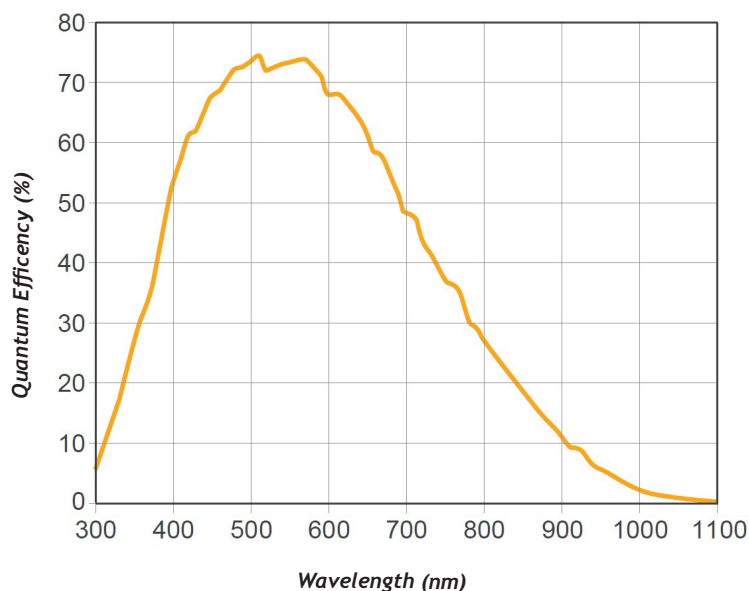
- **816 x 624 , 9 μ m pitch CMOS sensor**
VGA resolution imaging from 0.3 μ m to 1.1 μ m
- **Monochrome CMOS sensor**
Market leading Day & Night Video
- **On-board Automatic Light Control (ALC)**
Real time, optimal video in all light conditions
- **Designed for harsh environments**
High Shock, Vibration and extreme Temperature resistance
- **Global Shutter**
60Hz full frame video, with no distortion (ideal for triggering)
- **Low Noise Electronics**
No artificial noise added, optimising low light capability

Resolution	816 x 624
Frame Rate	60Hz
Dynamic Range	72dB
Peak QE	77% @ 510nm

Specification for Hawk 800 Camera Link

Sensor	1/1.7" CMOS
Active Pixel	816 x 624
Frame Rate	60Hz
Pixel Size	9.0µm x 9.0µm
Active Area (Diagnoal)	7.34mm x 5.62mm (9.24mm)
Dynamic Range	72dB
Anti-blooming	Yes
Spectral Response	300-1100nm
Peak Quantum Efficiency	77% @ 510nm 28% @ 800nm
Non-Linearity	<1%
Total Power Consumption	<5W
Readout Noise	3e-
Output Format	12 bit Camera Link (base configuration)
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connectors	SMA Type
Cooling	Uncooled
Lens Mount	C Mount, back focus capability
Power Connector	Hirose part code HR10A-7R-4PB
Power Supply	12V DC ± 0.5%
Operating Temperature ¹	-20°C to +55°C
Storage Temperature	-40°C to +70°C
Dimensons (excluding standard mounting) ²	48mm x 45mm x 43mm
Weight	124g

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 800

Camera

Hawk 800 Digital Camera	HK800-CL
Hawk 800 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 ³ (2m)	RPL-MCL-CBL-2M

Lenses

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

Custom Options

- No C-Mount, M42
- Board Level
- Extended operational temp -40°C to +75°C
- Flexi-rigid electronics to fit specific EO Systems
- Customized mechanics
- Digital video output eg. HD-SDI

Applications

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

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

Document#: INTAWK800-0425