Raptor photonics

Hawk 800 SDI

816 x 624, Monochrome CMOS Camera



HDSDi

Key Features and Benefits

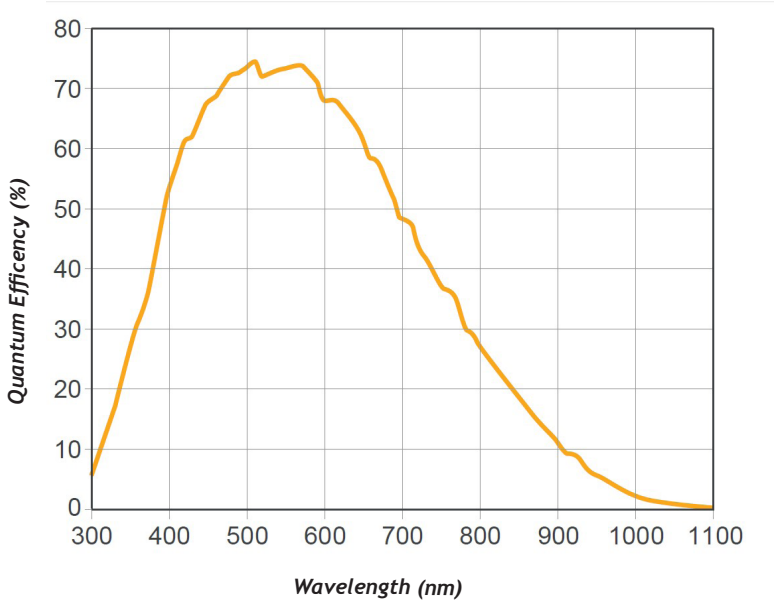
- **816 x 624 , 9µm pitch CMOS sensor**
  VGA resolution imaging from 0.3µm to 1.1µm
- **Monochrome CMOS sensor**
  Market leading Day & Night Video
- **On-board Automatic Light Control (ALC)**
  Real time, optimal video in all light conditions
- **Designed for harsh environments**
  High Shock, Vibration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

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

Specification for Hawk 800 SDI

Sensor	1/1.7" CMOS
Active Pixel/ Active in SDI	816 x 624/ 1280 x 720
Frame Rate	25/30Hz
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 Quantumn Efficency	77% @ 510nm 28% @ 800nm
Non-Linearity	<1%
Total Power Consumption	<5W
Readout Noise	3e-
Output Format	10 bit serial SMPTE292M 720p 25/30
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connectors	SMA Type
Cooling	Uncooled
Lens Mount	C Mount, back focus capability
Power Connector	A pin micro D connector - 380 - 009 - 113L001
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]	43mm x 45mm x 45mm
Weight	124g

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*Data Supplied by Sensor Manufacturer

Specification for Hawk 800

Camera

Hawk 800 Digital Camera	HK800-SD
Power & Comms Cable with D-type	RPL-SDPC-CBL-D-VERT
Power & Comms Cable w/o D-type	RPL-SDPC-CBL-FL-VERT

Lenses

Optical Visisble & CCTV day/night lenses[3]	RPL-xx-xxxx

Custom Options

- No C-Mount, M42
- Board Level
- Extended operational temp -40°C to +75°C
- Flexi-rigid electronics to fit specfic 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 tehnical drawings, volume pricing or to set up a demo, contact us at sales@raptorphotonics.com

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