Raptor photonics

Hawk 1920 SDI

1920 x 1080 Monochrome & Colour CMOS Camera



HDSDi

Key Features and Benefits

- **1944 x 1472, 4.5µm pitch CMOS sensor**
  Full HD resolution imaging from 0.3µm to 1.1µm
- **Monochrome or Colour 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**
  30Hz full frame video, with no distortion (ideal for triggering)
- **Low Noise Electronics**
  No artifical noise added, optimising low light capability

Resolution	1920 x 1080
Frame Rate	30Hz
Dynamic Range	72dB
Peak QE	68% @ 490nm

Specification for Hawk 1920 SDI

Sensor	2/3" CMOS
Active Pixel	1944 x 1472
Frame Rate	30Hz
Pixel Size	4.5µm x 4.5µm
Active Area (Diagnoal)	8.75mm x 6.62mm (11mm)
Dynamic Range	72dB
Anti-blooming	Yes
Spectral Response	300-1100nm
Non-Linearity	<1%
Total Power Consumption	<5W
Readout Noise	1.5e-
Output Format	10bit-smpte-2a2?, 1080p 30
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connectors	SMA Type
Cooling	Uncooled
Lens Mount	C Mount, back focus capability
Power Connector	380-009-113L001
Power Supply	12V DC ± 0.5%
Operating Temperature[2]	-20°C to +55°C
Storage Temperature	-40°C to +70°C
Dimensons (excluding standard mounting)[3]	43mm x 45mm x 45mm
Weight	120g

Raptor Photonics Limited reserves the right to change this document at any time without notice and disclaims liability for editorial, pictoral or typographical errors.Note 1: Peak QE quoted is for mono model only.Note 2: Extended operating temperature range on request.Note 3: Dimensions include all connector parts on thecamera interface.Note 4: Longer Camera Link cable available.Note 5: Please consult us to check our range of lenses

Specification for Hawk 1920

Camera

Hawk 1920 Digital SDI Camera	HK1920-SD-C
Power & Comms Cable with D-type	RPL-SDPC-CBL-D-VERT
Power & Comms Cable without D-type	RPL-SDPC-CBL-FL-VERT

Lenses

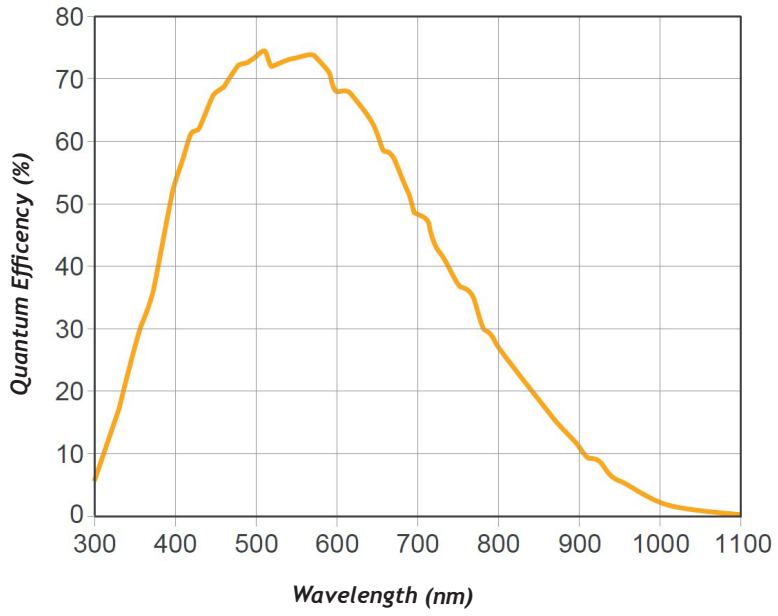
Optical Visisble & CCTV day/night lenses[5]	RPL-xx-xxxx

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



Data Supplied by Sensor Manufacturer

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

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