

Hawk 1920

1920 x 1080, Monochrome & Colour CMOS Camera



Key Features and Benefits

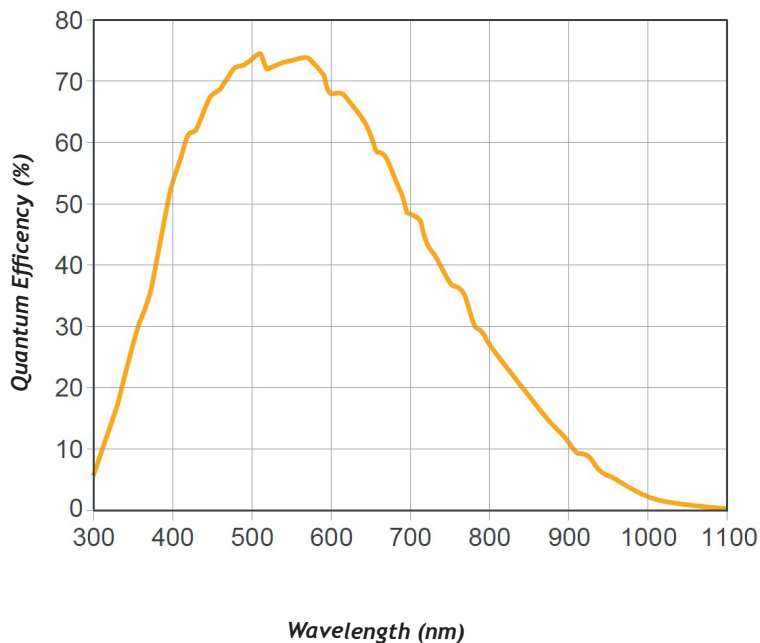
- **1920 x 1080, 4.5 μ m pitch CMOS sensor**
Full HD resolution imaging from 0.3 μ m to 1.1 μ m
- **Monochrome or Colour CMOS sensor**
Market leading Day & Night Video
- **On-board Automatic Light Control (ALC)**
Real time, optimal video in all light conditions
- **Designed for harsh environments**
High Shock, Vibration and extreme Temperature resistance
- **Global Shutter**
60Hz full frame video, with no distortion (ideal for triggering)
- **Low Noise Electronics**
No artificial noise added, optimising low light capability

Resolution	1920 x 1080
Frame Rate	60Hz
Dynamic Range	72dB
Peak QE	77% @ 510nm

Specification for Hawk 1920 Camera Link

Sensor	2/3" CMOS	
Active Pixel	1920 x 1080	
Frame Rate	60Hz (Max)	25Hz
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 (monochrome)	
Non-Linearity	<1%	
Total Power Consumption	<5W	
Peak QE ¹	75% @ 500nm	
Readout Noise	1.5e-	
Output Format	12 bit Camera Link (base configuration)	8 bit Camera link
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 ²	-20°C to +55°C	
Storage Temperature	-40°C to +70°C	
Dimensons (excluding standard mounting) ³	48mm x 43mm x 43mm	
Weight	115g	

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*Data Supplied by Sensor Manufacturer

Specification for Hawk 1920

Camera

Hawk 1920 Digital Camera	HK1920-CL
Hawk 1920 Digital PSU	RPL-HR4-K
Hawk 1920 Colour Digital Camera (25Hz)	HK1920-CL-C-P
Hawk 1920 Colour Digital Camera (30Hz)	HK1920-CL-C-N

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) ⁴	RPL-MCL-CBL-2M

Lenses

Optical Visisble & CCTV day/night lenses ⁵	RPL-xx-xxxx
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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 tehcnical drawings, volume pricing or to set up a demo, contact us at sales@raptorphotonics.com

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