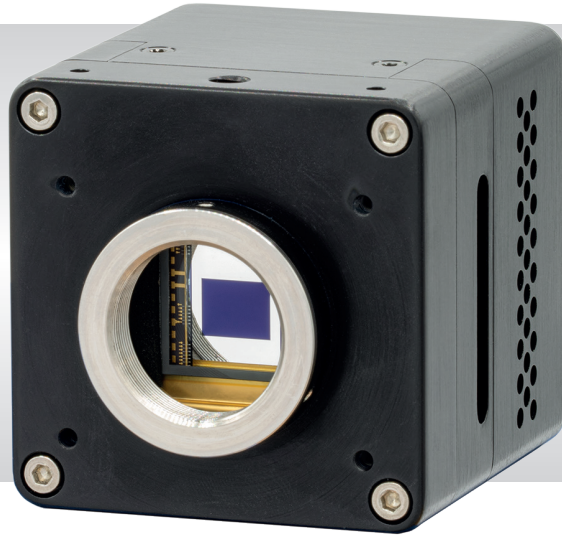


Hawk 252

High Resolution, Ultra Sensitive Digital EMCCD Camera
1280 x 1024 • 25Hz • Digital •



Key Features and Benefits

Cooled HD EMCCD Camera

- **1280 x 1024, 8 μ m pitch EMCCD technology**
Enables highest resolution imaging from 0.3 μ m to 1.1 μ m
- **Back Illuminated EMCCD technology**
Enables ultimate sensitivity imaging (<50 μ lux)
- **High QE: >95% @ 600nm**
GEN III image intensifier performance

Resolution	1280 x 1080
Frame Rate	25Hz
Dynamic Range	55dB
Peak QE	95% @ 600nm

Specification for Hawk 252

Sensor Type	1" Back Thinned Frame Transfer EMCCD
Active Pixel	1280 x 1024
Frame Rate	25Hz
Pixel Size	8µm x 8µm
Active Area	10.24 mm x 8.192 mm
Dynamic Range	55dB
Anti-blooming	Standard
Spectral Response	300-1100nm
Peak Quantum Efficiency	95% @ 600nm
Non-Linearity	<1%
Readout Noise	EM Gain ON: <0.01e- EM Gain OFF: <60e-
Total Power Consumption	<20W (TEC ON, FAN ON)
Minimum Illumination	< 50µlux
Output Format	12 bit Camera Link (base configuration)
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connector	SMA type
Cooling	Active, with fan
Lens Mount	C/mount, back focus capability
Power Connector	Hirose part code HR10A-7R-4PB
Power Supply	12V DC ±10%
Operating Temperature Range ¹	-20°C to +55°C
Storage Temperature Range	-40°C to +70°C
Dimensions (L*W*H) ²	73.13mm x 62.00mm x 62.00mm
Weight (excluding lens)	350g

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Ordering Information

Camera

Hawk EM252 Digital camera	HK252-CL
Hawk EM252 Digital PSU	RPL-HR4-K-S

Optional Accessories

Mini PC with XCAP Std and frame grabber	RPL-PC-mf2280
Thunderbolt frame grabber	RPL-mf2280
EPIX® EB1 frame grabber	RPL-EPIX-EB1
EPIX® XCAP software	RPL-XCAP-STD
Camera Link Cable (2m) ³	RPL-CL-CBL-2M

Lenses

Optical Visible & CCTV day/night lenses ⁴	RPL-xx-xxxx
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Note 1: Extended operating temperature range on request.

Note 2: Dimensions include all connector parts on the camera interface.

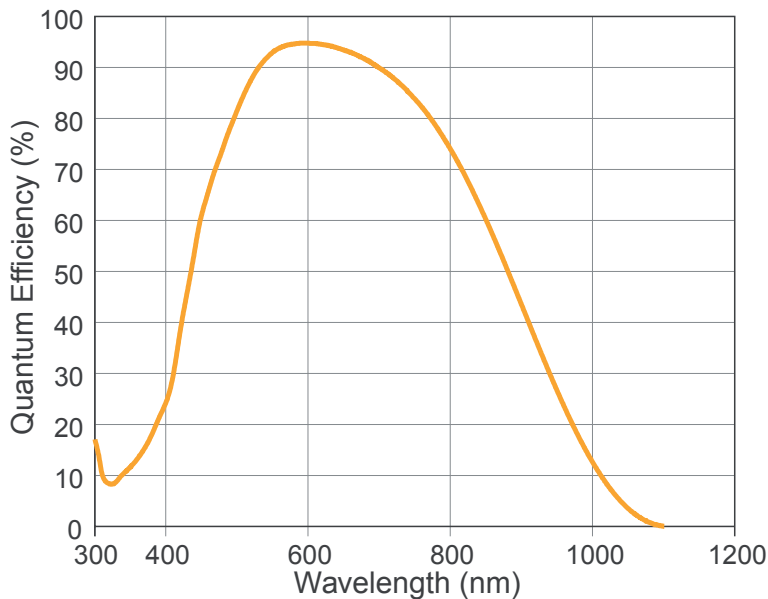
Note 3: Longer Camera Link cable available.

Note 4: Please consult us to check our range of lenses.

Demo is available on request.
Pricing AOR subject to volumes.

Detailed technical drawings
can be downloaded at
www.raptorphotonics.com

Quantum Efficiency



*Data supplied by sensor manufacturer

Applications

Surveillance

- Ground Based Surveillance
- Airborne Surveillance
- Situational Awareness

Scientific

- Astronomy
- Indirect X-ray
- Microscopy
- Fluorescence Imaging