

Hawk 252

High Resolution, Ultra Sensitive Digital EMCCD Camera
1280 x 1024 • 25/30Hz • Digital



Key Features and Benefits

Cooled HD EMCCD Camera

- **Back Illuminated EMCCD technology**
Enables ultimate sensitivity imaging (<math><50\mu\text{lux}</math>)
- **High QE: >95% @ 600nm**
GEN III image intensifier performance
- **Enhanced blue response from 180nm**
Low light UV with visible detection
- **Fan-less cooling**
Ideal for integration and discrete low light surveillance

Resolution	1280 x 1080
Frame Rate	25/30Hz
Dynamic Range	55dB
Peak QE	95% @ 600nm

PRELIMINARY

Specification for Hawk 252

Sensor Type	1" Back Thinned Frame Transfer EMCCD
Active Pixel	1280 x 1024
Frame Rate	25Hz / 30Hz
Pixel Size	8µm x 8µm
Active Area	10.24 mm x 8.192 mm
Dynamic Range	55dB
Anti-blooming	Standard
Spectral Response	180-1100nm
Non-Linearity	<1%
Readout Noise	<0.01 electrons with EM gain ON, <60 electrons with EM gain OFF
Total Power Consumption	<8W
Minimum Illumination	< 50µlux
Output Format	12 bit Cameralink (base configuration)
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connector	SMA type
Cooling	Active, no 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	62x62x52.8 (including C-mount)
Weight (excluding lens)	350g

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Ordering Information

Camera

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

Optional Accessories

EPIX(R) base CL card	RPL-EPIX-EB1
EPIX(R) XCAP software	RPL-XCAP-STD
CameraLink 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 camera interface

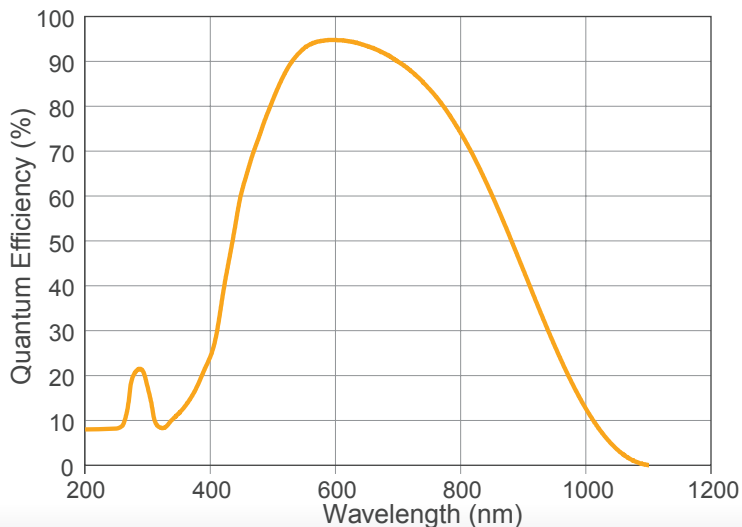
Note 3: Longer CL cable available

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



Applications

- Ground Based Surveillance
- Airborne Surveillance
- UV Imaging Blue Response
- Scientific Imaging
- Situational Awareness

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