

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

Raptor Photonics Limited reserves the right to change this document at any time without notice and disclaims liability for editorial, pictorial or typographical errors.

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
--	-------------

Note 1: Extended Operating Temperature range on request

Note 2: Dimensions include all connector parts on camera interface

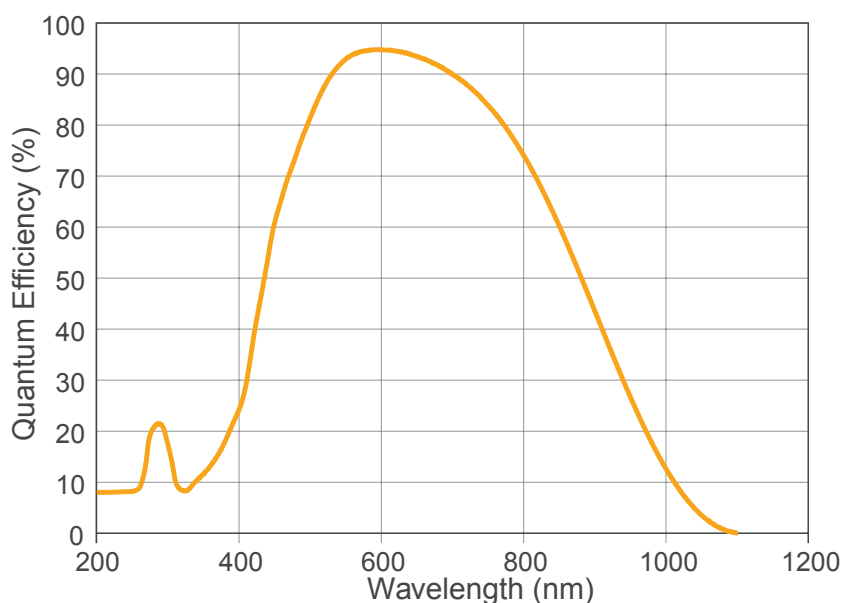
Note 3: Longer CL cable available

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

Document #: INHK252 419R1