Hawk 216 EMCCD

Ultra Sensitive Monochrome EMCCD camera
768 x 576 • 25/30Hz • Analog

Key Features and Benefits

Cooled VGA Surveillance UV EMCCD

- **Back Illuminated EMCCD technology**
  Enables ultimate sensitivity imaging (<50µlux)
- **High QE: >90% @ 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	**768 x 576**
Frame Rate	**25/30Hz**
Dynamic Range	**55dB**
Peak QE	**90% @ 500nm**

Raptor photonics

www.raptorphotonics.com

Specification for Hawk 216 EMCCD

Sensor	E2V Technologies CCD216	
Sensor Type	2/3" Full frame transfer	
	CCIR	EIA
Active Pixel	769 x 288	769 x 244
Frame Rate	25Hz	30Hz
Pixel Size	11.5µm x 23µm	11.5µm x 27µm
Active Area	8.832 mm x 6.624 mm	8.832 mm x 6.588mm
Iris Control	Video / DC	
Dynamic Range	55dB	
Anti-blooming	Standard	
Spectral Response	180-1100nm	
Total Power Consumption	<8W	
Minimum Illumination	< 50µlux	
Video Connector	SMA type	
Resolution	625lines	525 TV lines
Readout mode	Interlaced	
Cooling	Active, no fan	
Lens Mount	C/CS mount, Back focus capability	
Output Format	1.0Vp-p, 75Ω, ECIR or EIA	
Power Connector	9 pin Micro-D connector	
Power Supply	12V DC ±10%	
Operating Temperature Range	-20°C to +55°C	
Storage Temperature Range	-40°C to +70°C	
Dimensions	50mm x 45mm x 75mm (including CS-mount)	
Weight (excluding lens)	<230g	

Ordering Information

Camera

Hawk EM216 Analog camera - CCIR	HK216-AP
Hawk EM216 Analog camera - EIA	HK216-AN

Optional Accessories

EPIX(R) base notebook CL card	RPL-EPIX-ECB1-34
EPIX(R) base notebook CL card	RPL-EPIX-ECB1-54
Hawk PSU cable MDM to flying leads	RPL-NDN-CBL-B
Hawk PSU cable MDM to Jack + brick	RPL-MDM-CBL-J
EPIX(R) Analogue video card	RPL-EPIX-SV5

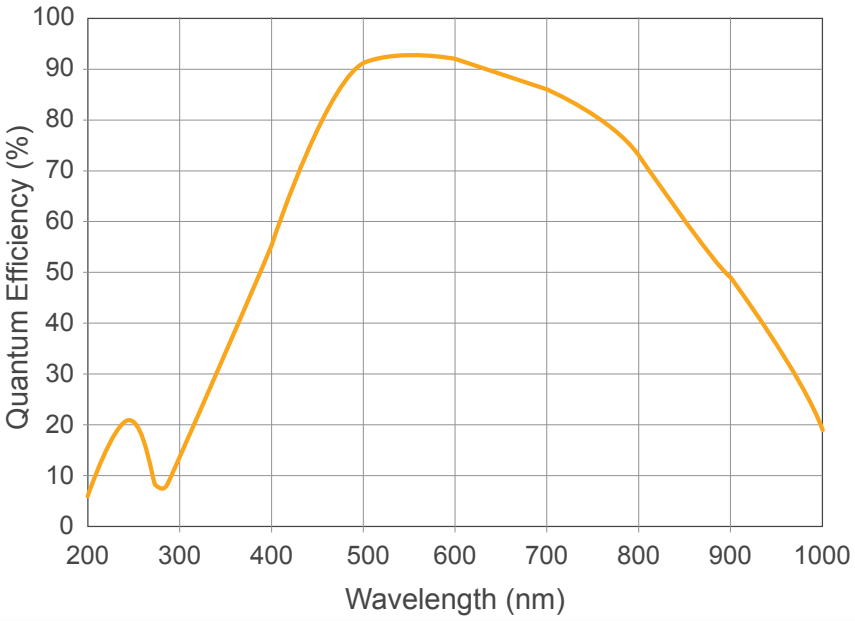
Lenses

Optical Visible & CCTV day/night lenses	RPL-xx-xxxx

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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