

Hawk 216-A

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



Analogue

Key Features and Benefits

Cooled VGA Surveillance UV EMCCD

- **Back Illuminated EMCCD technology**
Enables ultimate sensitivity imaging ($50\mu\text{lux}$)
- **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	44dB
Peak QE	90% @ 500nm

Specification for Hawk 216-A

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	44dB	
Anti-blooming	Standard	
Spectral Response	180-1100nm	
Peak Quantum Efficiency	>90% @550nm	
Total Power Consumption ¹	<8W (TEC ON, Steady State)	
Minimum Illumination	< 50µlux	
Video Connector	SMA type	
Resolution	625 TV lines	525 TV lines
Readout mode	Interlaced	
Cooling	Active, no fan	
Lens Mount	C 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 +60°C	
Dimensions (L*W*H) ²	75.05mm x 45.00mm x 50.00mm	
Weight (excluding lens)	<230g	

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Ordering Information

Camera

Hawk EM216 Analogue camera - CCIR	HK216-AP
Hawk EM216 Analogue camera - EIA	HK216-AN
Power Supply Cable	RPL-MDM-CBL-B

Optional Accessories

EPIX® Analogue video card	RPL-EPIX-SV5
Hawk PSU cable MDM to Jack + brick	RPL-MDM-CBL-J
Hawk PSU cable MDM to flying leads	RPL-MDM-CBL-F
Optical Lenses	RPL-xx-xxxx

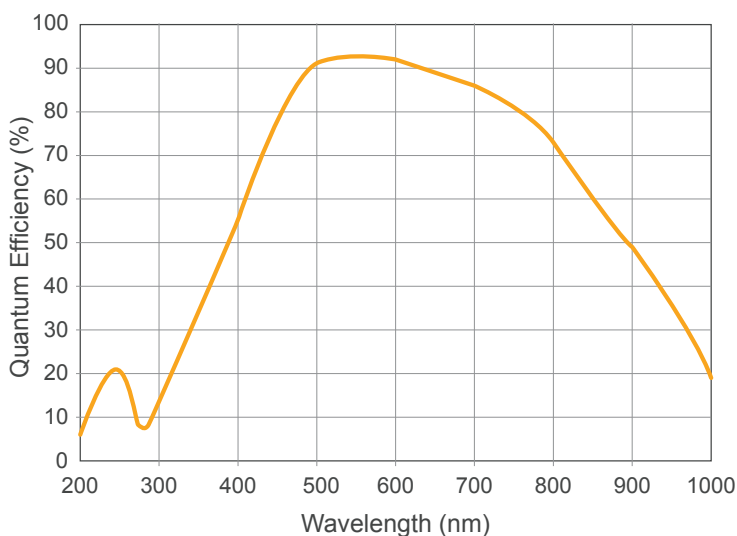
Note 1: Measured at a low ambient temperature with adequate heat sinking.

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

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

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

Quantum Efficiency



Applications

Surveillance

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