

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 (<math><50\mu\text{lux}</math>)
- **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 | |
| 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 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) ¹ | 75.05mm x 50.00mm x 45.00mm | |
| 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

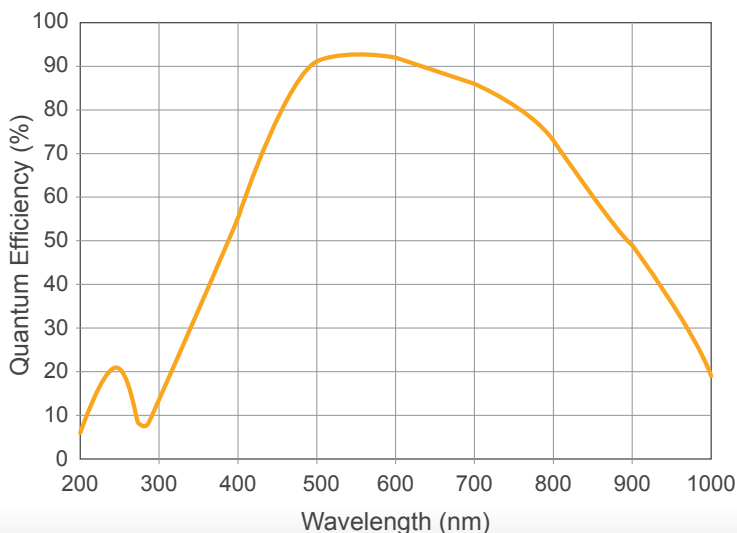
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|--|---------------|
| EPIX® Analogue video card | RPL-EPIX-SV5 |
| Hawk PSU cable MDM to Jack + brick RPL-MDM-CBL-J | RPL-MDM-CBL-J |
| Hawk PSU cable MDM to flying leads | RPL-MDM-CBL-F |
| Optical Lenses | RPL-xx-xxxx |

Note 1: Dimensions include all connector parts on 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

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

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