



Lens is for illustration purposes

The NEW Raptor Hawk HK-216 camera utilises black & white EM-CCD technology giving 4x the sensitivity of the Hawk HK-247 camera.

This permits high sensitivity imaging (<math><50 \mu\text{lux}</math> scene illumination) comparable to a GEN II Image Intensifier but also capable of 24 hour operation.

SeeSense are an official distributor for Raptor Photonics products and are able to provide full technical assistance backed directly by the manufacturer.

SeeSense also offer additional accessories and expert lens advice. Please contact us for full details of their range and for lens options for the Raptor HK-216.

Available in two versions:

Analogue CCIR HK216-AP
Analogue EIA HK216-AN

Please contact SeeSense for details and advice.

Specifications:

- Analogue Monochrome EM-CCD 2/3" camera
 - CCIR HK216-AP
 - EIA HK16-AN
- Back Illuminated B/W EM-CCD technology
 Enables high sensitivity imaging (<math><50 \mu\text{lux}</math>)
- High Quantum Efficiency >90% @ 600nm
 GEN III image intensifier performance
- Enhanced blue response from 180nm
 Perfect for underwater and UV detection
- Fan-less cooling
 Ideal for integration & discreet low light surveillance
- No Image Intensifier
- Optimum image sharpness in ALL conditions
- Compact (50 x 45 x 75mm) one-piece system
- Realtime imaging
- Simple operation

Raptor's EM-CCD camera cores are ideally suited for cutting edge day & night passive surveillance or any low light imaging application including:

- Ground Based Surveillance, Border Control, etc
- Airborne Surveillance
- Long Range Target Identification
- Underwater Imaging Enhanced
- UV Imaging Blue Response
- Scientific Spectral (Hyperspectral) Imaging, etc
- Industrial Low Light Imaging
- Ideal for OEM integration into:
 EO, UAV, Handheld or Robotic systems



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Specification Performance

Power Requirements	12 VDC \pm 10% Hirose connector
Power Consumption	Less than 8 watts
Image Sensor	2/3" Full Frame Transfer
Sensor Type	E2V Technologies CCD216
Active Pixels	CCIR 769 x 288 EIA 769 x 244
Resolution	769 x 576
Frame Rate	CCIR 25Hz EIA 30Hz
Active Area	CCIR 8.832 x 6.624mm EIA 8.832 x 6.588mm
Pixel Size	CCIR 11.5 μ m x 23 μ m EIA 11.5 μ m x 27 μ m
Resolution	CCIR 625 TV lines EIA 525 TV lines
Readout Mode	Interlaced
Cooling	Active, no fan
Antiblooming Protection	Standard
Minimum Illumination	< 50 μ lux
Dynamic Range	55 dB
Spectral Range	180 – 1100 nm
Video Signal Output	1.0Vp-p, 75 Ω , CCIR or EIA SMA connector with BNC adapter
Lens Mount	C/CS-mount 17.526mm / 12.5mm (in Air) Back focus capable
Iris Control	Video
Dimensions	50 x 45 x 75mm (Including CS-mount)
Weight	<230 grammes
Operating Temperature	-20 $^{\circ}$ C to + 55 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C to + 70 $^{\circ}$ C

Accessories

RPL-MDM-CBL-F	MDM connector with flying leads
RPL-MDM-CBL-J	MDM connector to Jack & brick
RPL-EPIX-SV5	Analogue to Video Frame Grabber

Power Connector

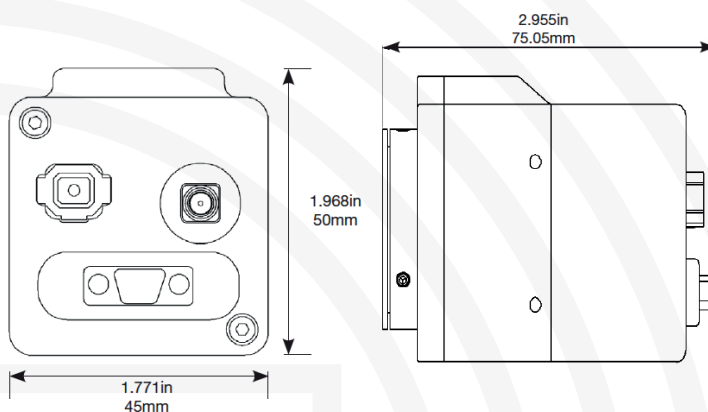
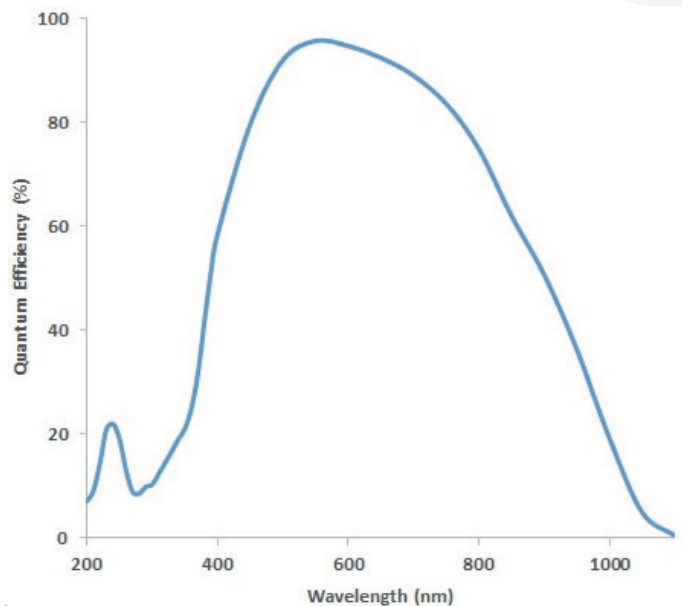
Hirose	HR10-7P-4S Available from SeeSense
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Lenses

SeeSense specialise in the specification and supply of C & CS-mount lenses. We recommend that you contact us if you require assistance.

Contact SeeSense for details and advice

Camera Quantum Efficiency @ 20 $^{\circ}$ C



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