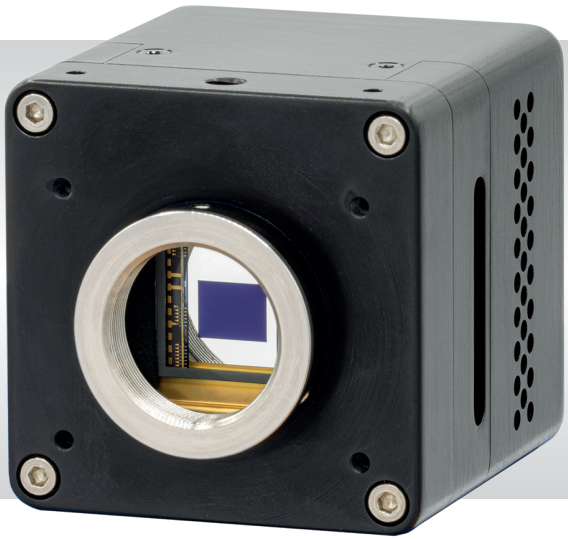
Hawk 252 Blue

High Resolution, Ultra Sensitive UV optimised Digital EMCCD Camera
1280 x 1024 • 25Hz • Digital •



Key Features and Benefits

Cooled HD EMCCD Camera

- **1280 x 1024, 8µm pitch EMCCD technology**
  Enables highest resolution imaging from 0.3µm to 1.1µm
- **65% QE at 254nm**
  Using a UV optimized window
- **Back Illuminated UV EMCCD technology**
  Offers a broadband response from the UV to the NIR

Resolution	**1280 x 1080**
Frame Rate	**25Hz**
Dynamic Range	**55dB**
Peak QE	**65% QE @ 254nm**

Raptor photonics

www.raptorphotonics.com

Specification for Hawk 252 Blue

Sensor Type	1" Back Thinned Frame Transfer EMCCD
Active Pixel	1280 x 1024
Frame Rate	25Hz
Pixel Size	8µm x 8µm
Active Area	10.24 mm x 8.192 mm
Dynamic Range	55dB
Anti-blooming	Standard
Spectral Response	254-1050nm
Peak Quantum Efficiency	65% @ 254nm
Non-Linearity	<1%
Readout Noise	EM Gain ON: <0.01e- EM Gain OFF: <60e-
Total Power Consumption	<20W (TEC ON, FAN ON)
Minimum Illumination	< 50µlux
Output Format	12 bit Camera Link (base configuration)
Synchronization	Trigger In & OUT - TTL compatible
Trigger Connector	SMA type
Cooling	Active, with 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]	73.13mm x 62.00mm x 62.00mm
Weight (excluding lens)	350g

Ordering Information

Camera

Hawk EM252 Blue Digital camera	HK252UV-CL
Hawk EM252 Digital PSU	RPL-HR4-K-S

Optional Accessories

Mini PC with XCAP Std and frame grabber	RPL-PC-mf2280
Thunderbolt frame grabber	RPL-mf2280
EPIX® EB1 frame grabber	RPL-EPIX-EB1
EPIX® XCAP software	RPL-XCAP-STD
Camera Link Cable (2m)[3]	RPL-CL-CBL-2M

Lenses

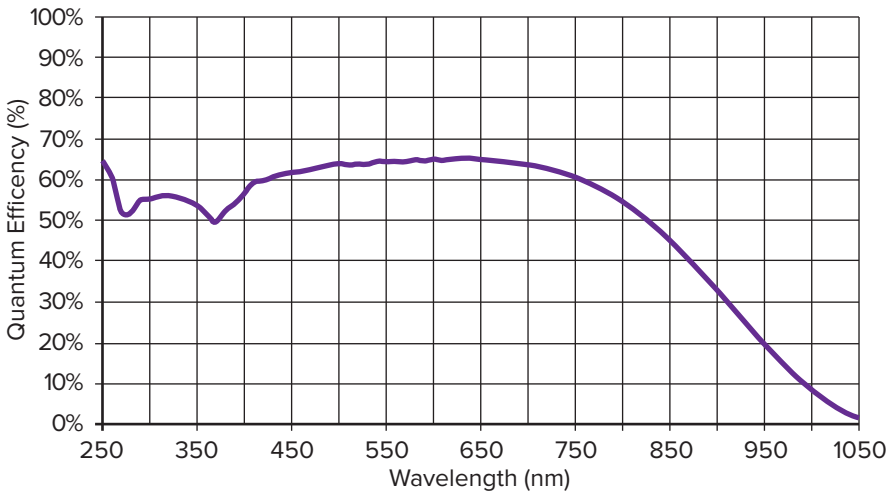
Optical Visible & CCTV day/night lenses[4]	RPL-xx-xxxx

Note 1: Extended operating temperature range on request.
Note 2: Dimensions include all connector parts on the camera interface.
Note 3: Longer Camera Link 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



*Data supplied by sensor manufacturer

Applications

Surveillance

- Ground Based Surveillance
- Airborne Surveillance
- Situational Awareness

Scientific

- Astronomy
- Forensic Imaging
- Microscopy
- Fluorescence Imaging

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