Hawk 252 Blue

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





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 Ra	inge 55dB
Peak QE	65% QE @ 254nm



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

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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 RPL-PC-mf2280

frame grabber

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 RPL-xx-xxxx

lenses4

Note 1: Extended operating temperature range on request.

Note 2: Dimensions include all connector parts on the

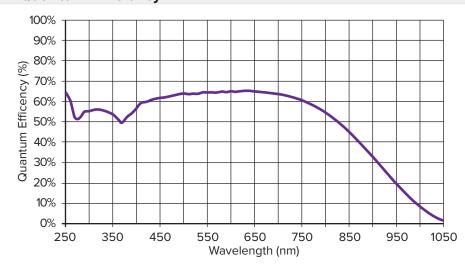
Note 3: Longer Camera Link cable available.

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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