

Condor OEM

Intensified Gen II CCD, Gated, High Sensitivity, Digital ICCD camera
1024 x 1024 • 13 μ m x 13 μ m • <18e- readout noise



PRELIMINARY



Key Features and Benefits

The World's first OEM ICCD

- **Rugged, compact and optimised for best results**
Made for OEM integration
- **1024 x 1024, 13 μ m pitch CCD**
Enables high resolution imaging and spectroscopy
- **True optical gating**
10ns time-resolution for accurate experiments
- **Fibre-Optic Coupling**
Highest throughput with no vignetting
- **High QE Gen 2 image intensifiers**
Superior photon capture, with peak QE up to 32% at 270nm

Specification for Condor OEM

Camera Specifications	
CCD	e2v 47-10
CCD Active Area	13.3 x 13.3 mm
Active Pixels	1024 x 1024
ADC	14 bit, 1 MHz/2.5MHz/3.3MHz
Frame Rate (full frame)	0.9 fps
Spectral rates (FVB)	125 sps
Multi track mode	x10 user defined regions
Read noise @ 1MHz	<18 electrons (12 electrons typical)
Dark current (e/p/s)	<5 @ -10°C
Minimum optical gate width (ns)	10
Minimum cooling temperature	-10C with air
Digital Output Format	14 bit Camera Link (base configuration)
External trigger	Single trigger input for sensor and gate
Power Supply	12 V DC \pm 10 %
Dimensions (L*W*H) mm	162 x 76 x 103
Total Power Consumption	< 24 W (TEC ON, Steady State)
Operating Case Temperature	-20 °C to +55 °C *
Gen 2 Image Intensifiers	
Input Window	Quartz
Photocathode type	Hi-QE UV / Broadband
Gate pulse delay	Adjustable from 0 ns to 1 ms in 5 ns steps
Gate pulse width	Adjustable from 10 ns to 1 ms in 5 ns steps
Direct gate	TTL input for exact external control

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 * May not be able to meet specification at +55 C but will still be operational
 ** For Photonis Hi-QE UV Photocathode

Ordering Information

Camera

Condor 4710 ICCD, 18mm UV	CO4710-18UV-3M-CL
Condor 4710 ICCD, 18mm Broadband	CO4710-18BD-3M-CL
Power Supply Cable	RPL-HR4-K

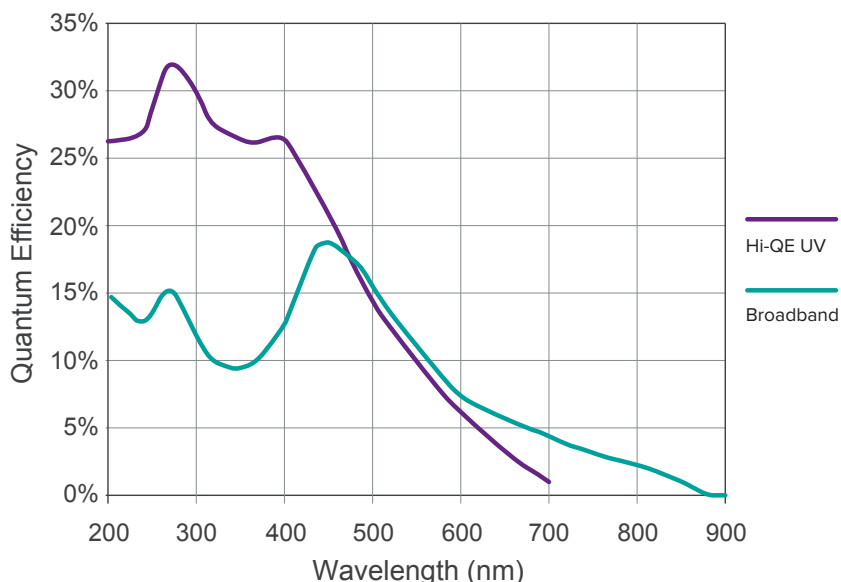
Custom Options

- Flange mounting options
- Wide selection of Gen II intensifiers
- TE Cooling options
- Extended operational temperature -40°C to +75°C
- Customized mechanics

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

- High resolution, narrowband spectroscopy
- Plasma studies & LIBS
- Time-resolved Fluorescence/ Photoluminescence
- Time-resolved Raman