FIMINARY

Condor OEM

Intensified Gen II CCD, Gated, High Sensitivity, Digital ICCD camera $1024 \times 1024 \cdot 13 \mu m \times 13 \mu m \cdot < 18e$ - readout noise





Key Features and Benefits

The World's first OEM ICCD

- Rugged, compact and optimised for best results Made for OEM integration
- 1024 x 1024, 13μm pitch CCD
 Enables high resolution imaging and spectroscopy
- True optical gating
 40ns 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 22% 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
Frame Rate (full frame)	0.9 fps
Spectral rates (FVB)	125 sps
Multi track mode	x10 user defined regions
Read noise @ 1MHz	<24 electrons (18 electrons typical)
Dark current (e/p/s)	<5 @-10°C
Minimum optical gate width (ns)	40
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 ± 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
Minimum QE at 200nm	17% **
Minimum QE at 270nm	22% **
Minimum QE at 400nm	17% **
Minimum optical gate width (ns)	40
Gate pulse delay	Adjustable from 0 ns to 1 ms in 5 ns steps
Gate pulse width	Adjustable from 40 ns to 1 ms in 5 ns steps
Direct gate	TTL input for exact external control

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Ordering Information

Camera

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

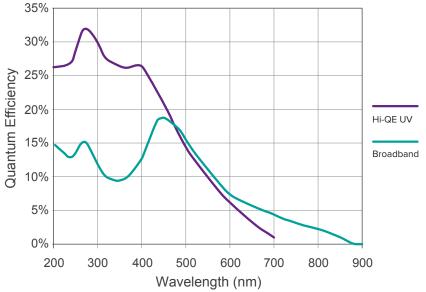
Custom Options

- Flange mounting options
- Wide selection of Gen II intensifiers
- TE Cooling options
- Extended operational temperature -40°C to +75°C
- Customized mechanics
- Digital video output eg HD-SDI

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



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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