

**e2V CCD231-42 Back Illuminated Scientific CCD Sensor
2048 x 2064 Pixels, Four Outputs**

SUMMARY SPECIFICATION

Number of pixels	2048(H) x 2064(V)
Pixel size	15 μm square
Image area	30.7 mm x 31.0 mm
Outputs	4
Package size	33.3 x 61.0 mm
Package format	Alumina PGA
Focal plane height, above base	2.75 mm
Connectors	Pin Grid Array (PGA)
Flatness	<20 μm (peak to valley)
Amplifier sensitivity	7 $\mu\text{V}/\text{e}^-$
Readout noise	5 e^- at 1 MHz 2.5 e^- at 50 kHz
Maximum data rate	3 MHz
Pixel Charge storage	300,000 e^-
Dark signal	3 $\text{e}^-/\text{pixel}/\text{hour}$ (at -100°C)

Quoted performance parameters given here are “typical” values.

