



## Aluma 814

<b>Imaging sensor</b>	ICX-814
<b>Peak QE</b>	77%
<b>Sensor size</b>	12.48 mm x 9.98 mm
<b>Imaging pixel array</b>	3388 x 2712
<b>Pixel size</b>	3.69 $\mu\text{m}$ (square)
<b>Pixel digitization rate</b>	8 MPix/sec
<b>Total pixel count</b>	9.1 million pixels
<b>Full well capacity</b>	15,000 e-
<b>Read noise</b>	4.5 e- typical
<b>Dark current e-/p/s at 0 C</b>	0.025 e-/p/s typical
<b>Anti-blooming</b>	Yes
<b>A/D converter</b>	16-bit
<b>Exposure duration minimum</b>	0.001 sec
<b>Full frame download</b>	~1 sec via USB
<b>Internal tracking sensor</b>	No
<b>Power</b>	12 VDC, 5A max
<b>Shutter</b>	Mechanical, even-illumination
<b>Temperature regulation</b>	Yes
<b>Cooling delta</b>	Typical maximum -40° to -45° C
<b>Dimensions</b>	4.5" x 4.5" x 4" (with handles)
<b>Weight</b>	2.2 lbs
<b>Computer interface</b>	USB2 / WiFi 802.11 b/g/n
<b>OS compatibility</b>	Windows 32 and 64 bit, Macintosh, Linux, iOS, Android

### Supported options:

<b>Adaptive optics</b>	Yes
<b>Filter wheel</b>	Yes
<b>Self-guiding filter wheel</b>	Yes
<b>Filter size</b>	36 mm / 1.25"
<b>Off-axis guiding</b>	Yes via FW8G-Aluma
<b>Remote guide head</b>	Yes