

Aluma 8300

The Aluma[®] 8300 has a Front-illuminated full frame 8 megapixel CCD with good quantum efficiency and low dark current.

Aluma is designed to operate either via USB 2.0 or WiFi 802.11 b/g/n. Fast low-noise readout. Aluma can be operated from a tablet or smartphone, or from a Windows, Macintosh, or Linux PC.

Multi-Platform Operation

Designed from the ground-up to support operation on any modern computing platform, Aluma is compatible with iOS, Android, Windows, Macintosh, and Linux. Fully-documented and supported drivers are available for all platforms, including ASCOM drivers. The Aluma camera inter-face specification is fully documented, supporting the development of fully custom interfaces.

Software Included

All Aluma models ship with MaxIm LT for Windows. In addition our new Aluma software for iOS and Android is under development. Aluma also supports third-party applications through ASCOM and native drivers.

Mechanical Shutter

The Aluma 8300 has an even illumination shutter for accurate photometric exposures. In addition the high reliability mechanical shutter facilitates accurate dark/bias calibration frames

Efficient 2-Stage TE cooling

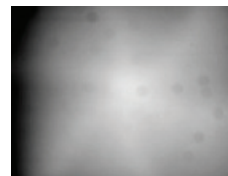
The Aluma uses two-stage TE cooling, twin variable-speed fans and a heat sink design optimized using computer thermal flow simulation. Cooling Delta up to Typical 45 °C with forced air.

External TTL trigger input and output

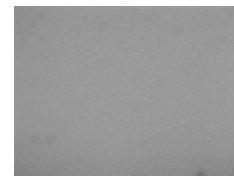
CCD	On-Semi KAF-8300
Array Size (pixels)	3326 X 2504
Pixel Size	5.54 x 5.54 microns
Imaging Area	17.96 mm x 13.52 mm
Dark Current at 0C	0.15 e-/p/s typical
Read Noise	10 e- typical
Linear Full Well (typical)	25,000 electrons
Pixel Digitization Rate	10 MPix/sec
Max QE	56%
Anti-blooming	Yes



- Optional Adaptive Optics
- Optional Self tracking unit
- Optional 8 position filter wheel
- Optional Secondary tracking Camera



Twilight Flat from Iris/
Leaf shutter



Twilight Flat from SBIG
Even-Illumination
Shutter