SBIG®
IMAGING SYSTEMS

Aluma 47-10

The Aluma 47-10 has a back-illuminated full frame 1 megapixel CCD with exceptionally high quantum efficiency.

Choice of Midband, Broadband or UV-enhanced coating.

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 interface specification is fully documented, supporting the development of fully custom applications.

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 47-10 has an even illumination shutter perfect for photometric applications. The high reliability mechanical shutter facilitates accurate dark/bias calibration frames.
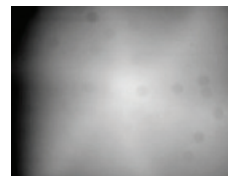
Efficient 2-Stage TE cooling
The Aluma uses two-stage TE cooling, twin variable-speed fans and a heat sink design optimized using computer thermal flow simulation. Cooling Delta up to 50C with forced air.

External TTL trigger input and output

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

CCD	E2V CCD47-10
Array Size (pixels)	1056 x 1027
Pixel Size	13 x 13 microns
Imaging Area	13.3 x 13.3 mm
Imaging Diagonal	18.8 mm
Read Noise	5 e-
Linear Full Well (typical)	100K electrons
Dynamic Range	83 dB
Max QE	90%
Anti-blooming	none

Twilight Flat from Iris / Leaf shutter

Twilight Flat from SBIG Even-Illumination Shutter