# Aluma 47-10

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|---|---|
| **Imaging sensor** | E2V 47-10 |
| **Peak QE** | 93% |
| **Sensor size** | 13.3 mm x 13.3 mm |
| **Imaging pixel array** | 1056 x 1027 |
| **Pixel size** | 13 μm (square) |
| **Pixel digitization rate** | 1 MPix/sec |
| **Total pixel count** | 1 million pixels |
| **Full well capacity** | 100,000 e- |
| **Read noise** | 5 e- typical |
| **Dark current e/p/s at -30 C** | < 0.2 e-/p/s typical |
| **Anti-blooming** | No |
| **A/D converter** | 16-bit |
| **Exposure duration minimum** | 0.1 sec |
| **Full frame download** | ~1 sec via USB |
| **Internal tracking sensor** | No |
| **Power** | 12 VDC, 5A max |
| **Shutter** | Mechanical, even-illumination |
| **Temperature regulation** | Yes |
| **Cooling delta** | Typical -50° C |
| **Dimensions** | 4.5″ x 4.5″ x 4″ (with handles) |
| **Weight** | 2.2 lbs |
| **Computer interface** | USB2 / WiFi 802.11 b/g/n |
| **OS compatibility** | Windows 32 and 64 bit, Macintosh, Linux, iOS, Android |

| **Supported options:** | |
|---|---|
| **Adaptive optics** | Yes |
| **Filter wheel** | Yes |
| **Self-guiding filter wheel** | Yes |
| **Filter size** | 36 mm / 1.25″ |
| **Off-axis guiding** | Yes via FW8G-Aluma |
| **Remote guide head** | Yes |