



# ALCM460

## 4K Bradley Remote Head System

### ALCM460 Specifications

Lens Mount	Micro 4/3
Sensor Type	CMOS 13.5 Megapixel
Spectral Coverage	RGB Bayer Pattern
Sensor Pixel Size	5.2 $\mu\text{m}$ x 5.2 $\mu\text{m}$
Number of Pixels	3840(H) x 2160(V)
Aspect	16:9
Frame Rate	4K: 60 fps HD: 240 fps
ADC Resolution	12 bit
SNR (F11, 2000 lux, 400%, 60p)	52 dB
Camera Focus	Auto / Manual
Exposure	Auto / Manual (Shutter Speed, Iris)
White Balance	Auto / Preset Scene
Test Pattern Output	Select Pattern / OFF
Interface Video Output	Single Wavelength-Division Multiplexed Fiber Optic
Data Recording	SD Card
Control	RS-232C
Power Requirements	12 ~ 15 V
Power Consumption	Module: 15 W With HDMI: 18 W With SDI: 22 W
Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 60°C

Bradley Engineering, designers of specialist and remote controlled cameras, have been working jointly with AltaSens, Inc. to design a new 4K remote camera system. The design is based upon Bradley's Cam-Ball camera head with its pan-tilt mechanism, and uses AltaSens's ALCM460 4K camera module using the AL41410C 4K CMOS image sensor.

### Key Features

- ◆ Complete integrated remote system
- ◆ Ruggedized pan tilt zoom head
- ◆ Open pan tilt zoom head available
- ◆ Remote control panels & accessories
- ◆ Fiber optics video output

In conjunction with AltaSens, Bradley will offer a new 4K Cam-Ball system, which is a ruggedized Pan Tilt Zoom camera with 99 pre-set positions that can be memorized and recalled. It has a lightweight, weather proof carbon fiber housing. An open pan tilt zoom head will also be available. All of the camera functions and movements can be controlled remotely, including the Pan, Tilt, Zoom, Iris, Focus and color balancing elements. All this is done using Bradley's Multi Function Controller 2 and remote control panel RCP3.



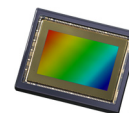
### AltaSens ALCM460 4K Camera Module

The ALCM460 is a heavyweight 4K camera engine in a lightweight package. Powered by the combination of the AltaSens AL41410C sensor with an advanced JVC KENWOOD image signal processor, the ALCM460 delivers HD through 4K resolutions at multiple frame rates, allowing customers to swiftly integrate 4K technology into their camera products for quick market release.



### AltaSens AL41410C 4K Sensor

The AL41410C is AltaSens' next generation Super-35 size image sensor. Its large, sensitive pixels and ability to capture 4096 x 2160 format images makes the AL41410C an extremely attractive sensor for producing 4K cinema in the latest Ultra HD (UHD) cameras. In addition, the sensor's ability to capture 1920 x 1080 Full HD at up to 240 fps is well suited for sports broadcast or special effects support where clear slow motion playback is vital. The sensor's native 4512 x 3008 resolution is operable to 50 fps.



#### For more information, contact:

AltaSens, Inc. at:  
[AltaSensSales@altasens.com](mailto:AltaSensSales@altasens.com)  
 4373 Park Terrace Drive  
 Westlake Village, CA 91361 USA  
 Tel: (818) 338-9446  
 Fax: (818) 338-9499  
 Web: [www.altasens.com](http://www.altasens.com)

Bradley Engineering, Ltd. at:  
[enquiries@bradeng.com](mailto:enquiries@bradeng.com)  
 Units 14-20 Setley Ridge Vineyard,  
 Lymington Road, Brockenhurst SO42 7UF  
 Tel: +44 (0)1590 622440  
 Fax: +44 (0)1590 624501  
 Web: [www.bradeng.com](http://www.bradeng.com)