



[PRODUCT LEAFLET](#)

[TECHNICAL SPECS](#)

[APPLICATION NOTE](#)

H-EM HR – an Image Streaming System for airborne applications

Applications

- High resolution landscape recording from high altitude (e.g. aerial views or similar)

Description and Specifications of components

The complete system consists of:

- Gigabit Ethernet cameras
- Airborne military controller for camera setup and data storage
- AOS PROMON streaming software

Unique features

This system - consisting of one or two high resolution cameras and an airborne computer - is able to stream image sequences to flash disks for hours.

Camera systems like the H-EM HR designed for airborne applications need an ultra-solid design and a structure to withstand the harsh environmental conditions of flight. This system can meet the big challenge of immunity to shock, vibration, changes of temperature and moisture.

H-EM HR is THE solution for long time landscape recordings in high resolution for aerial views or aerial reconnaissance.



H-EM - high resolution camera



H-EM Airborne - controller

Your local AOS partner::

IMAGING DYNAMICS, LLC
 734 207-8245
 email: idbillb@msn.com
 web: www.imaging-dynamics.com

Specifications are subject to change without prior notice – v01.2012



AOS Technologies AG, Taefernstrasse 20,
 CH-5405 Baden-Daettwil
 Tel. +41 (56) 483 3488, Fax + 41 (56) 483 3489
 info@aostechnologies.com
 www.aostechnologies.com

High resolution streaming camera

The high resolution camera does have the following specification:

Image resolution (standard)	4872 x 3248 pixels, mono or color
Pixel size	7.4um
Frame rate	4fps at full resolution
Bit depth	8-, 10- and 12bit
Data Interface	Gigabit Ethernet
Dimensions	68 x 68 x 92mm

Controller

The controller does have the following specification:

CPU	Low power embedded Core 2 Duo 2x 1.5 GHz with 4MB L2 Cache
RAM	2 GB DDR2 RAM
LAN	2x 10/100/1000 Base-T/TX support, full duplex
Image memory (mass storage device)	256GB SSD for data storage 16GB SSD for OS
Recording time	40min at full resolution (8bit) and speed (longer recording times on request)
Case	MIL housing
Power supply	18 - 48 VDC / 60 watts (incl. cameras)
UPS	built-in UPS for complete system operation incl. cameras for min. 10 minutes
Time code input	IRIG-B 122 time code input. IRIG-B time code will be stored together with the images.
Cooler fans	Fanless
Dimensons	304 x 234 x 75 mm
Environment	operating Temperature: -10° C to 50° C

AOS PROMON Software

Software to operate the streaming cameras. Easy to use interface with capability of storing multiple hours of image sequences (depending on camera resolution and framing speed).