AOS Technologies AG

H-EM HS Airborne High Speed Image Streaming System

PRODUCT LEAFLET | TECHNICAL SPECS | APPLICATION NOTE

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

Applications

- Long time high speed recording for aircraft and component testing.)

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 speed cameras and an airborne computer - is able to stream image sequences to flash disks for hours.

Camera systems like the H-EM HS 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 HS is THE solution for long time high speed recordings for aircraft and component testing.

H-EM - high speed camera (backplane with MIL-type connectors)

H-EM Airborne - controller

High speed streaming camera

The high speed camera has the following specifications:

Image resolution (standard)	1280 x 1024 pixels, monochrome
Pixel size	8.0um
Frame rate	1280 x 1024 @ 100fps 1280 x 720 @ 200fps 640 x 480 @ 500fps
Bit depth	8bit
Dynamic range	> 90dB with HDR algorithm
Data Interface	Gigabit Ethernet
Dimensions	approx. 65 x 55 x 75mm

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).

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

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