

AIRKNIGHT-HD4S



Serenity
HELICOPTERS

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HELICOPTERS



Flight Tour Industry

The original AirKnight-HD4S is a compact rugged HD video recorder designed for the touring industry, with a built-in four camera switcher. It records directly to removable media at resolutions up to 1080p60 (3G-SDI) with direct overlaid GNSS (GPS) and text fields, while storing KML and GPX files for video analysis using Google Earth and other GPS & Video synchronizaton software.

Applications

Flight Tours

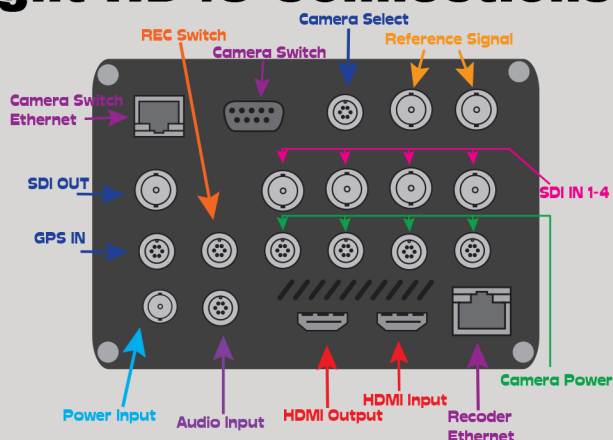
"I would like to thank Bad Wolf Technologies for an excellent product. We have been making helicopter videos for over 20 years, both in Hawaii. and the Grand Canyon. This is without a doubt the best product we have used. The picture quality and the ease of operation are great. Bad Wolf Technologies is very easy to work with, and their customer and technical support are fantastic."

Pat Martin, Director of Operations
Air Maui / Serenity Helicopters

Features

- Video standards from Composite CVBS NTSC/PAL to 1080p60 HD-SDI
- Self contained Battery UPS for fail-safe file closure
- Ethernet and WiFi Streaming
- Multi-Unit synced wireless or wired recording upto 16 units with AIRDOCK
- Target Location δ-CLL with Datatoys AIRBYTE Xi
- Optional wireless triggers
- Optional NVG Mode switch

AirKnight HD4S Connections



Bad Wolf Technologies is the original software / hardware developer and manufacturer of the AirKnight and Airboss Systems



BAD WOLFTM
TECHNOLOGIES

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Mequon, WI 53092
414-639-9085
www.datatoys.com

AIRKNIGHT-HD4S

SPECIFICATIONS

Video

SDI x 4	3G-SDI SMPTE 424M 1080p60/59.94/50 HD-SDI SMPTE 292M 1080i60 / p30 SD-SDI SMPTE 259M PAL/NTSC
HDMI x 1	V.1.4 1080p
COMPOSITE x 1	NTCE 720 x 480 PAL 720 x 576
RESOLUTION	MAX 1920 x 1200 60fps Progressive, Interlace
COMPRESSION	h.264 AVC HIGH, MAIN, BASELINE PROFILE MJPEG
BITRATE	32Kbps-16Mbps (h.264) 32Kbps-55Mbps (MJPEG)
FILE TYPE	.AVI

Audio

INPUT	STEREO L / R LINE LEVEL - AVIATION HEADSET SDI EMBEDDED, HDMI EMBEDDED
COMPRESSION	AAC 64Kbps - 128Kbps @ 32/44.1/48kHz G.711 64Kbps @ 8KHz
OUTPUT	STEREO L / R LINE LEVEL

Input/Output

TRIGGER	RECORD FRONT PANEL, REAR CONNECTOR OR WIRELESS WAY POINT REAR CONNECTOR OR WIRELESS
INDICATOR	FRONT - POWER, GPS, RECORD, STATUS REAR - ETHERNET

VIDEO SWITCHER

SWITCHER	FRONT PANEL - SWITCHER FOR 4 CAMERAS
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Data I/O

SERIAL	RS-232 - BAUD RATE 2400 - 115200bps
GNSS	GPS GNSS NMEA 0183 GPGGA/GPRMC/GPGSA/GPVTG parsed 1Hz AND 5Hz OVERLAY COORDINATES/SPEED/AMSL/TIME&DATE CONCURRENT KML & GPX FILES
USER TEXT	\$ASCII, TEXT1, TEXT2, TEXT3 <CR><LF>
STORAGE	SD/SDHC/SDXC (Class 6 or better) No Max Size USB 2.0

Power

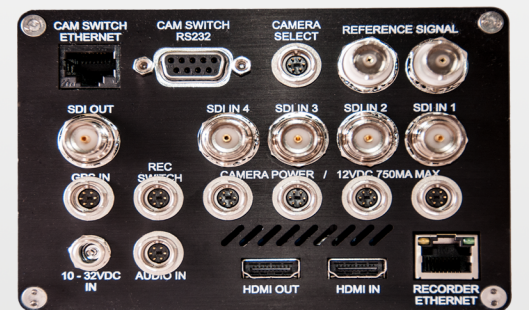
INPUT	12 - 34 VDC
WATTAGE	4.8W [400mA @ 12VDC] UNIT ONLY

Physical & Enviromental

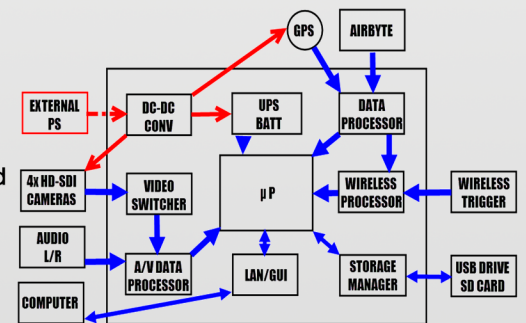
TEMPERATURE	-34°C TO +85°C [-30°F TO +185°F]
HUMIDITY	20% TO 80% RH
DIMENSIONS	4.956" x 1.720" x 4.900" [125.9 x 43.7 x 124.5mm]
WEIGHT	1.51LB [685gm]

ALL SPECIFICATIONS SUBJECT TO CHANGE

P/N 141.000 STD
141.600 DZUS
144.000 GPS
144.600 DZGPS



System Architecture



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