

AIRKNIGHT-HD2



Two Channel Aviation Industry Standard

The original AirKnight-HD2 is a compact rugged HD video recorder designed for the aviation industry, with dual independent channels. 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 synchronization software.

Applications

Mission Recon	Search and Rescue	Airborne Law Enforcement
Flight Training	UAV Surveillance	Flight Testing
Geospatial	Mission Debriefing	Aerial Firefighting
Waypoint Marking	Utility Line Inspection	Target Vector Acquisition

"You and your support team were always available, knowledgeable, and happily willing to talk to us about the current production line. You were even able to help us in some limited aspects for products no longer in production or even supported by Bad Wolf. It is even more impressive given that the DVR had to make it halfway across the Pacific Ocean and the United States, and did so in just two days!"

Jason Friedman, Engineer
University of Hawaii

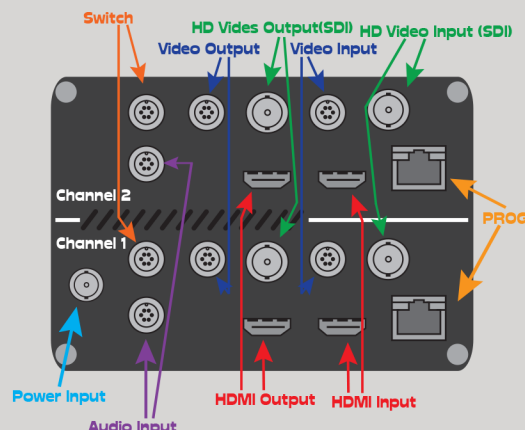
"HD-SDI technology is the new standard in marine CCTV applications. Bad Wolf Technologies supplies the most rugged cameras and recording equipment anywhere. For most extreme environments, I always recommend the Datatoys HD-SDI Series"

Keith Cariani
KEP Marine

Features

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

AirKnight HD2 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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www.datatoys.com

AIRKNIGHT-HD2

SPECIFICATIONS

Video X2

SDI	3G-SDI SMPTE 424M 1080p60/59.94/50 HD-SDI SMPTE 292M 1080i60 / p30 SD-SDI SMPTE 259M PAL/NTSC
HDMI	V.1.4 1080p
COMPOSITE	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 X2

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 X2

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

Data I/O X2

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

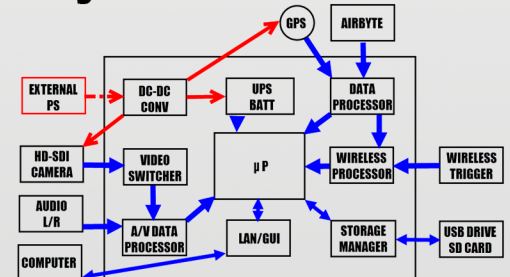
Physical & Enviromental

TEMPERATURE	-34°C TO +85°C [-30°F TO +185°F]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]

P/N 131.000 STD
131.600 DZUS
134.000 GPS
134.600 DZGPS



System Architecture



BAD WOLF™
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