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Harsh Environment Digital Video Systems

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Mil Spec Red Hawk HD SDI DVR

RED HAWK HD SDI MILSPEC HIGH DEFINITION VIDEO RECORDER

MIL SPEC COTS HIGH DEFINITION HD DVR RUGGED VIDEO RECORDER

Bad Wolf Technologies llc is proud to introduce our new COTS MILSPEC Red Hawk HD™ Airborne solid state High Definition DVR. The Red Hawk HD™ is built to military standards and is qualified to MIL-STD-461F & MIL-STD-810G for airborne deployment. It is a completely off the shelf (COTS) unit that is not ITAR regulated.

☐→ Request More Information

Record High Definition Video & Audio in full 1080p 30/60 with a true Airborne MIL-SPEC HD-SDI DVR. Red Hawk HD™ is designed for military, law enforcement, and professional aircraft applications where equipment must withstand the harshest environments. Be it extreme cold, heat, vibration, shock, EMI, EMC, RF or whatever else life throws at it, RedHawk HD™ MILSPEC HD DVR is there to work. Failure is not an option with this rugged video recorder!

Some of Red Hawk HD™ MIL SPEC HD DVR features include:

- High Definition MILSPEC airborne rugged video recorder.

- Single or Dual channel Recording to Solid State Media.

- Recording formats are 3G-SDI, HD-SDI and CVBS.

- Ethernet and WiFi networking capability.

- Cloud Enabled.

- Multicast and Unicast streaming with low latency.

- GPS Recording with Video Overlay.

- User Data Recording with Video Overlay.

- FLIR (forward looking infrared), FLIRSW, FLIRMW and FLIRLW compatible.

- Built to rugged military specifications to withstand

harsh environment.

- Rugged 7075 Aluminum hermetically sealed chassis for use in harsh environment. Manufactured in USA using the latest 5 axis CNC computer-controlled equipment.

- Qualified to IP68 (optional)

- Qualified to MIL-STD-461F EMC Electrical Compliance.

- Qualified to MIL-STD-810G for Airborne Deployment (shock, vibration and temperature).

- Certification reports available for qualified agencies, military and defense contractors.

- NVIS night vision industry standard display status (optional)

- PCM – POWER CONTROL MODULE – non-incorruptible power supply system module for airborne deployment (optional).

- DoubleVision HD™ 3G-SDI High Definition Video Switching (optional).

- MultiView HD™ Multi-Window Multi-Camera high definition HD Video "PIP" Picture in Picture Processor (optional).

Features

RECORD AUDIO AND VIDEO

Record one or two channels as separate video files to USB media drive. Compatible with our HD mini bullet camera or any camera on the market. Record all audio communications.

DATA RECORDING AND GPS OVERLAY

With the optional GPS upgrade, record and overlay geospatial data including: time, coordinates, time/date, altitude, heading and speed. GPS data is recorded in KML and GPX formats. These files can be viewed directly in Google Earth or most third party Geospatial software applications.

GPS DATA OVERLAY

In addition to a separate data file, user can also overlay GPS data and other text on top of the video.   Multiple font and color options are available. Users may set Red Hawk HD to overlay the following data on the screen and/or recorded video.

- Coordinates
    - Degrees, Minutes, Seconds
    - Degrees, Minutes
    - Degrees
- Speed
    - Knots (KT)
    - Miles per Hour (MPH)
    - Kilometers per Hour (KPH)
- Altitude (AMSL)
    - Feet (F)
    - Meters (M)
- Heading (Degrees)

USER DATA OVERLAY

Red Hawk HD allows users to overlay text on the video. This text can be either static or dynamic. Users can enter the text in the web user interface or send real time text information via RS-232. Up to three independent lines of data may be sent. Font type, size, color and position may be customized for each line of text.

RECORD TO SOLID STATE MEDIA

Red Hawk HD records to either external SSD or USB Flash Media.

RECORD HEADSET AUDIO

Red Hawk HD may also record all audio via operator headset.

HIGH QUALITY, SMALL FILES

Our Milspec Red Hawk HD recorders offer the highest HD High Definition quality with maximum efficiency meaning you get the highest video quality while having files sizes that are easy to store, edit, playback, and upload. Universal file containers allow for easy editing and playback on a PC or Mac.

DATE/TIME

Synchronize system time to an NTP server while connected to a network or use GPS time/date.

NETWORK USER INTERFACE

Access more advanced settings via Internet Explorer Web GUI.

- CBR and VBR
- .H264 AVC or MJPEG Compression
- Baseline or High Profile Compression
- Bit Rates
- GOP Size
- Video Down-scaling

- Pre and Post Alarm

- File Size

- Motion Detection

- Streaming

- Date Text Overlay

- Audio Gain Level

- Overwrite When Full (Yes/No)

AVIATION GRADE HD CABLING

Aviation grade jacket rated to FAR 25 standards provides maximum protection and performance.

LIVE VIEWING

Connect straight to your Garmin G500 or G1000 display, or use one our monitor

GREAT WARRANTY WITH EXCELLENT SUPPORT!

A one year warranty that covers your unit front to back. At Bad Wolf Technologies, we take pride in our customer support. Just call us at (414) 639-9085 or email: support@datatoys.com 24×7!

Specifications

SPECIFICATIONS

VIDEO	
SDI	3G-SDI SMPTE 424M 1080p60/59.94/50
	HD-SDI SMPTE 292M 1080i60 / p30
	SD-SDI SMPTE 259M PAL/NTSC
COMPOSITE	NTSC 720 x 480

PAL 720 x 576

RESOLUTION	Maximum Resolution: 2048×2048 @ 30 frames per second, Progressive
	Maximum Frame rate, Progressive: 85 fps @ HDMI (optional) 1280×768
	Maximum Frame rate, Interlaced: 60 fps @ HD-SDI & HDMI (optional) 1920×1080
	Composite PAL, NTSC
	SD-SDI PAL, NTSC
	HD-SDI 720p30, p50, p60 HD-SDI 1080p25, p29.97, p30, i50, i59.94, i60
	3G-SDI 1080p50, p60, p59.94
	HDMI – Optional HDMI 640x480p60 HDMI 480p30, i60 HDMI 576i50 HDMI 720p50, p60 HDMI 1080i50, i59.94, i60 HDMI 1080p25, p30, p50, p60 HDMI 800x600p60, p75, p85 HDMI 1152x864p60 HDMI 1280x768p60, p75, p85 HDMI 1280x960p30, p60 HDMI 1280x1024p30, p60, p75 HDMI 1360x768p60 HDMI 1400x1050p60 HDMI 1440x900p60 HDMI 1600x1200p60 HDMI 1680x1050p60 HDMI 1920x1200p50, p60 HDMI 2048x2048p30
COMPRESSION	h.264 AVC HIGH, MAIN, BASELINE PROFILE
	MJPEG
BITRATE	32Kbps – 16Mbps (h.264) 32Kbps –

	55Mbps (MJPEG)
FILE TYPE (Container)	AVI or MP4

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

INPUT & OUTPUT	
RECORD TRIGGER	RECORD BUTTON FRONT PANEL REAR CONNECTOR – MS3470L12-8PW
NETWORKING	ETHERNET, rear connector
INDICATOR	FRONT – POWER, GPS, RECORD, FAULT
	REAR – ETHERNET

DATA I/O	
SERIAL	RS-232 – BAUD RATE 2400 – 115200bps
GPS	GPS GNSS NMEA 0183 GPGGA/GPRMC/GPGSA/GPVTG parsed
	1Hz AND 5Hz
	OVERLAY COORDINATES/SPEED/AMSL/TIME&DATE
	CONCURRENT KML & GPX FILES

USER DATA via RS232	Up to 3 lines at one time
STORAGE	USB 2.0; Compatible with USB 2.0 & USB 3.0 media

POWER	
INPUT VOLTAGE	12 – 34 VDC
WATTAGE	4.8W [400mA @ 12VDC] UNIT ONLY

PHYSICAL & ENVIRONMENTAL	
TEMPERATURE	-34°C TO +85°C [-30°F TO +185°F]
HUMIDITY	20% TO 80% RH
DIMENSIONS	11.25″ x 6.5″ x 3.3″ [285.75 x 165.1 x 83.82mm]
WEIGHT	9.25LB [4,196gm]

Rec Switch / GPS / Way-point / JPEG

    Panel = MS3470L12-8PW

    Cable = MS3476L12-8SW

Power

    Panel = MS3470L12-3P

    Cable = MS3476L12-3S

Audio

    Panel = MS3470L12-8P

    Cable = MS3476L12-8S