

# viperfish® ASX 800



## ASX

Air Spec Xtreme

# ASX -800

## SDI - High Definition Digital Video Recorder



### Key Features & Benefits

- 4 channel SDI
- H.264 video compression for maximum transmission and storage efficiency
- MIL SPEC 810F compliant for shock and vibration
- Up to 120 FPS
- Spinning Hard Drive or SSD available
- 8 Sensors
- Dual Hard Drive Comrad
- Dual Streaming
- Wireless Ready – WiFi and Cellular

### Applications

- Aerial Surveillance
- Border Integrity
- Coastal Patrol
- Coastal & Off-Shore Science
- Customs
- Homeland Security
- Law Enforcement
- Military
- Oil & Gas Surveyors

When the operation is about bringing back sensitive information, no matter what the elements or the environments, the data must survive. Whether you are cruising at 30,000 feet or flying low to capture high definition images of activity on the ground, the Viperfish™ ASX- 800 will perform with digital accuracy, recording video, audio and sensors leaving you completely focused on your mission. The high performance digital platform combines a state of the art processing with a real time operating system and standard H.264 compression resulting in clear, crisp, video with playback capability on a wide range of PC systems. Video and audio data is recorded to a solid state storage device trade named COMRAD™ which can be carried on or off the aircraft quickly and easily.

H.264 compression provides a very high video quality to storage space ratios in the video compression field today.

Recorded data can be managed via Digital Post Mission Analysis Software application or recorded video and audio can be played back on windows media player.

The ASX-800 is a flexible COTS SDI digital video recorder. The ASX-800 operation is autonomous on power up. The recording media is a COTS solid state hard drive(s) as typically used by electronic news groups and broadcast. The media is removable from the ASX-800 and can be provided as needed to ground users.

The ASX-800 records video/audio on up to 2 one Terra Byte hard drives that are mounted in a removable drive caddy (Comrad). In addition to the Comrad, the ASX-800 also supports up to a 64 GB SD card. Audio / video can be recorded to the Hard Drive and SD card simultaneously. The ASX-800 can be configured to record a lower resolution / frame rate to the SD card. The audio / video are removed from the Comrad (to a PC) via a VDA (Video



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Download Adaptor - supplied). The VDA provides the facilities to power the internal hard drives in Comrad and it also provides a USB interface to connect the Comrad to a PC.

Real time video / audio can be accessed using an external monitor connected to the front panel display connector. Alternatively, an ICD (Interactive Control Display) can be connected to the ASX-800 via a rear panel connector to access live video / audio or access previously recorded audio / video. Additionally the ICD allows users to configure the ASX-800.

**System**

User Interface                      Graphic User Interface (OSD)  
 Operating System                  Customized Embedded Linux  
 Operation Mode                    Preview, Recording, Playback, Backup  
 Password Security                Multi-level user management

Video search                        Time/Channel/Event  
 Audio bit rate                      8-32kbps  
 Recording resolution            4 - CH 1080P Recording  
 Type                                 2 – SATA Drives up to 1TB each  
 Maximum capacity                1TB for each SATA Drive – up to 2  
    SATA Drives max

**A/V Input**

A/V input                            4 – SDI

**Storage**

Hard Drive                         Up to two 1 TB SATA Drives in  
    removable Comrad  
 Video extraction from HD      Via VDA (Video Download Adaptor)  
 SD Card                            Up to 64 GB Card supported

**A/V Output**

HDMI output                        Included  
 Display connector 1               4 pin aviation connector (front panel –  
    NTSC analog video and audio)  
 Display Connector 2               Aviation connector for use with  
    Interactive Control Display (ICD)

**Other**

IR Remote control                Supported  
 Mouse control                    Supported  
 Network                            1 - RJ45 10M/100M  
 Serial port                        2 - RS-485 serial port (flying leads)  
 Serial port                        2 - RS-232 serial port (flying leads)  
 USB Connector                    2 - USB 2.0 (USBA – front panel, USB  
    B back panel)  
 Firmware update                Support USB update/Network update  
 Alarm input                        8 in  
 Alarm output                      2 out  
 Voltage                            11.5V to 36V  
 Power (without HDD)            ≤300 W  
 Operation Temperature        -20° to +60°  
 Operation Humidity              10% - 90%  
 Operation Humidity              10% - 90%

**A/V encoding parameters**

Video compression                H.264  
 Display frame rate                NTSC: 120 fps (4 x 30 fps), PAL: 100 fps  
    (4 x 25 fps)  
 Recording frame rate            NTSC: 120 fps(4 x 30fps, PAL: 100 fps(4  
    x 25 fps)

Video Encoding Resolution      NTSC: 1080P (1920x1080) /  
    720P (1280X720) / D1 (704X480) /  
    HD1 (704X240) / CIF (352X240)  
    PAL: 1080P (1920x1080) /  
    720P (1280X720) / D1 (704X576) /  
    HD1 (704X288) / CIF (352X288)

Recorded Video bit rate        1080P: 4608 - 6144kbps,  
    720P: 1536kbps - 3072kbps,  
    D1: 768 - 1536Kbps,  
    HD1: 512 - 1280kbps,  
    CIF: 384-768kbps, QCIF: 192-384kbps  
 Audio compression                ADPCM  
 Recording mode                    Always/Schedule/Alarm  
    recording/Motion detection recording

**Dimensions**

Size                                 4.5 H x 7.5 W x 9.9 D inches (113 H x  
    190 W x 251 D millimeters)  
 Weight                              9.5 lb (4.3 kg)



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