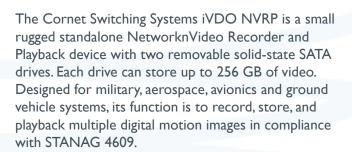


## Intelligent VDO® NVRP

Network Video Recorder & Playback



**Features and Functions** 

Recording – The iVDO NVRP can record up to six high quality STANAG 4609 compliant transport streams (UDP/IP and multicasts) which can be selected or deselected as needed. Recording is set to stop only when the storage sector associated with a particular stream is full.

Storage – The iVDO NVRP can store up to twelve hours from six STANAG 4609 compliant streams. Maximum size of the transport stream can be set by the user. Recorded transport stream video, data, and logs are organized in folders. The unit's two standard solid-state SATA hard drives mount on removable sleds that plug directly into the backplane where they receive power and the differential SATA interface from the controller board.

Playback – The iVDO NVRP offers playback of previously recorded MPEG-2 Transport Streams while

simultaneously writing to the same data files. The unit can stream two videos while automatically spanning multiple files and folders for the streaming playback of any previously-recorded transport stream. Users can control play, pause, and stop settings as well as unicast/multicast, IP addresses, port numbers, start-time, source etc.

Control is through a web server and API which provide detailed status information such as BIT, software, and firmware versions as well as the amount of storage consumed and available. The iVDO NVRP control provides a means of naming streams, devices, and hardware ports. These names can be as long as 32 characters.

Network Accessible Storage (NAS) – NAS is supported through the iVDO NVRP Ethernet interface. The drive can be read via a PC running Windows XP SP3 as a mapped drive. iVDO NVRP allows the drive to be read while it is recording; however, the video being recorded will be on a slight delay. The NAS function does not interfere with its use as a video recorder/player.

## **Key Features**

- Two solid state removable SATA drives
- Records up to six high quality STANAG 4609 compliant transport streams
- Stores up to 12 hours
- Transport stream size settable by user
- Organization is in folders
- Ability to play MPEG-2 and H.264 streams being recorded
- Can stream two videos while spanning multiple files and folders
- User control of play, pause, stop settings, unicast/ multicast, IP address, port numbers, start-time, and sourc
- Drive removal in less than 2 minutes
- Data storage blocks are sized so that not more than 60 seconds of data is lost in case of an unplanned power loss
- Ready to record and playback in 30 seconds after installation
- Real-time clock provides 1/30 of a second accuracy
- Control through web server and API
- NAS supported through Ethernet interface
- Human readable user inserted Event Markers for quick data access
- Comes with an upgrade path to next generation SATA drives

## **Specifications**

**Video Input** Analog Video (SD)

Format: Four NTSC color, B/W composite, 75 ohm and

S-Video (Y/C) 30 fps (29.97), 2:1 interlaced,

compliant with EIA-170/RS-170A

Video Levels: Nominal 1.0 Vp-p

Sync Level: 60 mV to 549 mV (9 to 80 IRE)
Active Video: 0 V to 1 V (0 to 140 IRE)

Digital Video (HD)

Video Input: Four HD-SDI (SMPTE-292M)/SMPTE 259M

**Audio Input** 

Stereo Audio: Four, enable or disable selectable 600 ohm

terminated, AGC range -21 to +4 dBm

**KLV Metadata** 

Mux: Ingestion of KLV metadata from external

sources

Network

Interface: I0/I00/I000Base-T

Protocols: RTP, UDP, TCP/IP, HTTP, IGMP V2, ARP, NTP,

SAP

IP Packets: Unicast and Multicast

**Other Functions** 

File transfer: New firmware upgrade via TFTP

Reset recovery: Less than 15 seconds, from initialization to

operational

RTC: Internal Real Time Hardware Clock for time

stamping per MISB 0604. Set and maintain UTC "Zulu" time via NTP over wired Ethernet interface. NTP updates required or

requested less than 10 time/hour.

Control & Settings: Built-in web browser. Configuration via

web server GUI. Support for SNMPVI,V2 and V3. All settings stored in NVRAM. On power, wakes up to last or default setting.

Presets: 10 user definable user settings

Built-In Memory

Flash: I GB of NOR; I GB of NAND NVRAM: 40 years of life, I 20 KB DDR2: 2 banks of 512 MB DDR2

**Mechanical and Environmental** 

Enclosure: No cooling fan

Dimension: 356mm w x 170mm d x 215mm h

Weight: II.6 kg

Connectors: Eight are Series 805 "Mighty Mouse" Triple-

Start Threaded Coupling connectors manufactured by Glenair (J1, J2, J3 < 5 < 6 < 8,J9,J10). Four are Tyco BNC connectors for the HD video inputs (J4,J13,J14,J15) and one is an Amp RF connector used for the

GPS antenna (J20). 10/100/1000Base-T

Temperature

Ethernet:

Operating: 0° C to +55° C
Storage: -25° C to +70° C
Humidity: 95% non-condensing

**Electrical** 

Power Interface: Operational over 16-70 VDC nominal

28 VDC

DC input EMI filtering Complies with MIL-STD-704A Supports remote on-off discrete LED to indicate power on No fusing or fusible links

Power Consumption: 76 W typical (4A @ 28 VDC)