Model Name	NVS-30
Product Name	H.264 Video Streaming Server
Video and Audio Inputs/Outputs	
HDMI Video Input	1920x1080p @ 60/59.94/50/30/29.97/25/24/23.98 1920x1080i 29.97/25 1280x720p @ 60/59.94/50 Frames per second Video Input Format is Auto-Detected
HDMI Video Output	Preview output of video input signal. 2 Frame delay from input to output.
Audio Input	Processes first two channels of audio embedded in HDMI input signal. Unbalanced analog stereo input via 1/8" (3.5mm) jack. Line Level
Audio Output	Pass-through of all embedded audio channels in HDMI signal. Unbalanced analog stereo output via 1/8" (3.5mm) jack – pass-through of input. Line Level
H.264/MPEG-4 Part 10 (AVC) Video Encoder	
Resolutions	Selectable encoding resolutions ranging from: 128x128 to 1920x1080
Bit Rates Ranges	Record Only Mode: 100 kbps to 30 Mbps Stream Only Mode: 100 kbps to 20 Mbps Independent Stream and Record Mode**: Recording: 100 kbps - 30 Mbps Streaming: 100 kbps - 10 Mbps Maximum combined total bitrate of 30 Mbps **Note that when both streaming and recording resolutions are above 1280x720, the encode parameters must be identical for both processes. Completely Independent recording and streaming settings are available when either the streaming or the recording resolution is 1280x720 or below.
Encode Frame Rates	Encode frame rates representing 1:1, 1⁄2 and 1⁄4 of the input frames rates are supported Note that the maximum encode frame rate is 30 fps when encode resolution is 1920 x 1080
Encoding Profiles	Baseline, Main and High
Encoding Controls	2.0, 3.0, 3.1, 4.0, 4.1 Level Support

	GOP Size and Structure Variable bit rate support Average max/min data rate controls Deblocking Filter
MPEG-4 AAC Audio Encoder	
Standard	AAC-LC
Sample Frequency	32, 44.1 and 48 kHz when digitized from analog source
Channels	2 channels Stereo (L/R)
Bit Rates	Range from 32 kbps to 256 kbps
Scaler	
	High Quality multi-tap 10 bit Down Scaler and De-Interlacer. Available to both streaming and recording operations.
Recording File Format	
File Type	Industry Standard MP4 and MOV files with two channels of embedded AAC audio.
Recording Lengths	Maximum file length of 300 minutes - irrespective of storage type used. File splitting feature allows a user to record continuously for long periods by defining file segment sizes. The NVS-30 will create these sequential file segments over the course of the recording operation without losing a single frame of video. File segment can have a length of 1 to 300 minutes.
Network Interfaces	
Connector	RJ45 providing 10/100/1000 Base-T Ethernet with Static or DHCP addressing
Protocols	RTMP, RTSP/RTP IPv4 Support Unicast and Multi Unicast (number of clients may vary from 3 to 10)
User Interface	
Physical Interface	Independent streaming and recording Start/Stop control
Storage Types for File Recording	
2x USB 2.0	Support for NTFS (3.1) and FAT32 file system The NVS-30 will support writing to USB3 devices at USB2 speeds. Also note, there is a very high variability in the performance capabilities of "thumb" drives (even USB3 versions). Many are optimized for "read" operations while the NVS-30 requires sustained "write" capabilities. For best results, NVS-30

	recommends using powered USB drives. If small portable media is required, SD cards may be more suitable.
1x SD card Slot	Supports SD and SDHC cards. Only NTFS formatted SDXC cards are supported. (Class 10 highly recommended).
Network Mapped Drive	Support for writing to shared folders in computers found on a network using Windows Share protocols (suitable for windows system) as well as NFS protocols (suitable for Mac and Linux systems).
Physical	
Dimensions	5.60 in. long (14.2 cm) 4.30 in. deep (10.9 cm) excluding inserted SD-CARD 4.40 in. deep (11.2 cm) including inserted SD-CARD 1.22 in. (3.1 cm) high including rubber feet
Weight	0.66 lbs (300 grams) excluding power supply
Operating conditions	32 to 104 deg. F (0 to 40 deg. C