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Dual Streaming Encoder NVS-35



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NVS-35

Dual Streaming Encoder



The NVS-35 Dual Streaming Encoder is not only a streaming encoder, but also a professional video recorder. A variety of input types include HDMI and SDI video inputs and XLR balanced and RCA unbalanced audio inputs. The NVS-35 is able to simultaneously stream in heterogeneous network environments and record live high quality H.264 videos at different bitrates for various applications. While video streaming is in progress, continuous video recording can also take place on the SD card with no file size limit. The dual streaming technology allows you to grow your audience by live streaming videos to two platforms at the same time. You can also activate vertical video streaming by simply pressing the corresponding button with a few basic setups. The NVS-35 is definitely the top video streaming server with the most complete and powerful features.

- Simultaneous H.264 live video streaming and recording.
- Supports HDMI/SDI video input and XLR/RCA audio input.
- SRT streaming for secure and reliable transport of real-time low latency video over IP networks.
- Dual streaming technology allows live video streaming to two platforms.
- Generate vertical video streaming with a few basic setups.
- Continuous video recording in the FAT32/ exFAT/NTFS file systems with no file size limit.
- Multilingual interface (English/ Traditional Chinese/ Simplified Chinese)
- Bright and clear LED indicators



Front Panel



USB port
For firmware upgrade.

SD Card slot
Records live video streams on the SD card.

INPUT button
Selects SDI or HDMI input interface.

Rear Panel



RCA unbalanced audio input
For connection to an unbalanced stereo analog audio source

XLR balanced audio input
For connection to an external XLR balanced audio source

Professional SDI and XLR input interfaces
The NVS-35 is equipped with professional SDI and XLR input ports for connecting cameras and microphones.





BITRATE button

Press to switch between high (8M), mid (4M) and low (2M) bitrates.

Vertical Button

Press to switch between portrait and landscape orientations.

Record button

Press to start/stop recording

Stream button

Press to start/stop streaming



SDI/HDMI Inputs

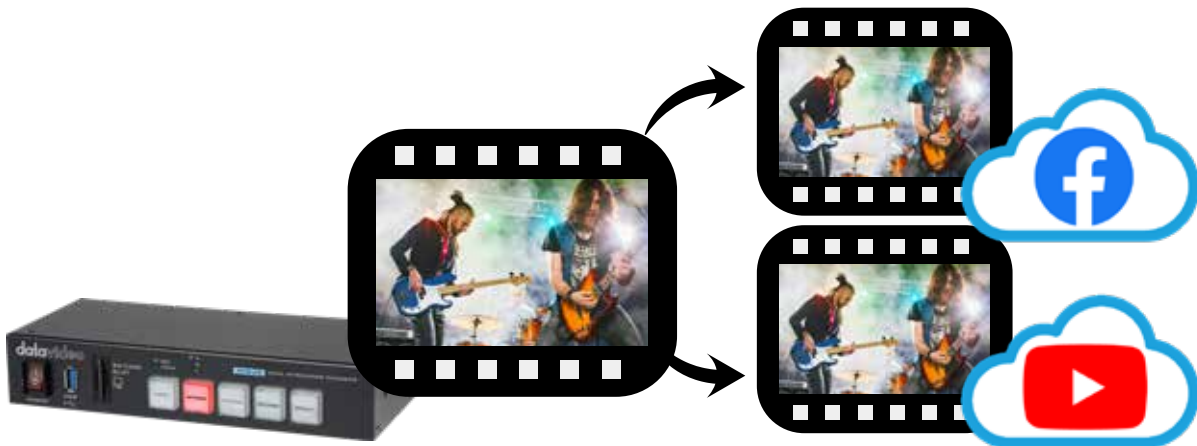
The NVS-35 offers professional SDI or HDMI input port. Moreover, there is a piece of cable support attached to the HDMI port to ensure reliable video transmission, hence uninterrupted video streaming.

LAN Port

Connect the LAN port to the network to start video streaming.

Dual streaming to your favorite platform

The NVS-35's unique dual streaming technology allows you to grow your audience by live streaming videos to two platforms at the same time. Examples of the live streaming platforms are Youtube and Facebook.



Selectable SDI and HDMI video inputs

The NVS-35 offers SDI and HDMI inputs to increase versatility in different applications. As a result, the NVS-35 works perfectly with both high-end and budget cameras.



Professional XLR and RCA audio inputs

The NVS-35 offers XLR balanced and RCA unbalanced audio inputs in order to satisfy requirements of various applications. External XLR balanced audio sources can be connected to the XLR ports. The NVS-35 also accepts unbalanced stereo analog audio sources.



SRT maintains stream quality even in a slow network environment

Due to insufficient network bandwidth, many users must have experienced delayed or pixelated videos during live streaming. The NVS-35 supports SRT streaming which is the key to solve network issues such as packet loss due to unreliable connection, insecure RTMP video transmission, etc.



dvCloud to enhance your streaming experience

dvCloud is a professional video streaming platform developed solely by Datavideo. After login, you will be able to create and manage all the live stream channels on dvCloud. You can stream live videos to as many as 25 platforms for unlimited amount of time. What is great about dvCloud is that video streams can be recorded on the Cloud server as you stream. The recorded videos can be downloaded for backup purpose. The NVS-35, together with dvCloud, forms a low latency, secure and reliable SRT connection over IP networks.



SRT
Support SRT

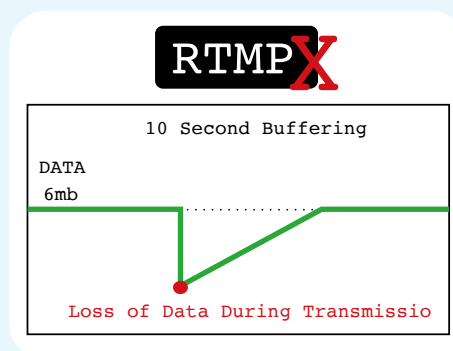
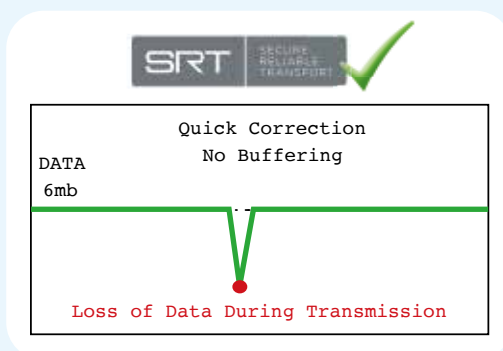


www.dvcloud.tv



Why Use SRT?

SRT handles problematic networks more efficiently than RTMP protocol, which is the most common streaming protocol. It requires less bandwidth than RTMP to provide a reliable stream. SRT handles data more effectively than RTMP as a result you have less data loss.



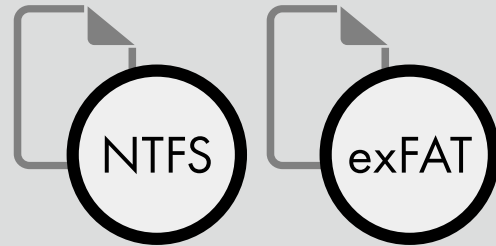
H.264 Streaming and Recording

Record and stream at different bitrates which can be optimized for different applications in various network environments. Configurable range of bitrates is between 256K and 10M, which should be adequate to cover all scenarios.



Supports FAT32/exFAT/NTFS file system

Continuous video recording on SD cards in multiple file formats with no file size limit.



An easy-to-use web interface

The web interface can be opened on any web browsers to access the NVS-35 remotely.



Easy-to-use subtitles

You can connect a PC or laptop to the NVS-35 and take advantage of this feature to overlay subtitles or pictures on your live videos.


In addition to using the NVS-35's web interface to configure live streaming, you can also customize the subtitles or pictures and overlay them on the live videos. Moreover, the size, color and border of the subtitles can also be configured as well as the screen position of the picture.




Vertical video streaming for social media

50% of live videos are viewed on cellphones and 94% of the viewers prefer viewing in a vertical/portrait orientation. Vertical video streaming that the NVS-35 provides allows you to stream vertical videos with a few basic setups.

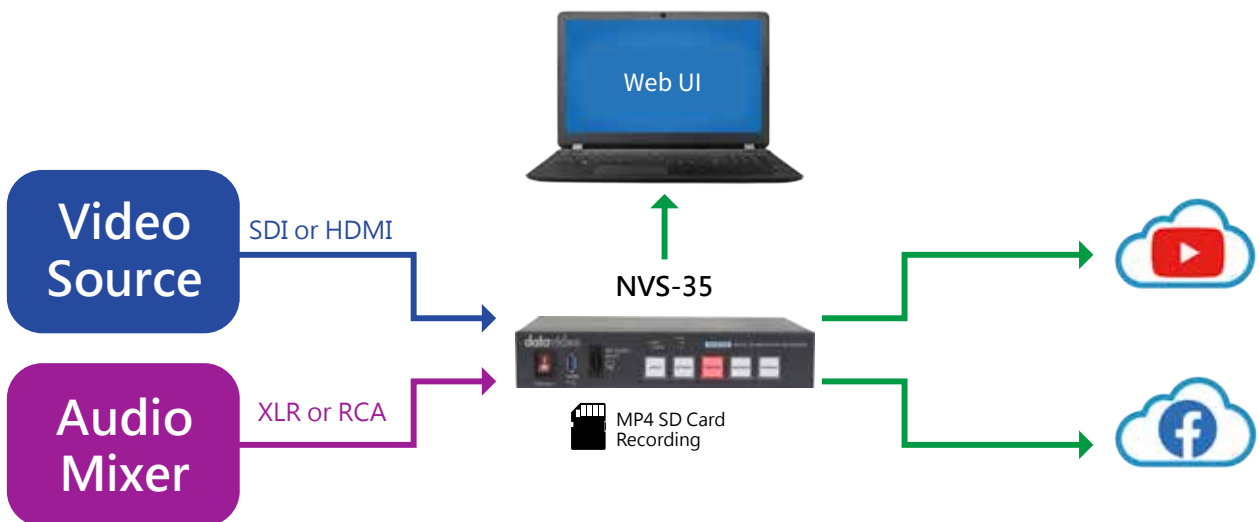
Vertical Streaming 1
After automatically capturing the central part of the video, it will be output live in vertical mode



Vertical Streaming 2:
Turn the camera 90 degrees to shoot, and rotate it through the NVS-35 to a vertical video output.



System Diagram



Optional Accessories



RMK-1
1U Rackmount Kit

The RMK-1 is a rack mounting accessory for Datavideo 0.5U sized products. The RMK-1 can mount one or two NVS-35 products into a 1U rack space.

	NVS-35
Video Input	HDMI x1 SDI x1
Supported Video Input Resolution	1080p 60/59.94/50 1080p 30/29.97/25/24/23.98 1080i 60/59.94/50 720p 60/59.94/50 480i 59.94, 576i 50
Video Output	Support Down Scaling to 128x128
Audio Input	1 x HDMI embedded audio (Audio depends on the source/ both stereo and mono supported) 1 x SDI embedded audio 1 x RCA (audio level calibration: +10/+12dB ~ -6dB) 2 x XLR (audio level calibration: +10/+12dB ~ -6dB) Mix (Embedded + RCA+XLR)
Encode	H.264/AVC, Main/High Profile Level 4.1
Video Bitrate	Record Only: Up to 16Mbps (1080p50/60) Stream Only: Up to 10Mbps (1080p50/60) Rec and Stream: Up to 36Mbps (1080p50/60) (dual stream)
Video Rate Mode	CBR
Audio Mode	Stereo/Mono
Audio Bitrate	Delay time: 0-3000ms
Audio Delay	AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K
Streaming Protocols	TS over TCP/UDP (unicast & multicast) RTSP over HTTP/TCP/UDP (RTSP Elementary Streaming) RTMP/RTMPS (Publish) SRT
Network Interface	1x RJ45 (10/100Mbps Ethernet)
Recording File Format	MP4, TS
Storage	SD Card x1 (File System: NTFS, FAT, exFAT)
Special Feature	Vertical video stream(rotate & crop)
Power Supply	DC 12V 12W
Dimension (LxWxH)	220 x 95 x 47 mm
Weight	0.78 kg
Operating Temp. Range	0~40 ° C

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