



NVP-903

Multi-Stream H.264 Encoder



Overview

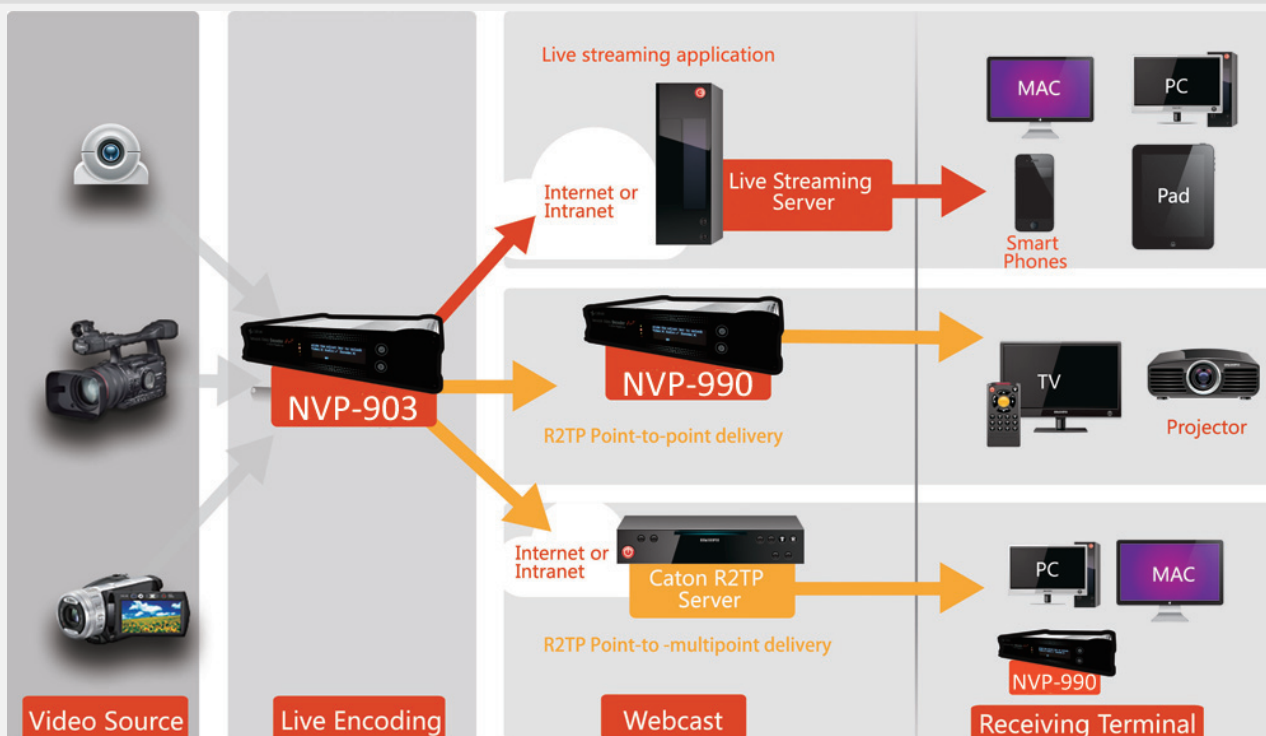
NVP are network video encoder and decoder series, which are specialized for high definition real-time video streaming applications. It provides flexible streaming for low-bandwidth transmission applications using H.264 video and AAC audio encoding, supporting FLV over RTMP streaming output, thus seamlessly connecting to streaming media server. The third generation NVP series encoder – NVP-903, support 3 encoding streams output for multi-screen application. Moreover, NVP-903 integrates H.264 decoding functions with HDMI output, to form a versatile media delivery solution over IP network.

Integrated with Caton leading R2TP technology, NVP-903 and NVP decoders can also realize high quality live video contribution and distribution over Open Internet.

Feature Highlights

- ◇ Support 1080P@60 FULL-HD H.264 encoding/decoding
- ◇ Support HD-SDI, HDMI, Analog AV for video & audio input
- ◇ Support 1 channel encoding with 3 encoding streams output, with different bit rate/resolution for multi-screen application
- ◇ Support RTMP PUSH, TS over HTTP, UDP IP output, seamlessly connecting to streaming server
- ◇ Support high bit rate file recording into SD card
- ◇ Integrated with H.264 decoding function with HDMI output
- ◇ Support Caton proprietary R2TP protocol for contribution and distribution over Open Internet
- ◇ Internal hot-spot, support web UI control via PC/Android/iOS
- ◇ Compact design: 200.0 x 44.5 x 153.0mm, 900g

Application Scenarios



Technical Specifications

CODEC [Encoder Mode]

Video Codec	H.264	GOP	IP/IBBP
Profile	BaseLine/Main/High	Bitrate Ctrl	CBR/VBR
Level	1.3/2.0/2.1/3.0/3.1/3.2/4.0/4.1/4.2	Bitrate	HD: 650Kbps-8Mbps SD: 300Kbps-8Mbps
Bit Depth	8bit	Multi-Stream	Up to 3 encoding streams
Chroma	4:2:0	Total Bitrate	≤ 20Mbps
Input Format	1920x1080p59.94/50/29.97/25 1920x1080i59.94/50 1280x720p59.94/50 720x576i50, 720x480i59.94	Audio Codec	MPEG-1 Layer 2 AAC-LC HE-AAC V1
Resolution	Up-Scalable & Down-Scalable	Audio Mode	Stereo/Dual Mono/Mono
OSD	PNG file for OSD		

INPUT & OUTPUT [Encoder Mode]

Video Inputs	HD-SDI *1, BNC, 75Ω HDMI *1, V1.4a Analog Video *1, RCA	IP Outputs	FLV over RTMP PUSH TS over UDP TS over HTTP R2TP (License Need)
Audio Inputs	HD-SDI *1, BNC, 75Ω (Embedded) HDMI *1, V1.4a (Embedded) Analog Audio *2, RCA	Ethernet	RJ-45 *1(10/100/1000 BASE-T)
Video Loop	HDMI Loop Out	SD Card	Standard SD Card Slot *1
		USB	USB2.0 *1

CODEC [Decoder Mode]

Video Codec	H.264: HP@L4.1/MP@L4.1 MPEG-2: MP@HL	Format	1920x1080p59.94/50/29.97/25 1920x1080i59.94/50/29.97/25 1280x720p59.94/50/29.97/25 720x480i59.94, 720x576i50
Audio Codec	MPEG-1 Layer2 MPEG-1 Layer3 MPEG-2 AAC		

INPUT & OUTPUT [Decoder Mode]

Video Output	HDMI *1, V1.4a	IP Inputs	TS over UDP TS over HTTP R2TP (License Need)
Audio Output	HDMI *1, V1.4a (Embedded)		
Ethernet	RJ-45 *1(10/100/1000 BASE-T)		

PHYSICAL & MANAGEMENT

Management	Web-UI Control	Hotspot	Internal Wireless AP, 2.4GHz
Front Panel	E-Ink Info Display	Input Voltage	DC 12V
Dimensions	200.0 x 44.5 x 153.0mm(W x H x D)	Weight	900g



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