



New in 2016

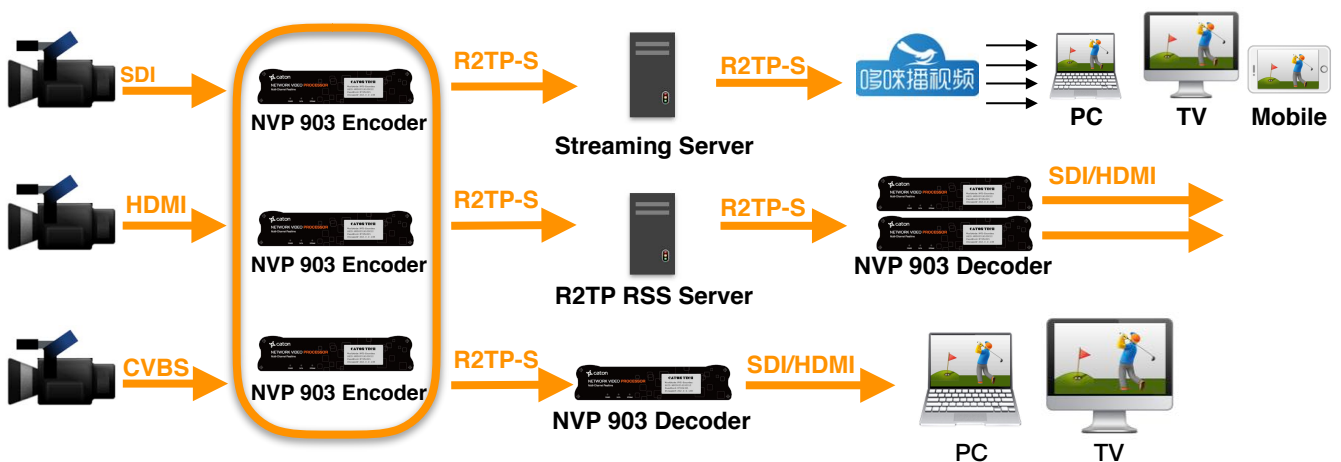
NVP-903 H.264 Network Video Processor



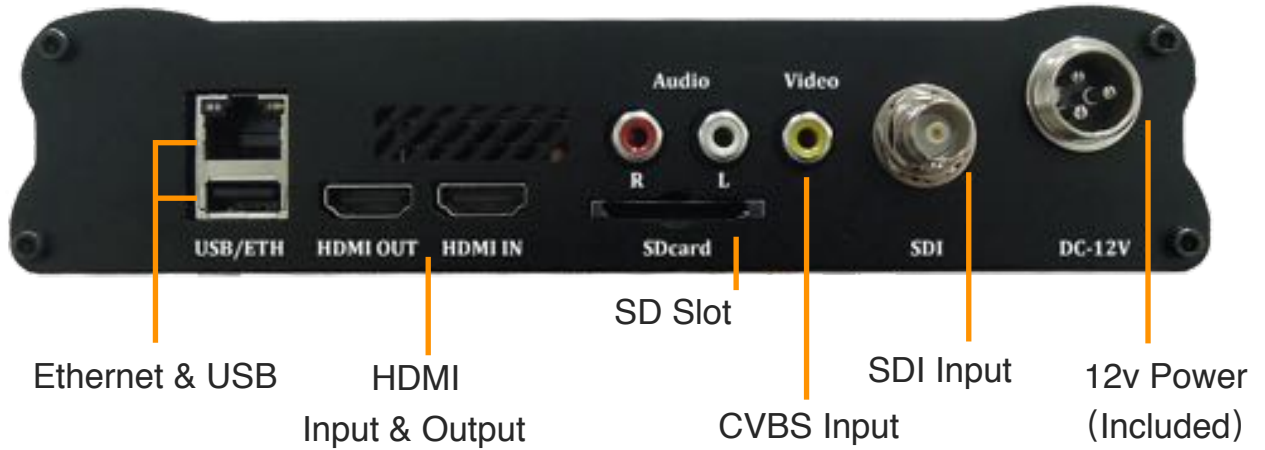
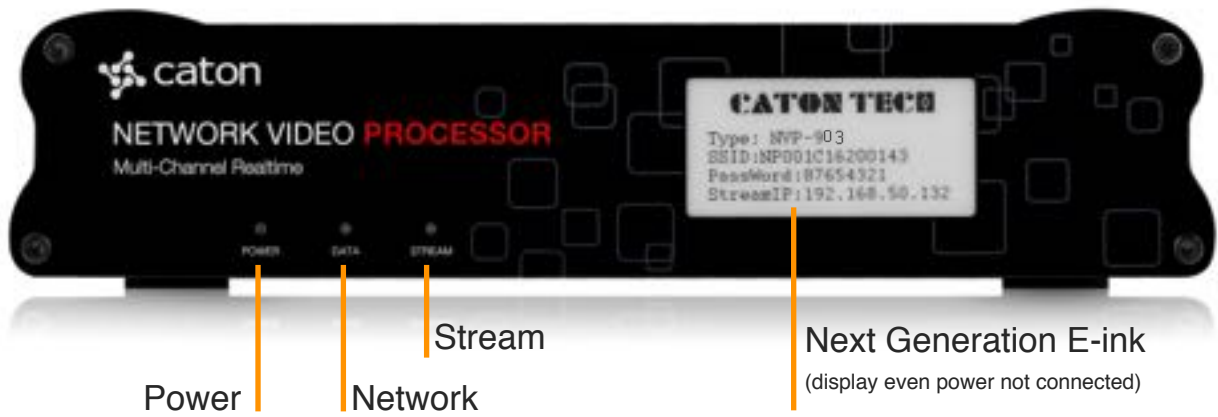
3rd Generation of NVP Video Encoder and Decoder - The new NVP support 3 independent bitrate and resolution streaming output simultaneously, design for multiple viewing from different platform such as PC/Mac, Android/iOS and TV. NVP is native in network streaming, easily deploy for live broadcast, classroom, video conference etc, quickly build up a complete multimedia network.

NVP-903 integrated with H.264 encoding with Caton unique R2TP (Reliable Real-time Transport Protocol) transmission technology, makes professional HD broadcasting over open internet possible. R2TP resolves the issues such as network jamming, jitter and errors during QoS, that's the key for streaming live HD video in broadcast quality over open internet.

NVP HD Streaming Workflow



NVP-903 can easily deploy on the field for live events, flexible setup for different environments such as point to point or point to multi points streaming.



H.264
MPEG-4/AVC

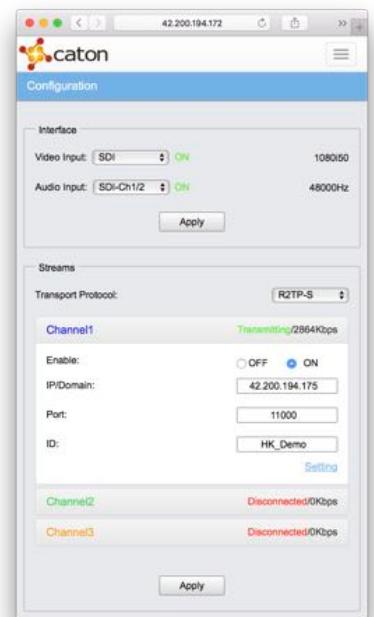
H.264 High Profile @Level 4.2 encoding
AAC-LC Audio encoding



Build-in AP , Support PC/Android/iOS
Managing Device through any browser



Seamlessly connecting to Dorecast
Also support CDN such as YouTube,
Facebook, Wowza and more.



Rack Mount Version - NVP-R2 for professional server rack setup

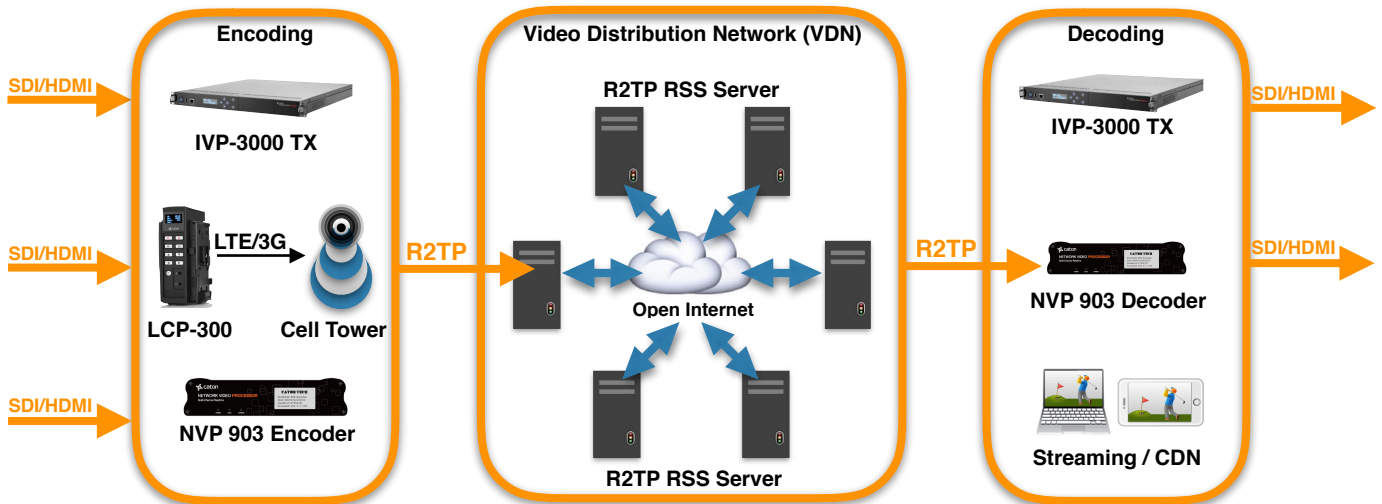


Powering Open Internet Broadcasting

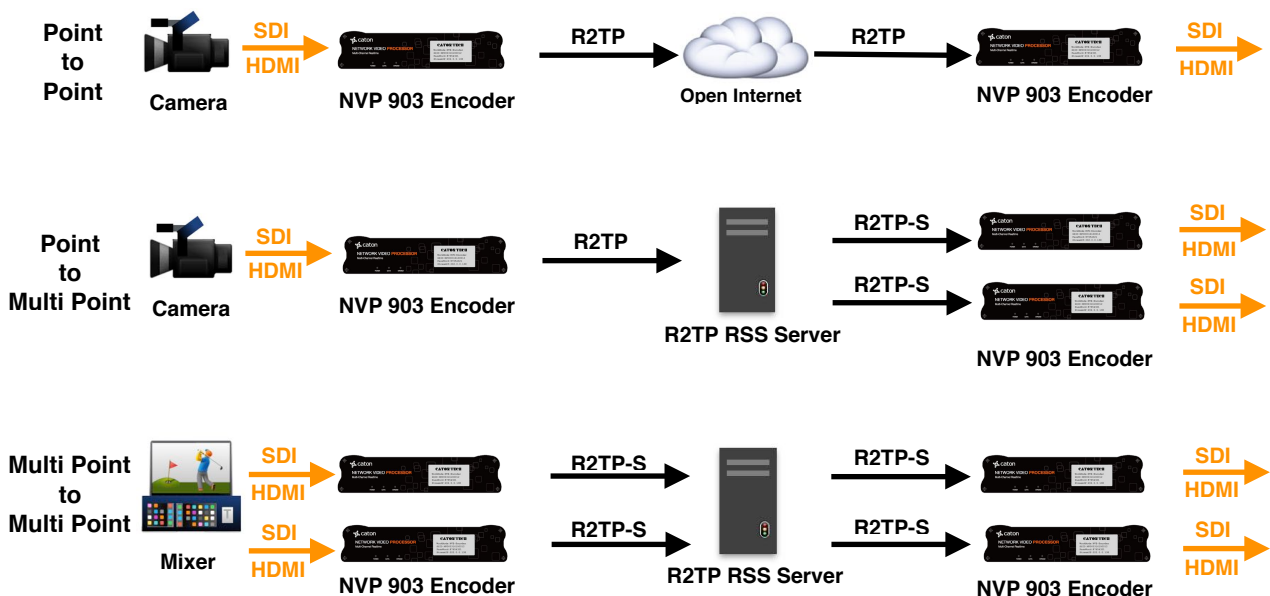
Caton R2TP Faster, More Flexible, More Reliable Live Broadcast

R2TP an IP based transport protocol especially designed to solve the QoS/QoE problems for live video transmission over Internet. R2TP improved the stability and reliability by implementing hybrid FEC and a clock synchronization based ARQ method to make error recovery mechanism more effective.

R2TP open Internet broadcasting solutions



NVP HD workflow examples



Technical Specification

Encoding format	H.264	GOP format	IP/IBBP
Encoding type	BaseLine/Main/High	Bitrate control	CBR/VBR
Encoding class	1.2/1.3/2.0/2.1/3.0/3.1/3.2/4.0/4.1/4.2	Encode bitrate	HD : 650Kbps-20Mbps SD : 300Kbps-8Mbps
Bit Depth	8bit	Multi streams	Support 3 independent output
Color Space	4:2:0	Total output	≤20Mbps
Resolution	1920x1080p59.94/50/29.97/25 1920x1080i59.94/50 1280x720p59.94/50 720x576i50, 720x480i59.94	Audio Encoding	MPEG-1 Layer 2 AAC-LC
Encode Resolution	Support Up/Down/Cross conversion	Audio mode	Stereo/Dual Mono/Mono
OSD	Support PNG file	Output Protocol	FLV over RTMP PUSH TS over UDP TS over HTTP R2TP (Optional)
Video Input	HD-SDI *1, BNC, 75Ω HDMI *1, V1.4a Analog *1, RCA	Network port	RJ-45 *1(10/100/1000 BASE-T)
Audio Input	HD-SDI *1, BNC, 75Ω (embedded) HDMI *1, V1.4a (embedded) Analog *2, RCA	SD slot	Standard SD card slot *1
Video loop out	HDMI loop out	USB	USB2.0 *1
Video Encoding	H.264: HP@L4.1/MP@L4.1 MPEG-2: MP@HL	Decode format	1920x1080p59.94/50/29.97/25 1920x1080i59.94/50/29.97/25 1280x720p59.94/50/29.97/25 720x480i59.94, 720x576i50
Audio Encoding	MPEG-1 Layer2 MPEG-1 Layer3 MPEG-2 AAC	Network input	TS over UDP TS over HTTP R2TP (Optional)
Video output	HDMI *1, V1.4a	Hotspot	Build in AP , 2.4GHz
Audio output	HDMI *1, V1.4a (embedded)	Input power	DC 12V
Management	Based on Web-UI via web browser	Weight	900g
Front panel display	E-Ink Display		
Size	200.0 x 44.5 x 153.0mm (W x H x D)		



Caton Technology Corp.

Caton is a leading manufacturer of advance video encoding and Open Internet data transmission solutions. Reliable Real-Time Transport Protocol (R2TP) and Fast Files Transfer Protocol (F2TP) technologies enable secure, robust and easy-to-use data transmission for the broadcast and enterprise markets even in the harshest of network conditions. More information is available at www.catontechnology.com