

VuStream

Encoders & Multi-View Decoders

Delivering high quality video streams across your network

VuStream series of encoders and decoders include a range of appliances available in various form factors, resolutions, and performance features. All VuStream appliances are compatible with VuScope controllers and can be centrally configured and managed by TRx.

VuStream Benefits



PERFORMANCE ENCODING

Deliver low latency high performance 4K video streams up to 4:4:4



SINGLE VENDOR

A complete range of encoders & decoders for all needs.



CENTRALIZED MANAGEMENT

Single common configuration & operation platform.



INTEROPERABLE

Built on an open architecture & fully adheres to the SDVoE, SRT, and H.264 standards.

VuStream Applications



Control Room

VIDEO WALL CONTROL & KVM

Increasing productivity with powerful, easy to use technology.



Collaboration Room

CO-CREATION & PRESENTATION

Bringing efficiency to meeting rooms with productive collaboration.

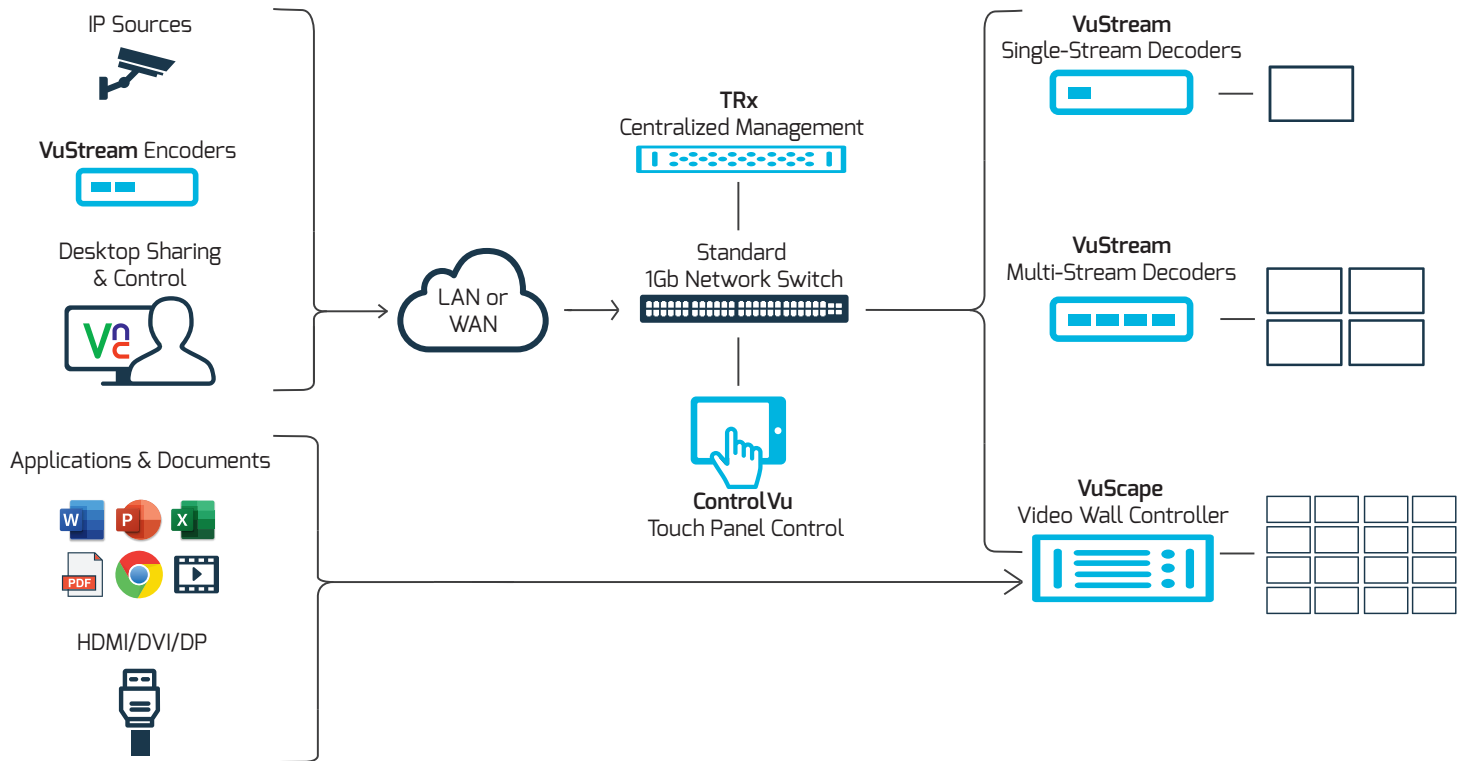


Corporate Signage

CONTENT MANAGEMENT & DISTRIBUTION

Easily manage and distribute content throughout multi-site organizations.

VuStream Workflow Example



Selecting the Right VuStream Solution

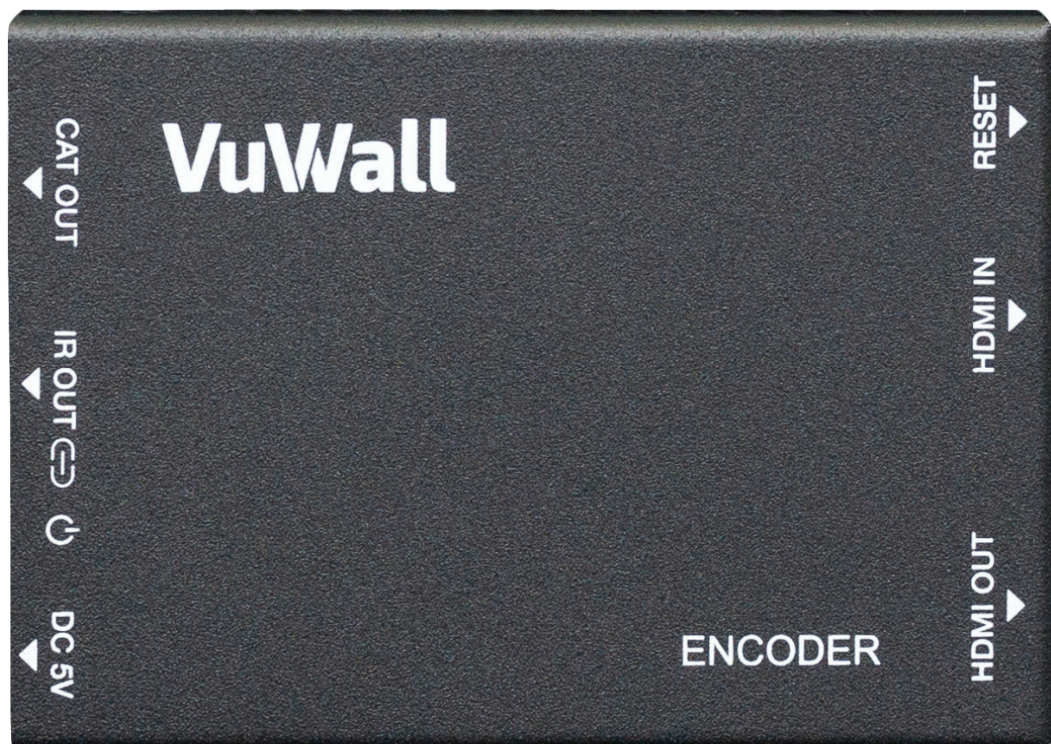


VuStream	100	200	300	500
IDEAL FOR	Single stream encoding for HD solutions	Single or multi-stream encoding & decoding with 4K signals up to 4:4:4	Multi-stream encoding & decoding with 4K signals up to 4:4:4 and low latency	High performance streaming with highest quality 4K up to 4:4:4 and virtually no latency
MAX RESOLUTION	1920x1200p30	UHD60p	UHD60p	4K60p
QUALITY	4:2:0	4:2:0 4:2:2 4:4:4	4:4:4	4:4:4
FORMAT	H.264	H.264	H.264	SDVoE
NETWORK	100 Mb	1 Gb	1 Gb	10 Gb
INPUT	HDMI	HDMI	DP	HDMI
IP-KVM	—	—	USB	—

VuStream E110 Encoder

Ultra Compact H.264 HDMI Video Encoder

The VuStream E110 encoder transmits HDMI signals of up to 1080p60 resolution over standard networks using H.264. Stream either unicast or multicast to the VuScape controller decoding cards or to standard players like VLC. VuStream E110 is an extremely compact and cost effective solution that can be set with user-defined low bitrates for excellent quality and minimal network bandwidth consumption.



Features

- HDMI Inputs up to 1920x1200@60Hz
- Encoding with 30fps and 4:2:0 in H.264 or H.265
- Standard Ethernet Network operation with 10/100 Mbps
- Unicast and multicast through RTSP
- Open encoding allows for third-party software decode (e.g. VLC)
- Compatible with all VuWall products with decoding feature

VuStream E110 Encoder Technical Specifications

Model	VuStream E110 Encoder
Hardware	
Network	1x 100Mbit/s LAN
Dimensions	8.8cm W × 6.12cm D × 1.65cm H (3.46" W x 2.41" D x 0.65" H)
Weight	160g (5.6oz.)
Power Supply	100-240V AC In, 5VDC Out, 1,5W
Inputs / Outputs	
Video Input	1x HDMI (Type A) with audio support
Video Output/Pass-Through	1x HDMI (Type A) with audio support
Maximum Capture Resolution	1x 1920x1200 @60Hz
Encoding	
Streaming Protocols	RTSP
Formats (Codecs)	H.264 & H.265 with 4:2:0 color format
IP Stream Support	unicast, multicast
Bandwidth Range	100kbps to 25Mbps (adjustable)



VuStream E110 Encoder



VuStream E110 Encoder

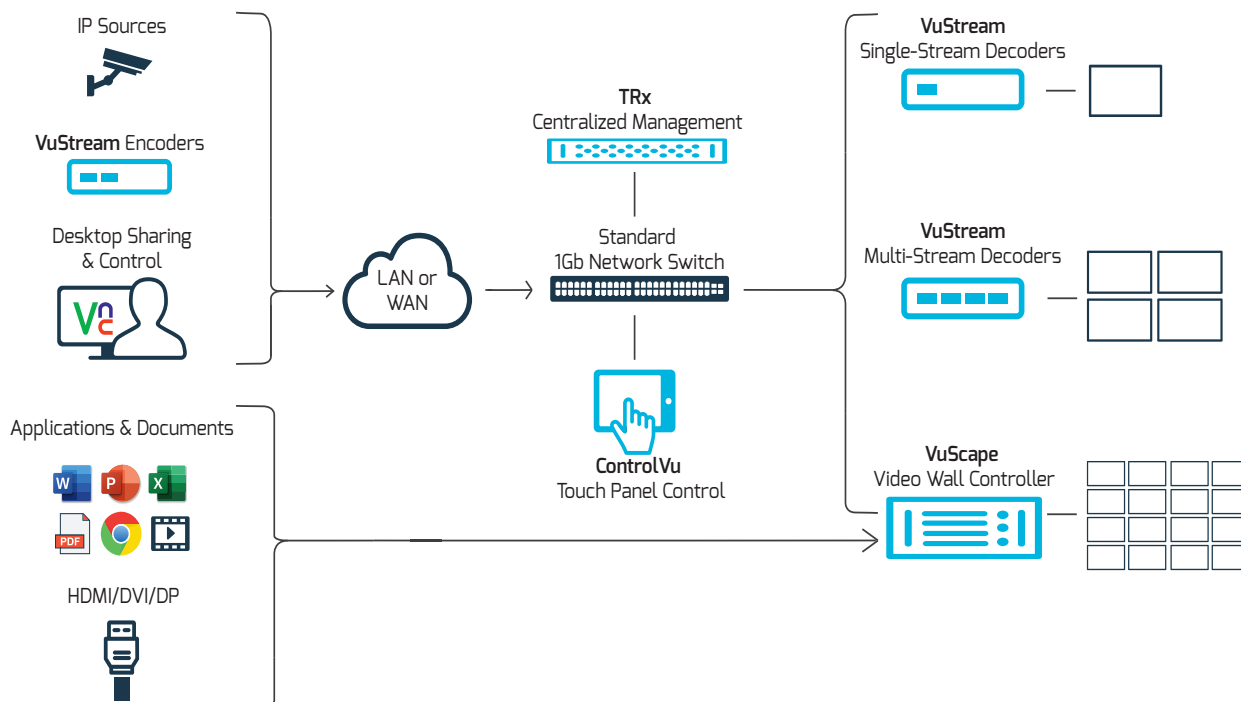
VuStream E210 - E220 - E240 Encoders

H.264 HDMI Video Encoders

The VuStream E200 Series of encoders transmit HDMI signals up to 3840p60 resolution over standard networks using H.264. Stream either unicast or multicast to the VuScape controller decoding cards or to standard players like VLC. The VuStream E200 Series can be set with user-defined low bitrates for excellent quality and minimal network bandwidth consumption. It can also record to a shared network or NAS drive.



The VuStream E200 Series of encoders is a high quality, cost effective video over IP solution featuring an open hardware architecture for interoperability, excellent I/O functionality, and powerful software features.



Features

- HDMI and digital audio inputs or analogue audio inputs
- H.264 compression for high-quality, low-bandwidth AV-over-IP
- 4K/UHD with configurable multi Chroma sub-sampling in 4:4:4, 4:2:2, 4:2:0
- Open encoding allows for third-party software decode (e.g. VLC)
- Standard Ethernet Network operation with 10/100/1000 Mbps
- Unicast and multicast through UDP, RTP & RTSP
- Compatible with all VuWall solutions

VuStream E210, E220, E240 Technical Specifications

Model	VuStream E210	VuStream E220	VuStream E240
Hardware			
Network	1x 1Gb/s LAN	2x 1Gb/s LAN	2x 1Gb/s LAN
Dimensions	21.6 W x 2.6 D x 10.2 H cm (8.50" x 1.02" x 4.01")	21.7 W x 18.9 D x 4.3 H cm (8.54" x 7.44" x 1.69")	21.7 W x 18.9 D x 4.3 H cm (8.54" x 7.44" x 1.69")
Power Supply	100-240V AC In, 5VDC Out, 15W	100-240 VAC in, 12 VDC out, 60W	100-240 VAC in, 12 VDC out, 60W
Inputs / Outputs			
Video Input	1x HDMI (Type A) with audio support	2x HDMI (Type A) with audio support	4x HDMI (Type A) with audio support
Video Output/Pass-Through	1x HDMI (Type A) with audio support	2x HDMI (Type A) with audio support	4x HDMI (Type A) with audio support
Maximum Capture Resolution	1x 1920x1200 @60Hz 4:2:0	<ul style="list-style-type: none"> • 2x 3840x2160 @60Hz 4:2:0 • 1x 4096x2160 @60Hz 4:2:0 • 2x 3840x2160 @30Hz 4:2:0 • 2x 4096x2160 @30Hz 4:2:0 • 1x 3840x2160 @30Hz 4:4:4 • 2x 1920x1080 @60Hz 4:4:4 • 2x 1920x1200 @60Hz 4:2:0 	<ul style="list-style-type: none"> • 2x 3840x2160 @60Hz 4:2:0 • 1x 4096x2160 @60Hz 4:2:0 • 4x 3840x2160 @30Hz 4:2:0 • 3x 4096x2160 @30Hz 4:2:0 • 1x 3840x2160 @30Hz 4:4:4 • 3x 1920x1080 @60Hz 4:4:4 • 4x 1920x1200 @60Hz 4:2:0
Encoding			
Profiles	Baseline (BP), Main (MP), High (HiP)	Baseline (BP), Main (MP), High (HiP), High 10 (Hi10P), High 4:2:2 (Hi422P), High 4:4:4 predictive profile separate plane (Hi444PP), CAVLC 4:4:4 intra (44)	Baseline (BP), Main (MP), High (HiP), High 10 (Hi10P), High 4:2:2 (Hi422P), High 4:4:4 predictive profile separate plane (Hi444PP), CAVLC 4:4:4 intra (44)
Streaming Protocols	RTSP/RTP/RTCP (all required) over UDP	RTSP/RTCP/RTP (all required), RTP, RTMP, MPEG-2 TS over UDP Formats (Codecs)	RTSP/RTCP/RTP (all required), RTP, RTMP, MPEG-2 TS over UDP Formats (Codecs)
Formats (Codecs)	Video: H.264/MPEG-4 Part 10 (AVC) Audio: MPEG-4 AAC-LC	Video: H.264/MPEG-4 Part 10 (AVC) Audio: MPEG-4 AAC-LC/HEV1/HEV2 IP Stream	Video: H.264/MPEG-4 Part 10 (AVC) Audio: MPEG-4 AAC-LC/HEV1/HEV2 IP Stream
Network Standard	unicast, multi-unicast, multicast	unicast, multi-unicast, multicast	unicast, multi-unicast, multicast
Levels	up to 4.1	up to 5.1	up to 5.1
Bandwidth Range	100kbps to 25Mbps (adjustable)	100kbps to 125Mbps (adjustable)	100kbps to 125Mbps (adjustable)



VuStream E210



VuStream E220/240

VuStream D210 Decoder

Compact IP Decoder

The VuStream D210 decoder can display and decode streams up to 1920x1080p60. The decoder has a standard ethernet gigabit network connection. With its compact size, it can easily be installed behind a display or video wall and managed with VuWall's TRx AV network management software.



Features

- Decoding up to 1080@60p streams
- Compatible with any H.264 RTSP stream
- One RJ45 1Gbit network connection
- HDMI with analog audio support
- Compatible with the VuWall TRx solution to manage and control multiple devices

Technical Specifications

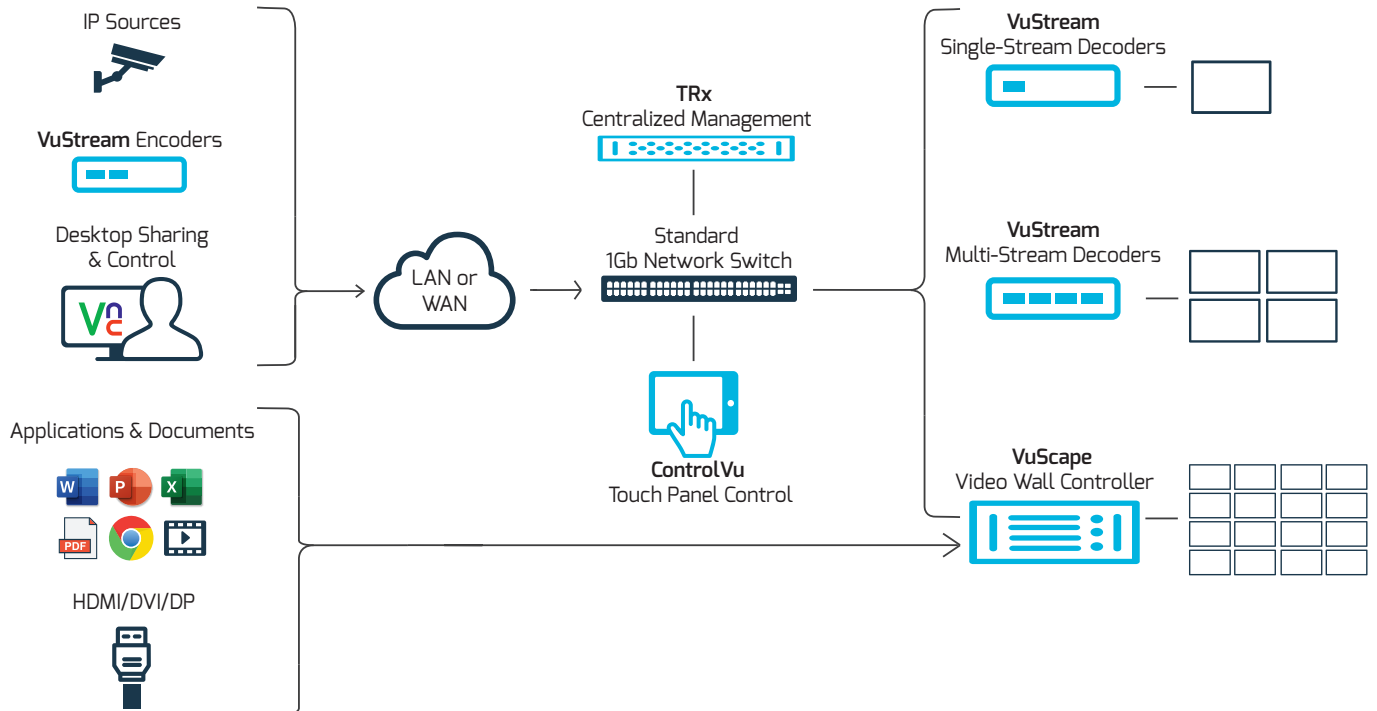
Model	VuStream D210
Hardware	
Network	2x 1GB/s LAN
Dimensions	12.83cm W x 2.59cm D x 10.9 H (5.05" W x 1.02" D x 4.29" H)
Power Supply	100-240 VAC in, 5 VDC out, 15W
Weight	286g (10oz.)
Outputs	
Video Output Type	HDMI with digital L-PCM audio
Video Output Resolution	Max 1920x1200 @ 60Hz
Audio Line Output	Audio Line-Out 3.5mm analog stereo audio
Decoding	
Profiles	Main (MP)
Streaming Protocols	RTSP/RTP/RTCP (all required) over UDP
Formats (Codecs)	H.264/MPEG-4 Part 10 (AVC), Up to Level 5.2
IP Stream Support	unicast, multi-unicast, multicast
Decoder Bitrate	100 kbps to 25 Mbps
Network	
IP Stream Support	IPv4/IPv6
IP Adresses	DHCP (Default) and Static IP

VuStream D240M Decoder

Compact IP Video Wall Processor with Multi-Decoding

The VuStream D240M is a multi-decoder that works as an IP Video Wall processor and can display and decode multiple high-density streams and drive up to four 4K displays. Multiple devices can be combined to drive larger video walls.

This multi-decoder can decode any H.264 stream from encoders, cameras, or other devices up to 4:4:4 color format. The VuStream D240M decoder has a standard ethernet gigabit network connection. With its compact size, it can easily be installed behind a display or video wall and managed with VuWall's TRx AV network management software.



Features

- Multiple decoding up to 16x 1080@30p or 4x 4K@30p streams
- Compatible with any H.264 RTSP stream
- Decoding up to 4:4:4, 4:2:2, 4:2:0 color formats
- One RJ45 1Gbit network connection
- Up to 4x Mini-DP outputs at 3840x2160@30Hz
- Multiple devices can be driven together to create large video walls
- Compatible with the VuWall TRx solution to manage and control multiple devices

VuStream D240M Decoder Technical Specifications

Model	VuStream D240M
Hardware	
Network	1x 1Gb/s LAN
Dimensions	15.2cm W x 26.2cm D x 5.4cm H (5.98" W x 10.31" D x 2.12" H)
Power Supply	100-240 VAC in, 12 VDC out, 60W
Weight	1.15kg (2.53lbs)
Outputs	
Video Output Type	4 x Mini DisplayPort with audio support
Video Output Resolution	4096x2160 @30Hz, 3840x2160 @60Hz*, 3840x2160 @30Hz, 2560x1600 @60Hz
Decoding	
Maximum Decoding	<ul style="list-style-type: none"> • 2x 3840x2160 @60Hz • 4x 3840x2160 @30Hz • 8x 1920x1080 @60Hz • 16x 1920x1080 @30Hz • 32x 1280x720 @60Hz Numerous SD IP channels
Profiles	Baseline (BP), main (MP), high (HiP), high 10 (Hi10P), high 4:2:2 (Hi422P), high 4:4:4 predictive profile separate plane
Streaming Protocols	RTSP, RTP, RTMP, MPEG-2 TS over UDP Formats, SRT (Codecs)
Formats (Codecs)	H.264/MPEG-4 Part 10 (AVC), Up to Level 5.2
IP Stream Support	unicast, multi-unicast, multicast
Decoder Bitrate	100 kbps to 800 Mbps
Network	
Connection	RJ45, Ethernet 10/100/1000 Base-T, Auto-Detect, Half/Full-Duplex
IP Stream Support	IPv4/IPv6
IP Adresses	DHCP (Default) and Static IP



VuStream D240M Decoder



VuStream D240M Decoder Rear

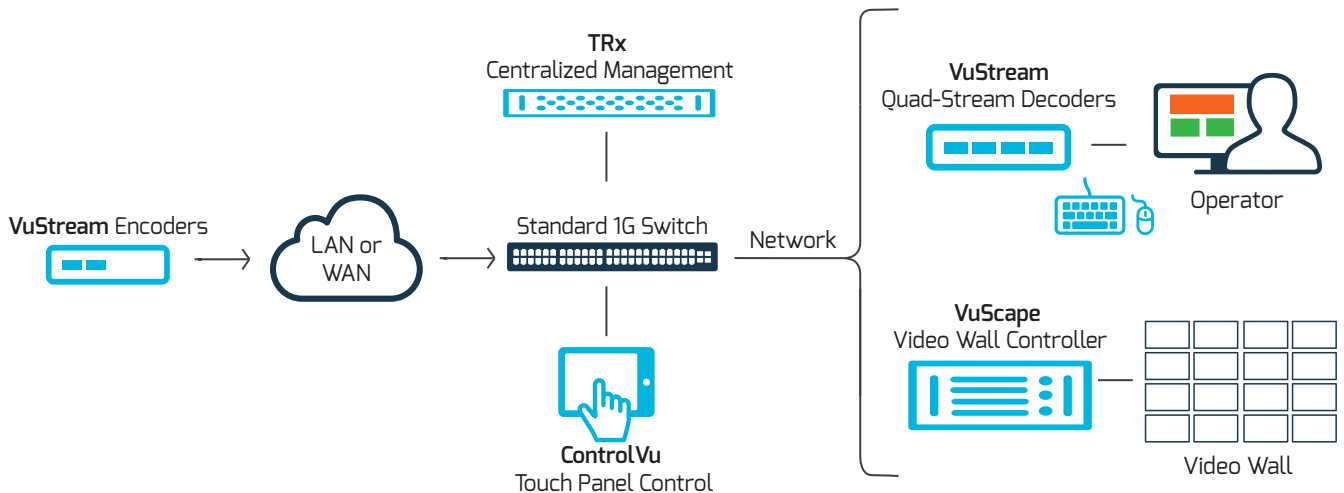
VuStream 300 Series Encoders/Decoders

Fully Integrated IP-KVM Solution

VuStream 300 is an IP-KVM encoder and decoder solution that delivers 4Kp60 4:4:4 UHD performance and quad-monitor capabilities over standard Gigabit Ethernet at unprecedented low bitrates.



VuStream 300 can be configured as a point-to-point or as a networked KVM matrix delivering multiple video, keyboard, mouse, USB and audio signals using a single fiber or copper cable. It works with standard network switches to deliver a scalable IP-KVM matrix solution. VuStream 300 is also compatible with VuWall's VuScope Series 2 Video Wall Controllers and standalone decoders to display content directly on monitors or video walls without requiring additional equipment.



Features

- Full IP-based KVM encoder and decoder solution
- Dual or Quad encoders and decoders
- Extend signals up to 3840x2160 @60Hz at a very low bitrate with very high quality in 4:4:4
- Standard 1G Ethernet network operation
- Easy configuration of a scalable KVM matrix over IP with unicast and multicast support
- View and control multiple sources simultaneously and work more efficiently on one station; take control of a remote source easily by moving the mouse to the target source
- Streams can be directly decoded on any VuScope Series 2 controller or standalone decoder
- Full control via TRx management platform *Available Q4-2020

VuStream 300 Series Technical Specifications

Model	VuStream E320	VuStream E340	VuStream D320	VuStream D340
Hardware				
Network	1x 1Gb/s LAN or 1x SFP cage - (single-mode transceivers, sold separately) Unicast - Multicast Network			
Dimensions	21.66cm W x 8.9cm D x 4.26cm H (8.5" x 3.5" x 1.67")			
External Power Supply	100-240V AC In, 12VDC Out, 15W			
Inputs / Outputs				
Video	2x DP with audio support	4x DP with audio support	4x DP with audio support	4x DP with audio support
Audio	Line-In/Out, Audio 3,5mm or over DP	Line-In/Out, Audio 3,5mm or over DP	Line-In/Out, Audio 3,5mm or over DP	Line-In/Out, Audio 3,5mm or over DP
Maximum Capture Resolution	2x 1920x1200 @60Hz 1x 2560x1600 @60Hz	1x 3840x2160 @60Hz 2x 3840x2160 @30Hz 3x 1920x1200 @60Hz 4x 1920x1080 @60Hz 4x 1920x1200 @50Hz 2x 2560x1600 @60Hz	2x 1920x1200 @60Hz 1x 2560x1600 @60Hz	1x 3840x2160 @60Hz 2x 3840x2160 @30Hz 3x 1920x1200 @60Hz 4x 1920x1080 @60Hz 4x 1920x1200 @50Hz 2x 2560x1600 @60Hz
Encoding / Decoding / Control				
Color Format	4:4:4	4:4:4	4:4:4	4:4:4
USB	1x USB 2.0 Type B	1x USB 2.0 Type B	4x USB 2.0 Type A	6x USB 2.0 Type A
KVM Modes	Point to Point Point to Multipoint Multi-Source Control Multiview *Available Q4-2020			
Control	OSD-Menu or Shortkeys			
Management	Control via TRx software *Available Q4-2020			



VuStream E320 Encoder



VuStream D320 Decoder



VuStream E340 Encoder



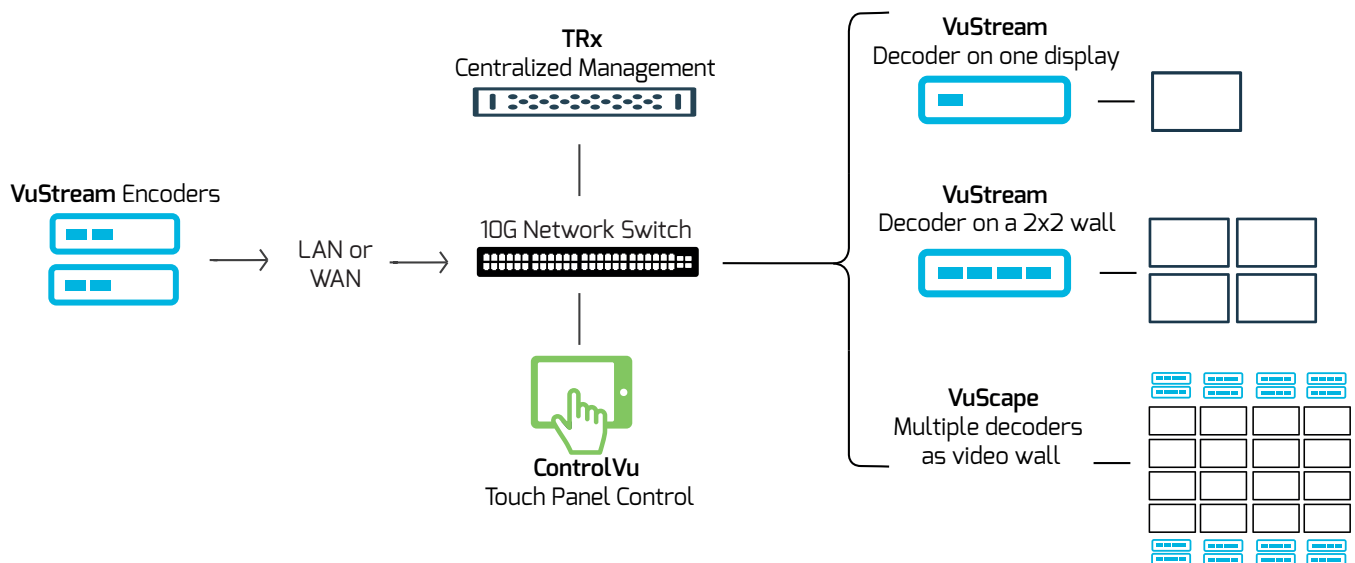
VuStream D340 Decoder

VuStream 500 Series Encoders & Decoders

The VuStream 500 is a series of encoder and decoder appliances based on the SDVoE standard, designed for distributing uncompressed 4K60 video and audio over standard IP network switches with no latency. By using standard 10Gb hardware, the solution is ultra-scalable, easy to deploy and highly reliable.



The VuStream 500 series enables the extension, switching and compositing of realtime signals. Compared to proprietary matrix switches, this technology provides a completely new way of distributing signals. In combination with the VuWall TRx centralized management platform, this solution simplifies the management and deployment of devices, saving system integrators a significant amount of time and money.

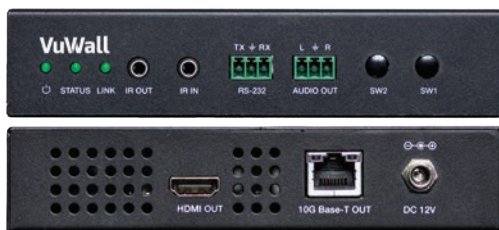


Features

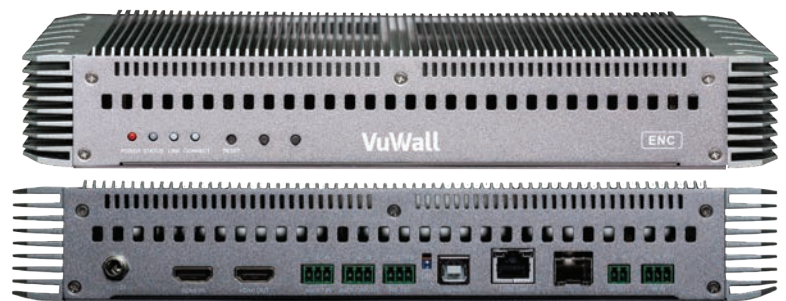
- Distributes uncompressed 4K60 4:4:4 digital video over standard 10G networks
- HDMI 2.0 with HDCP 2.2 support
- Support digital audio formats: LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS HD Master Audio
- Full SDVoE™ compatibility with no latency and 128-bit AES encryption
- Seamless switching between sources
- Use as a matrix switcher or create video walls and switch any source on it
- Fully compatible with the TRx centralized management software to configure and manage appliances

VuStream 510 and 511 Technical Specifications

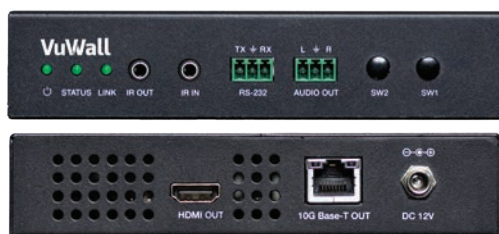
Model	VuStream E510	VuStream D510	VuStream E511	VuStream D511
Hardware				
Ethernet Network	1x 10Gb/s LAN with RJ45			
Fiber Network	NA		1x 10GB/s LAN SFP Fiber	
Dimensions	15cm W x 9.8cm D x 3.2cm H (5.9" x 3.8" x 1.2")		29.7cm W x 15cm D x 4.8cm H (11.7" x 5.9" x 1.9")	
Power Supply	100-240V AC In, 20W			
Inputs / Outputs				
Video Input	1x HDMI (Type A) with audio support	NA	1x HDMI (Type A) with audio support	NA
Video Output/Pass-Through	NA	1x HDMI (Type A) with audio support	NA	1x HDMI (Type A) with audio support
Video Format	HDMI 2.0 with HDCP 2.2		HDMI 2.0b with HDCP 2.2	
Maximum Capture Resolution	1x 4096x2160@60Hz 4:4:4			
Audio Format	LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS HD Master Audio			
Features				
Streaming Protocol	SDVoE - uncompressed			
Matrix Mode	Yes			
Video Wall Mode	No	No	No	Yes



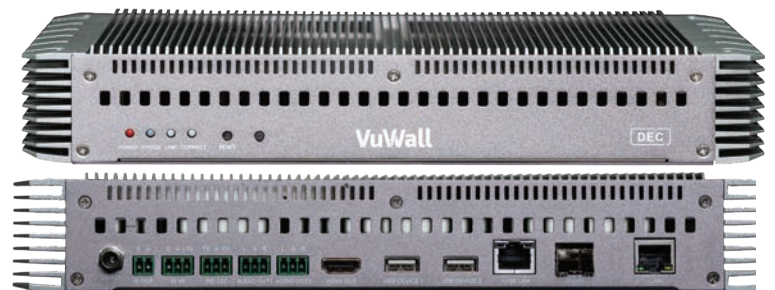
VuStream E510



VuStream E511



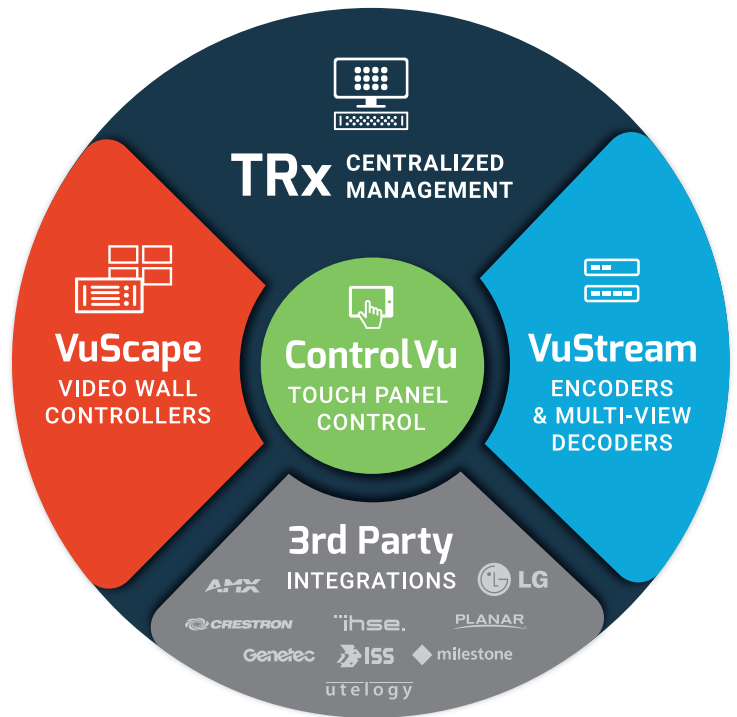
VuStream D510







VuStream D511

VuWall Ecosystem

The VuWall ecosystem of interoperable products provides the most effective distribution of any source to any display surface throughout entire organizations. VuWall is bridging AV and IT with a hybrid AV-over-IP video wall control system and a standards-based management platform. VuWall solutions have set a new industry benchmark in facilitating video wall deployments and ease of use.



Extend the Power of VuStream

 <p>VuScape VIDEO WALL CONTROLLERS</p> <p>LEARN MORE</p>	 <p>TRx CENTRALIZED MANAGEMENT</p> <p>LEARN MORE</p>	 <p>ControlVu TOUCH PANEL</p> <p>LEARN MORE</p>	 <p>KM Module KVM & OPERATOR VISUALIZATION</p> <p>LEARN MORE</p>
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