VuWall

VuScape

Custom Video Wall Controller

Visualization solutions for professional and mission-critical applications

VuScape™ is a high-performance video wall processor ideal for small or large video wall deployments with custom requirements, in control rooms and corporate workspaces. Easily control and distribute all content sources to any display on your network with the utmost flexibility and full-featured management software.

Features

- Power up to 96 displays with a single controller
- Capture up to 40x 4K sources with a single controller
- Mix baseband and IP sources on the same controller (Multiple 4K HDMI/Display Port inputs)
- Display up to 160 HD IP streams simultaneously
- Decoding of IP streams through hardware up to 4K
- Display an unlimited number of windows per screen

- NVIDIA Quadro GPU with 3D Acceleration available
- Encoding of HDMI inputs or of the video wall up to 4K
- Single chassis solution for a simplified deployment
- 24-bit true color image processing at full frame rate
- Support for standard Windows applications
- Dependable for 24/7 mission-critical operations

User Friendly
Video wall control made easy. Our systems are easy to deploy, easy to use and easy to manage.

Future Proof
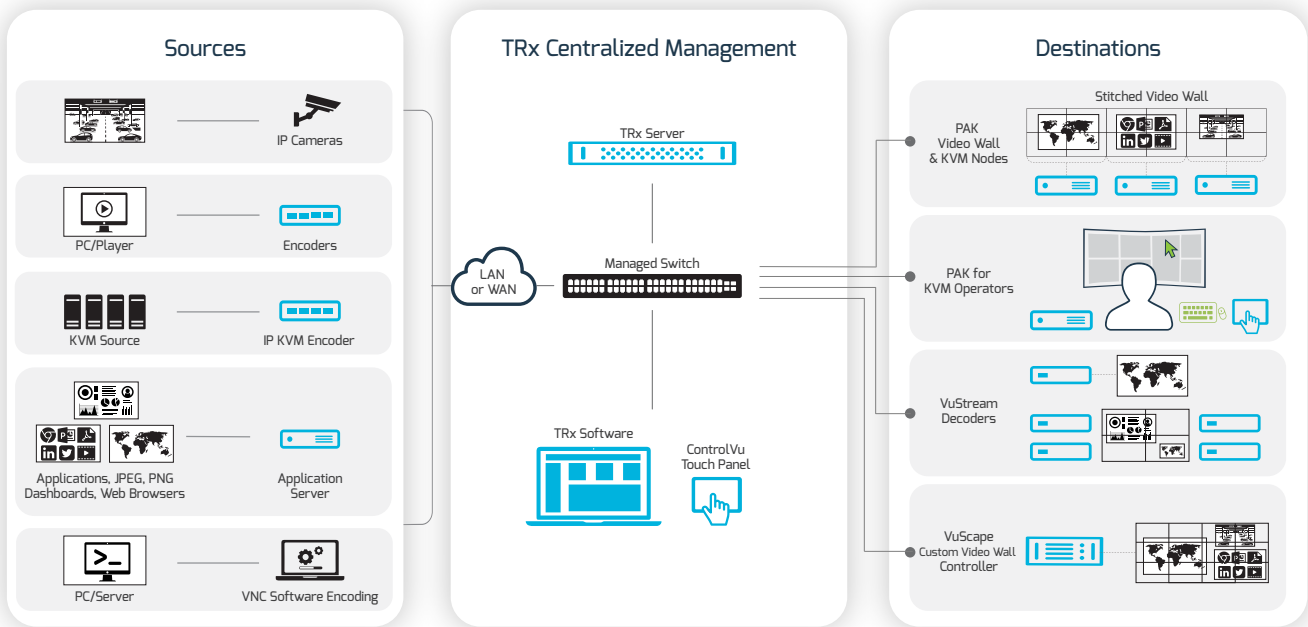Open architecture, standards-based, and interoperable with 3rd party solutions.

Dependability
Optimized for real-time throughput providing reliable 24/7 operations.

Modular And Scalable
Only buy what you need. Our system can grow with you as you needs change.

Need help? Talk to a video wall expert!
Contact us at sales@vuwall.com

vuwall.com
Control what you see.

VuWall

Workflow

Sources

IP Cameras

PC/Player — Encoders

KVM Source — IP KVM Encoder

Applications, JPEG, PNG Dashboards, Web Browsers — Application Server

PC/Server — VNC Software Encoding

TRx Centralized Management

TRx Server

LAN or WAN

Managed Switch

TRx Software

ControlVu Touch Panel

Destinations

PAK Video Wall & KVM Nodes — Stitched Video Wall

PAK for KVM Operators

VuStream Decoders

VuScape Custom Video Wall Controller

Applications

Control Rooms

VIDEO WALL CONTROL AND KVM

Corporate Workspaces

MULTI-SOURCE VISUALIZATION

Experience Centers

VERSATILE DISPLAY MANAGEMENT

Crisis Rooms

UNIFIED VISUALIZATION

Lobby Signage

CONTENT MANAGEMENT AND DISTRIBUTION

Classrooms and Auditoriums

PRESENTATION AND COLLABORATION

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Selecting the Right VuScape Video Wall Controller

VuScape	VS10	VS60	VS120	VS280	VS640
IDEAL FOR	Small video wall with limited space and network sources only	Small video wall with limited space and need for GPU and decoding	Midsize video wall with many inputs & outputs requiring GPU and more IP decoding power	Midsize video wall with even more inputs & outputs requiring GPU & more IP decoding power	Large video wall with many inputs, outputs and IP decoding
FORM FACTOR	VESA Mount	Tower	Rackmount 4RU	Rackmount 4RU	Rackmount 4RU each
MAX OUTPUTS	4x 4K	4x 4K	16x 4K	16x 4K	24x 4K or 32x HD
MAX INPUTS	-	4x 4K	12x 4K	24x 4K	32x 4K and/or 64x HD
MAX SIMULTANEOUS IP STREAMS	16x HD / 2x 4K	16x HD / 4x 4K	48x HD / 12x 4K	96x HD / 24x 4K	192x HD / 48x 4K
SOURCES	RTSP, websites, VNC, pictures, text, video files and Windows applications				

Features

Powerful Management Software
Intuitive software, whether it's TRx, benefit from an unlimited number of ways to control and manage video walls.

Big Data Visualization
VuScape can display any kind of content coming from cloud/network based solutions such as websites, data, third-party SCADA, business analytics and social media data.

Bridging AV and IT
VuWall's unique hybrid and interoperable technology, capture all types of sources with one system and seamlessly integrate with the entire ecosystem.

Touch Panel Control
Give operators the freedom to change layouts and control devices with a simple touch. Create fully customized panels from our web-based control panel designer, quickly and easily, without any programming skills.

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VuScape Series 2 Technical Specifications

Product Name	VuScape VS60-2
Hardware	
CPU	Intel® i5 - 14500
RAM	32 GB
SSD	512GB SSD
Network	1x 1GbE LAN
Weight	6.2 kg | 13.67 lbs
Case	Minitower
Dimensions	356 x 169 x 385 mm (WxDxH) 14 x 6.7 x 15.16" (WxDxH)
Power Supply	100-240V –700W
Operating Conditions	Temperature 5-35°C (40-95°F) I Humidity 10%-85%
Warranty	3 years
Software	
OS	Windows 10 Enterprise LTSC 64bit
Management	TRx Centralized Management Platform
Outputs	
HDMI	Up to 4x HDMI 2.0
Resolution	4096x2160@60Hz per output
Inputs	
HDMI	Up to 4x HDMI 1.4
Resolution	4096x2160@30Hz or 4096x2160@60Hz (4:2:0) per input
Decoding	
Host CPU Decoding Capability	Default software decoding of 16x D1 or 8x HD (H.264/MPEG-4 Part 10, MPEG-2, MPEG-4)
Optional Card Decoding Capability	Up to 4x 3840x2160@30Hz or 8x 1920x1080@60Hz or 16x 1920x1080@30Hz or 48x D1 or any mix thereof without exceeding limits
Stream Format	Protocols: RTSP, RTP, MPEG-2-TS; Distribution: unicast & multicast; Codec: H.264 (MPEG-4 Part 10 AVC) up to Level 5.2; Profiles: Baseline, Main, High, High 10, High 4:2:2, High 4:4:4 Predictive Profile Separate Plane

Available Part Numbers*

VS60-2-4HO	VuScape VS60 with 4x HDMI Outputs
VS60-2-4HO-4HF	VuScape VS60 with 4x HDMI Outputs and 4 x HDMI inputs
VS60-2-4HO-4HF-16IPD	VuScape VS60 with 4x HDMI Outputs, 4 x HDMI inputs and IP Decoding capability on a physical card.

*All part numbers support CPU host Decoding Capability.

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VuScape Series 2 Technical Specifications

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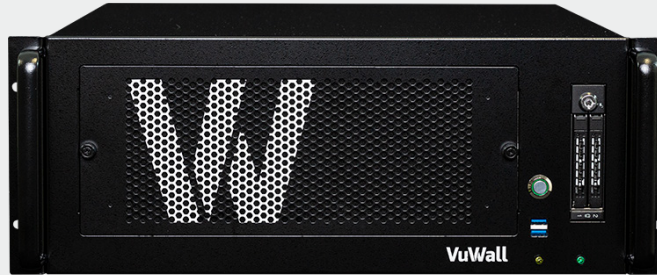| Product Name	VuScape VS120-2	VuScape VS280-2
Hardware		
CPU	Intel® Xeon® 8-core Silver 2.1GHz	Intel® Xeon® 8-core Silver 2.1GHz
RAM	32GB	
SSD	1x 500GB SSD Optional: 2 x 500GB SSD RAID1	2x 500GB SSD RAID1
Backplane	4x Slot PCI Express x16	7x Slot PCI Express x16
Network	1x 10GbE + 1x 1GbE	1x 10GbE + 1x 1GbE + 1x 1GbE IPMI
Weight	21-25 kg (shipping weight: 32 kg) ┃ 46.3-55.1lbs (shipping weight: 70.5lbs)	
Case	19" 4RU case	
Dimensions	428 x 467 x 176 mm (WxDxH) 16.85 x 18.38 x 6.93" (WxDxH)	
Power Supply	100-240 VAC, 650W	100-240 VAC 2x800W Hotplug, Redundant
Operating Conditions	Temperature 0-35°C (32-95°F) ┃ Humidity 20-80%	
MTBF	100,000hrs (Fans = 70,000 hrs)	
BTU	Max. 1700BTU/h to Max. 2500BTU/h	
Noise Level	30dB up to 45dB (Depends on system config + room temperature)	40dB up to 65dB (Depends on system config + room temperature)
Warranty	3 years	
Software		
OS	Windows 10 Enterprise LTSC 64bit	
Management	TRx Centralized Management Software	
Recovery	Easy backup and recovery USB	
Outputs		
Max. Number of Outputs	Up to 12x	Up to 16x (64x with AdScape)
Configuration	High End NVIDIA Quadro GPU with 4x outputs per card / Max. 32,768x32,768 pixel per system	
Resolution	VS-2-4HO card: HDMI, 4x 4096x2160@60Hz per card VS-2-4DO card: DisplayPort 1.4, 4x 5120x3200@60Hz per card	
Inputs		
Display Port 1.2	Up to 6x	Up to 12x
HDMI 1.4	Up to 12x	Up to 24x
SDI	6x3G and 6x12G	12x3G and 12x12G
Resolution	DisplayPort up to 3840x2160 and 4096x2160@60Hz, HDMI up to 3840x2160@30Hz up to 3840x2160@60Hz (4:2:0) 4096x2160@60Hz (4:2:0), 4096x2160@30Hz, SDI up to 3840x2160@60Hz (4:2:2)	
Encoding / Decoding		
Host CPU Decoding Capability	Default software decoding of 16x D1 or 8x HD (H.264/MPEG-4 Part 10, MPEG-2, MPEG-4)	
Optional Card Decoding Capability	48x 1080p30 or 12x 4K30 per system	96x 1080p30 or 24x 4K30 per system
Resolution	4x 4Kp30 / 16x 1080p30 / 8x 1080p60 /48x D1 per encoding or decoding card	
Stream Format	Protocols: RTSP, RTP, MPEG-2-TS, SRT; Distribution: unicast & multicast; Codec: H.264 (MPEG-4 Part 10 AVC) up to Level 5.2; Profiles: Baseline, Main, High, High 10, High 4:2:2, High 4:4:4 Predictive Profile Separate Plane	
Encoding and Recording	Encoding and recording of HDMI input sources and area of interest of the wall Maximum 4K per encoding channel or an area	

VuScape Series 3 Technical Specifications

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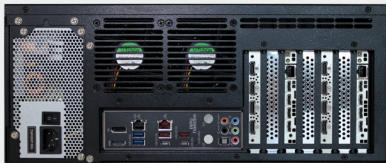| Product Name	VuScape VS640-3
Hardware	
CPU	Intel® i7 3.6GHz
RAM	32GB
SSD	2x 500GB SSD, RAID1
Backplane	11xSlot PCIe x16
Network	2x 1GbE
Weight	21-25 kg (shipping weight: 32 kg) | 46.3-55.1 lbs (shipping weight: 70.5 lbs)
Case	19" 4 RU case
Dimensions	428 x 467 x 176 mm (WxDxH) 16.85 x 18.83 x 6.93" (WxDxH)
Power Supply	100-240 VAC 800W using redundant N +1 hot swappable modules
Operating Conditions	Temperature 0-35°C (32-95°F) | Humidity 20-80%
MTBF	100,000 hrs. (Fans = 70,000 hrs.)
BTU	Max. 2,500 BTU/h
Noise Level	40dB up to 65dB (Depends on system config + room temp)
Warranty	3 years
Software	
OS	Windows 10 Enterprise LTSC 64bit
Management	TRx Centralized Management Software
Recovery	Easy backup and recovery USB
Outputs	
Max number of Outputs	HDMI: Up to 24x 3840x2160@60Hz or up to 32x 1920x1080@60Hz Up to 96x 1920x1080@60Hz w/AdScape or up to 32x 1920x1080@60Hz
Configuration	4x outputs per card / Max. 32,768 x 32,768 pixel per system
Inputs	
DisplayPort 1.2 With HDCP 1.4 Support	Up to 32x (expandable)
HDMI With HDCP 2.2 Support	Up to 32x (expandable)
DVI/VGA/HDMI	Up to 64x (expandable)
Resolution	Up to 4096x2160@60Hz (DP1.2 and HDMI) up to 3840x2160@30Hz (HDMI 1.4) 1920x1200 (DVI/VGA), 1080i (component)
Analog Inputs	Up to 128x
Formats	Composite/S-Video with NTSC/PAL/SECAM (8x per board)
SDI Inputs	Up to 64x
Formats	3G-SDI, HD-SDI and SDI (SMTPE 352 Payload Identifiers)
Decoding	
Host CPU Decoding Capability	Default software decoding of 16x D1 or 8x HD (H.264/MPEG-4 Part 10, MPEG-2, MPEG-4)
Optional Card Decoding Capability	192x 1080p30 or 48x 4K30 per system
Resolution	3x 4Kp30 / 12x 1080p30 / 6x 1080p60 / 50x D1 per VS-3-12HDIPD decoding card
Stream Format	Protocols: HTTP, RTSP, RTP, UDP Containers: MPEG4 part 1, MPEG2-TS, WMV, MOV Distribution: unicast & multicast Codec: H.264 (MPEG4 Part 10 AVC), VC-1, MPEG2 Part 2 & MJPEG

VuScape VS10 Technical Specifications

Product Name	VuScape VS10-4
Part Number	VuScape VS10-4DO-16IPD
Hardware	
CPU	Intel® i5 3,6GHz
RAM	16GB
SSD	1x 256GB SSD
Network	1x 1GbE LAN
Weight	1.4 kg | 3 lbs
Chassis	Slim metal chassis, black
Dimensions	179 x 183 x 37 mm (WxDxH) 7.0 x 7.2 x 1.5" (WxDxH)
Power Supply	External Power Supply with 100-240 VAC, 170W
Operating Conditions	Temperature 0-35°C (32-95°F) | Humidity 20-80%
MTBF	50,000hrs
Noise Level	Max. 30dB (Depends on system config and room temperature)
Warranty	3 Years
Software	
OS	Windows 10 Enterprise LTSC 64bit
Management	TRx Centralized Management Software
Outputs	
Connections	4x mDP including 4x HDMI adaptors
Configuration	1x1, 2x1, 3x1 or 2x2 (Optional: 4x4 in Daisy-Chain)
Resolution	Up to 4096x2160@60Hz
Inputs	
HDMI	Optional: HDMI source over VuStream encoder
Browser	Up to 8x web browser windows (using built-in Chromium engine)
Decoding	
Host CPU Decoding Capability	16x 1080p30 or 4x UHD30
Streaming Standards	Protocols: HTTP, RTSP, RTP, UDP; Distribution: unicast & multicast; Codec: H.265, H.264 (MPEG-4 Part 10 AVC), MPEG-2 Part 2, MJPEG

VuScape Series

VuScape VS120, VS280, VS640

VuScape VS120-2 Rear

VuScape VS280-2 Rear

VuScape VS640-3 Rear

VuScape VS60-2 Front

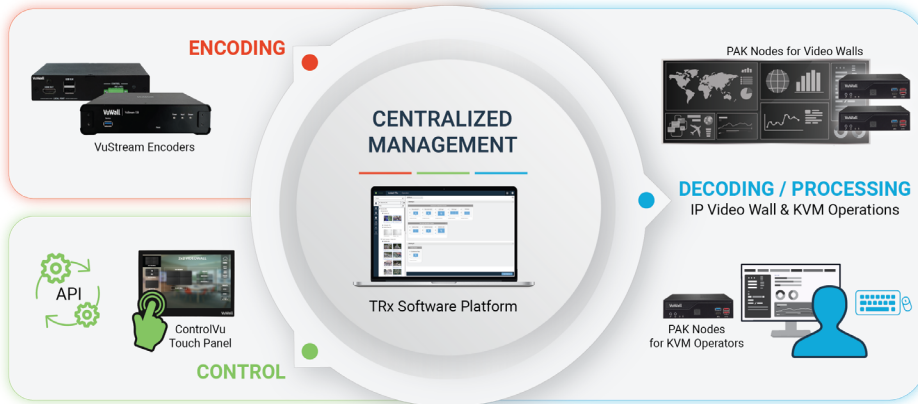*VuScape VS10-4 Front*

VuScape VS10-4 Rear

*Images shown here are not proportional. Please consult technical specifications for dimensions.

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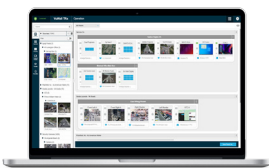vuwall.com

The VuWall Ecosystem
Unified Visualization & Video Wall Control

The VuWall ecosystem of interoperable products is built on a unique standards-based architecture that provides the most effective distribution of visual information, from any source to any display throughout organizations.

At the center of the ecosystem is the TRx Centralized Management Platform. TRx bridges AV, IT and IP systems ensuring interoperability and ease of use, simplifying AV-over-IP deployments, thus reducing deployment time and integration risk.

Video Wall Management & AV Distribution Made Simple
From Any Source to Any Display

TRx
Centralized Management

PAK
Video Wall & KVM Nodes

VuStream
Encoders & Decoders

ControVu
Touch Panel

VuScape
Custom Video Wall Controllers

Enhancements
More Interoperable Products

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