

PAK Video Wall & KVM Nodes



Modular Video Walls & KVM for Professional and Mission-Critical Applications

PAK™ is a compact and cost-effective processing appliance that can work as a standalone unit or can be stitched to each other to build KVM operator stations and IP video walls of any size. PAK is ideal for multi-room visualization, situational awareness, control rooms, and corporate workspaces.



SIMPLE

Easy to configure, install, and manage.



VERSATILE

Utmost flexibility and scalability. One node. Endless possibilities.



RELIABLE

Minimized impact of failure. 24/7 dependability.



ECO-FRIENDLY

Smaller footprint. Low power consumption.



KVM

Control of remote sources with low latency



SECURE

High Security. No Windows updates.



EASY MAINTENANCE

Easy to replace. Easy to troubleshoot.



HIGH PERFORMANCE

Up to 8x 4K or 32x HD decodes per node

PAK Hardware



PAK ONE Front



PAK 10 & PAK 20 Front



PAK 40 Front



PAK ONE Back



PAK 10 & PAK 20 Back



PAK 40 Back

Simplified Deployment

Stitching PAK nodes together is an effortless way of creating KVM operator stations and IP video walls of any size. The PAK Configuration Tool is user-friendly and helps in configuring the system by selecting tiling arrangements, and configuring outputs and resolutions.

Easy Troubleshooting

VuWall offers a variety of potent diagnostic tools that allow for monitoring of PAK node usage and logging of activities. These tools are specifically designed for quick and easy troubleshooting and problem resolution.

Multiview with KVM

Sources from remote PCs can be controlled with keyboard and mouse via IP KVM encoders such as VuStream 350. Those source can then be displayed alongside IP streams from encoders, cameras, or TV channels.

Secure Access

Password-protected KVM environments secure installations by limiting access and control to authorized users only. This prevents unauthorized access, reduces security risks, and gives organizations stronger control over their mission-critical environments.

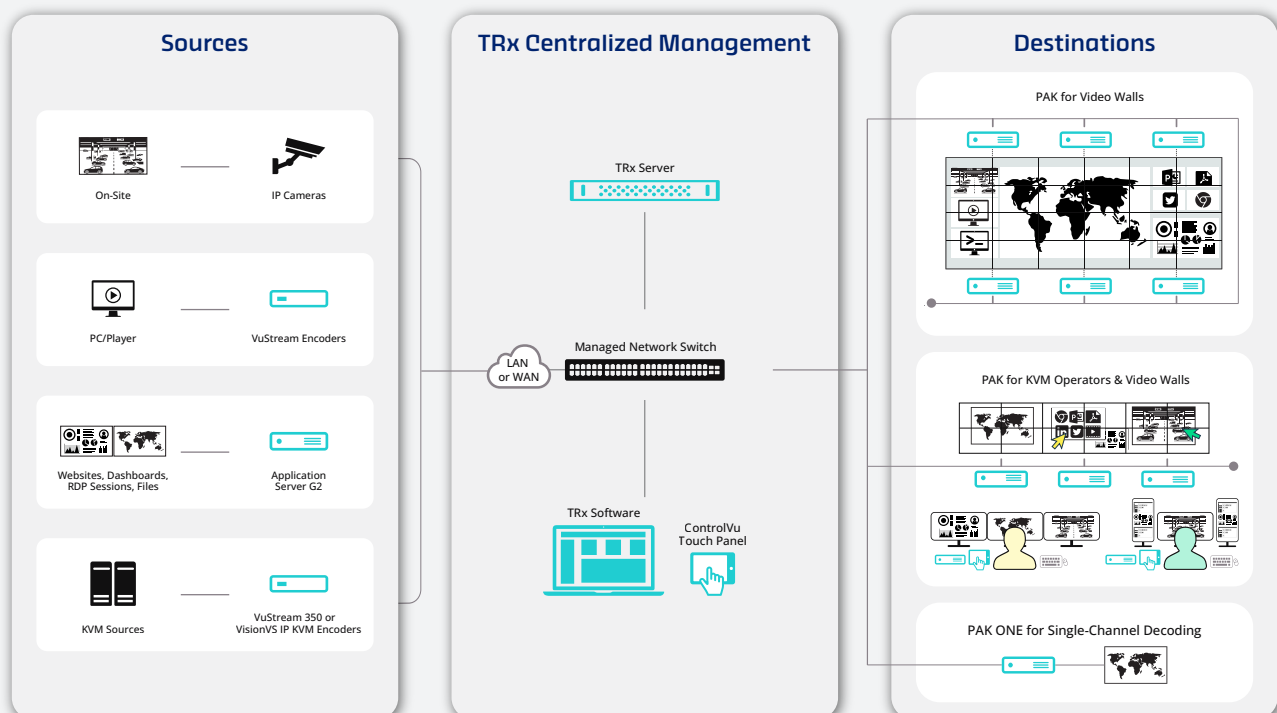
Eliminating a Single Point of Failure

With PAK's modular design, if one PAK appliance fails, only the portion of the video wall it powers are affected while the rest of the video wall stays operational. Once the unit comes back online, the impacted screens automatically recover.

Real-Time 4K60 Monitoring

The PAK-ONE model is purpose-built for decoding a single 4K60 stream and outputting it via HDMI or DisplayPort. Ideal for control room environments, it provides a dedicated, reliable solution for monitoring a single IP stream in full resolution on a standalone display.

PAK Video Wall and KVM Control - Workflow



VuWall PAK Technical Specifications



Product Name	PAK ONE	PAK 10	PAK 20	PAK 40
Part Number	PAK-ONE	PAK-10-3	PAK-20-3	PAK-40-3
Hardware				
Weight	0.48kg / 1.06lbs	1.5kg / 3.3lbs		1.42kg / 3.13lbs
Dimensions (WxDxH)	135 x 115 x 36mm (5.3 x 4.5 x 1.4")	165 x 200 x 39.5mm (6 x 7.9 x 1.5")		165 x 190 x 43mm (6 x 7.5 x 1.7")
Power Consumption	15W	22W		49W
Power Supply	65W adapter Input: 100-240 VAC, 50/60 Hz Output: 19V/3.42A DC	90W adapter Input: 100-240 VAC, 50/60 Hz Output: 19V/4.74A DC		120W adapter Input: 100-240 VAC, 50/60 Hz Output: 19V/6.32A DC
Operating Conditions & Relative Humidity, non-condensing	0-35°C / 32-95°F & 0-92%	0-40°C / 32-104°F & 10-90%		
Cooling	Fanned: Active Cooling	Fanless: Passive Cooling		Fanned: Active Cooling
Warranty	3 years			
Networking				
Connectors and Standard	1x RJ45, 2.5 GbE	2x RJ45, 1 GbE (each)	2x RJ45, 1 GbE (each)	2x RJ45, 2.5 GbE (each)
IP Version & Addressing	IPv4 and IPv6, Static IP and DHCP			
Distribution Method	Unicast and Multicast			
Required Switch	Managed Layer2 Switch with IGMP Snooping/Querier/Immediate-Leave (Fast-Leave)			
Software				
Management	VuWall TRx		VuWall TRx, On-Screen Display and Keyboard Shortcuts*	
KVM Control				
USB	Not available	Not available	2x USB-HID (for keyboard and mouse)	
KVM Modes	Not available	Not available	Point-to-Point, Point-to-Multipoint, Multi-Source Control, Multiview	
Outputs				
Connections	1x HDMI or 1x DisplayPort 1.2	1x HDMI or 1x DisplayPort 1.2	1x HDMI and/or 1x DisplayPort 1.2	2x HDMI and/or 2x DisplayPort 1.4
Max. Resolution	1 x 3840 x 2160 @ 60Hz	1x 1920x1080 @ 60Hz	1x 3840x2160 @ 60Hz or 2x 1920x1080 @ 60Hz	1x 5120x2160 @ 60Hz or 2x 5120x1440 @ 60Hz or 2x 3840x2160 @ 60Hz or 4x 1920x1080 @ 60Hz
Audio Output Format	Stereo, 48 kHz			
Decoding				
Decoding Capability***	Single stream. Up to 4K60.	16 x HD30 H.264/H.265 IP or 8 x HD60 H.264/H.265 IP or 2 x 4K30 H.264/H.265 IP or 1 x 4K60 H.264/H.265 IP (all above 4:2:0 streams) OR 1 x VNC** regardless of resolution	16 x HD30 H.264/H.265 IP or 8 x HD60 H.264/H.265 IP or 2 x 4K30 H.264/H.265 IP or 1 x 4K60 H.264/H.265 IP (all above 4:2:0 streams) OR 2 x VuStream-350**/VNC** or 2 x VuStream-350/VNC x HD or 1 x VuStream-350/VNC x UHD	32 x HD30 H.264/H.265 IP or 16 x HD60 H.264/H.265 IP or 8 x 4K30 H.264/H.265 IP or 4 x 4K60 H.264/H.265 IP (all above 4:2:0 streams) OR 8 x VuStream-350**/VNC** or 8 x VuStream-350/VNC x HD or 4 x VuStream-350/VNC x UHD
Streaming Protocols	RTSP, MPEG2-TS			
Formats	H.264, H.265, RealVNC, Standard VNC, streams from VuWall Application Server (Web Browsers, Applications, and Dashboards), proprietary streams from VuStream 350			
Supported Audio Format	AAC, 32kHz to 96kHz			
Mounting Hardware				
VESA	75/100mm (Hardware included)			
Rackmount (Sold Separately)	Universal Rackmount	Rackmount Kit Available to Mount 2x PAKs		
Rackmount Part Number	UNIVERSAL-1U-RACKMOUNT-KIT	PAK-Rack-Mounting-Plate		

* On-screen display and keyboard shortcuts are only available when PAK is configured as a KVM capable device.
 ** Adaptive Frame Rate depending on actual motion & content of the sources.
 *** Performance may vary depending on bitrate and other stream settings

PAK for KVM Operators



On-Screen Display

Built-in intuitive on-screen display allows for easy personal video wall layout changes, all with simple selection.

Secure PAK Appliance

Password-protected node requires user login. User access to video, keyboard & mouse are all configurable.

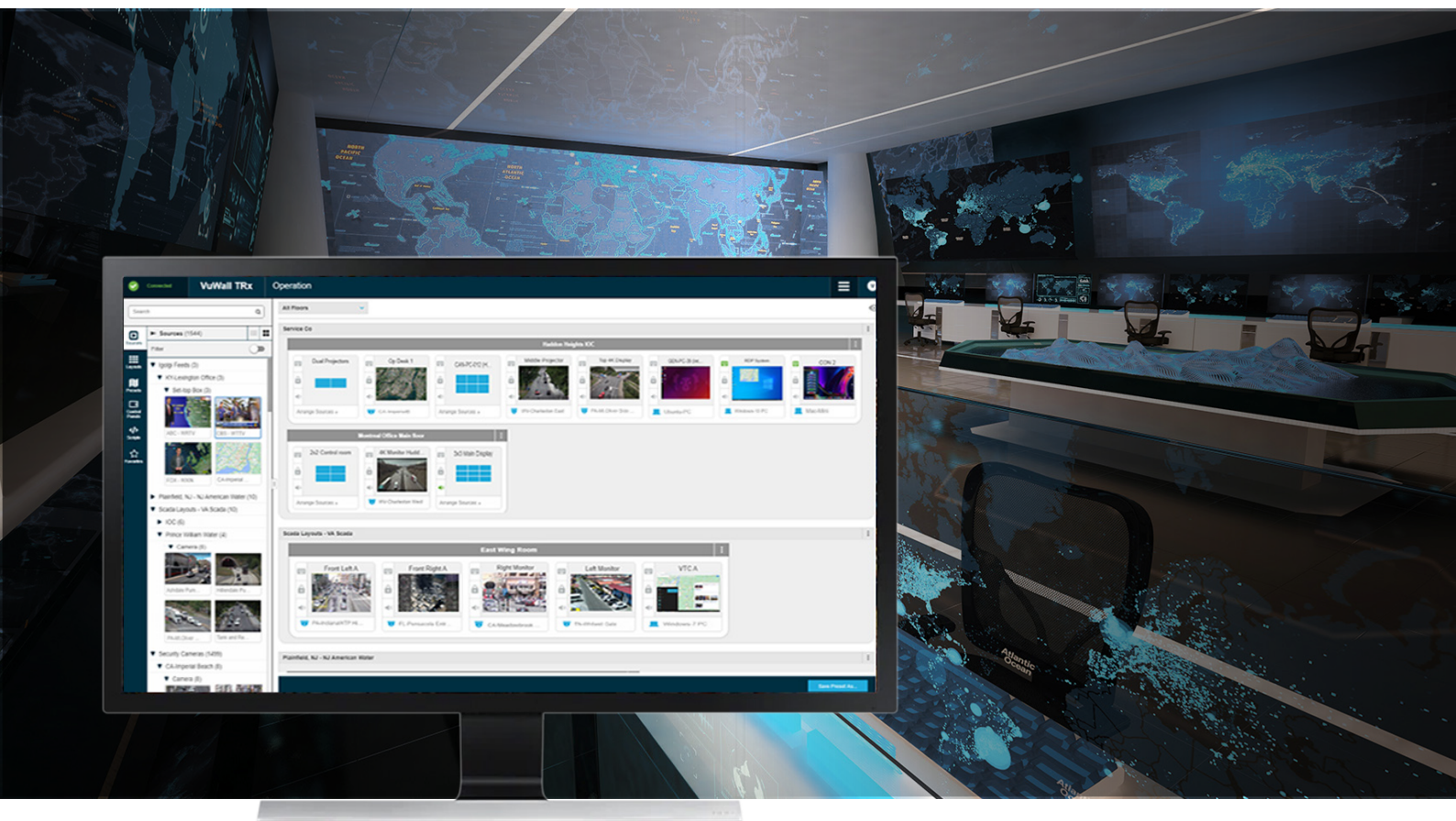
ControlVu Touch Panel

ControlVu™ gives operators the freedom to change layouts and control devices with a simple touch.

Keyboard & Mouse

Control your personal workstation and all sources with keyboard and mouse. Keyboard shortcuts can be used for fast switching through layouts.

VuWall's TRx Software



Manage all your PAK nodes with the award-winning TRx software – a single, common platform to manage your entire video wall and AV distribution ecosystem.

TRx is the only platform that combines AV-over-IP distribution, advanced multi-video wall and KVM management. It is a centralized platform used to configure, manage and distribute virtually any source type to any display with easy drag-and-drop and no programming required.

TRx features an intuitive interface, a built-in HTML-based control panel designer, scripting, advanced security, user rights management, and an extensive API. Thanks to its interoperable and hybrid design, TRx simplifies the deployment of complex AV-over-IP projects.

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