



A CUTTING-EDGE VIDEO PRESENTATION SOLUTION FOR PROJECTION EVENTS

Real Time Setup and Layout Composition

Media Server

Low Latency

Dual / Trial Projector Stacking

Timeline

Live Mixer

Edge Blending

Keystone

Warping

Mapping

4K

Visual Effects

Intuitive User Interfaces and Efficient Workflows

Kshow is an integrated video processing solution created by audiovisual professionals. Suitable for a wide range of events yet simple to use for all technical profiles



KEY FEATURES

- **Media Server with Timeline**



Advanced media manager with video preview and multiple visual effects (trimming, cropping, bright, glow, etc.). Intuitive timeline with drag and drop features

- **Edge Blending**



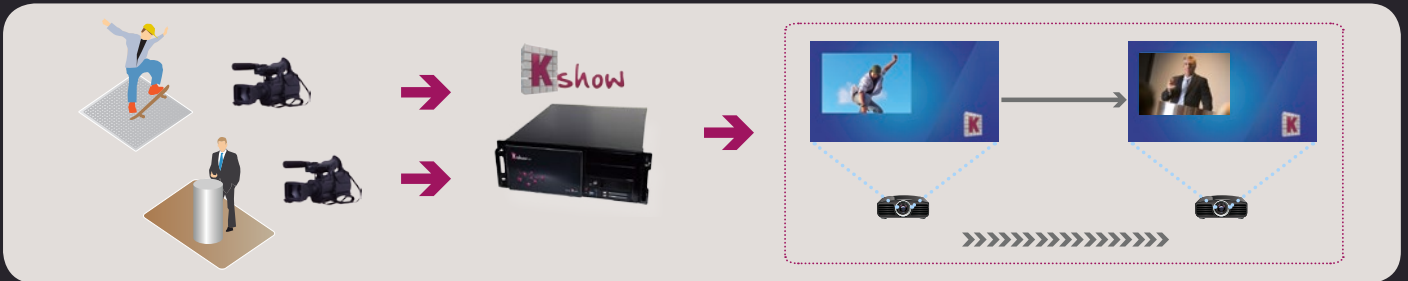
Fast, precise management of horizontal and vertical edge blending for a single Kshow or several linked Kshows (for large screen projections)

- **Projector Stacking Management**



To achieve superior image brightness and projector redundancy, Kshow manages dual/trial projector configurations in real time using its powerful image correction process for each output

- **Full Control Live Mixer**



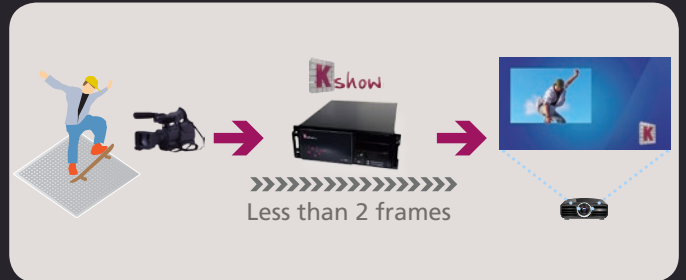
Assignment of DVI / SDI / IP live sources to windows through a dedicated and intuitive interface

- **Real Time Layout Composition**



Our video processing engine allows rich layout composition as well as nearly limitless Picture in Picture support. Compositions can be created and updated when preparing the show or in real time during the show (through a preview/program interface)

- **Low Latency**



Ultra efficient treatment of live sources for projection to any screen

- **Mapping**



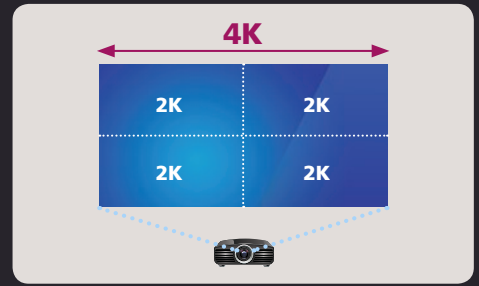
Smooth mapping configuration for video projection on any surface

- **Real Time Effects and Transformations**



Wide range of real time visual effects and transformations available (resize, rotate, move, brightness, contrast, etc.)

- **4K Video Definition**



Ultra high definition video output

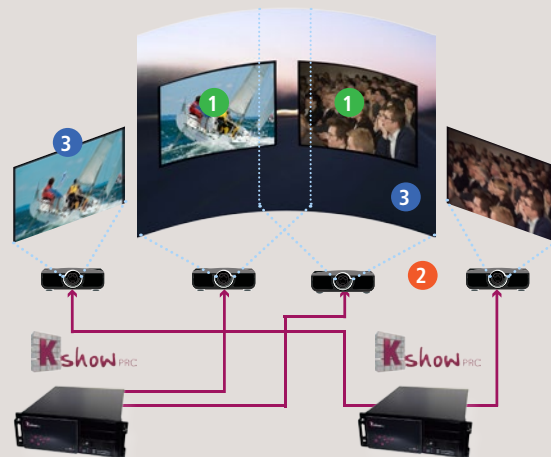
- **Keystone and Warping**

Independent geometric corrections in real time



Geometric corrections and real time effects and transformations are available for:

- 1 Each input or media (window)
- 2 Each output (projector)
- 3 Each screen (N projectors)



...and much more:

- Alpha channel available for video and image
- Different video frame rates on a same screen composition
- Management of synchronous and asynchronous video inputs
- Management of low latency IP cameras
- Simultaneous reproduction of uncompressed and compressed video
- Unlimited windows cloning option
- Real time and independent adjustment of video outputs for keystone, warping, mapping, color correction and other effects
- Management of windows and content layer (texture) from the timeline

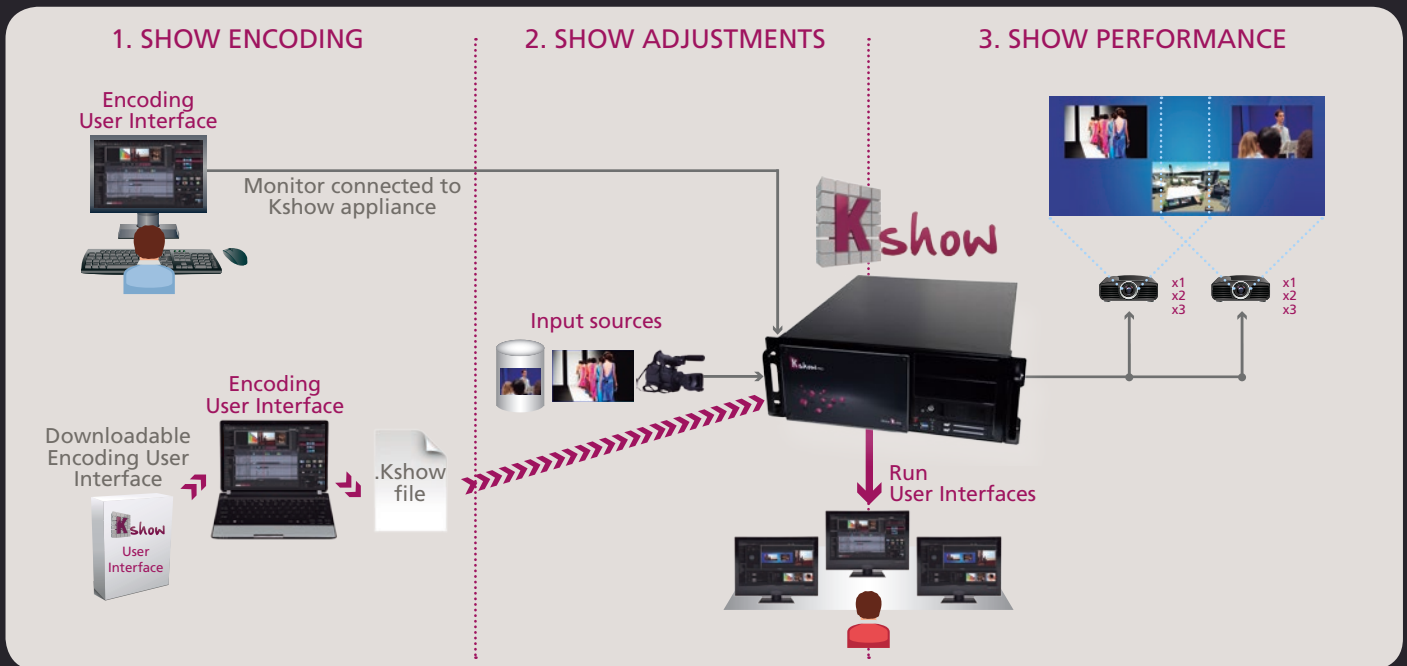
EASY AND FLEXIBLE WORKFLOWS

- Linux-based 4U Hardware Appliance:

Linux OS reliability combined with a powerful video engine translates into maximum robustness and stability, meeting the professional requirements of both rentals' and fixed installations. Kshow's integration of functionalities allows for the quick and easy **installation** of your show production station. Kshow appliance also allows for full scalability to handle unlimited number of screens and projectors.

- User Interfaces:

Kshow has simple, efficient and user-friendly interfaces that will help you prepare and manage your shows.

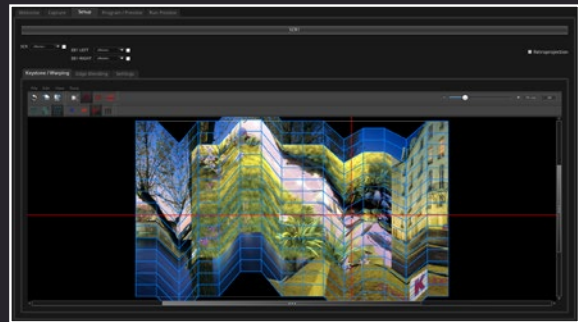
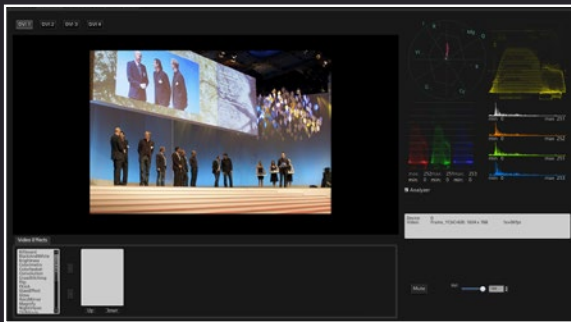


1. Show Encoding

- The encoding interface is available from the Kshow appliance, and also as a PC-based application. Generate a configuration file (.Kshow) to transfer the project settings to the Kshow appliance
- Use the show encoding interface to create your show, step by step, using the various Kshow modules:
 - Project Data** - Define project preferences like video frame rate, timecode generation or reception mode (master or slave), cue duration, etc.
 - Screen editor** - Includes useful tools for screen configuration (number of projectors and screens, edge blending, screen size, screen definition, etc.) and automatic calculation of useful parameters (pixel size, pixel density, black borders, etc.)
 - Show driver** - Build a script of the show and create a pre-configuration of the timeline

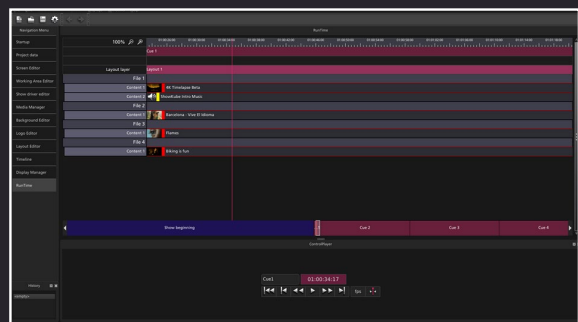
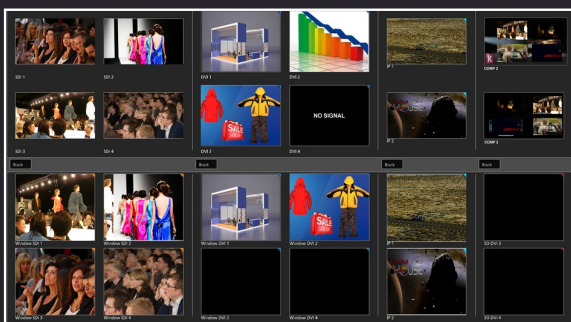


- **Media manager** - Prepare and organize all your media, including an integrity control process for adding new media, a preview of each media and a long list of real time effects such as trimming, cropping, brightness, colorimetry, etc.
- Background and Logo Editors
- **Layout editor** - Includes windows declaration and flexible compositions with keystone adjustments and windows frames and shadows. Create nearly limitless* video and graphic layers and layouts
- **Timeline editor** - Create your show sequences; programming when each media (video, audio, images, etc.) should be displayed. Includes control points, free-run and loop video capabilities, detailed editable metadata for each media, management of windows and textures, drag and drop features, etc.



2. Show Adjustments

- The **capture manager** allows you to preview live sources: HD-SDI and IP cameras, IP streams, and video from DVI-enabled devices like laptops. Make adjustments using the integrated vectorscope, waveform and histogram analyzers. Apply real time effects to the live sources. A powerful de-interlaced module is also available
- Use the **setup module** to apply geometric corrections (warping / keystone) and visual adjustments (brightness, contrast and colorimetry) to the overall video output, and to adjust the edge blending area (pixel overlapping, power blend, brightness, colorimetry, etc.). Useful patterns are available for each adjustment
- Do all the adjustments in real-time (while the layouts and video signals are being projected)
- External and internal synchronization (timecode, framelock, genlock)
- Rear-projection supported



3. Show Performance

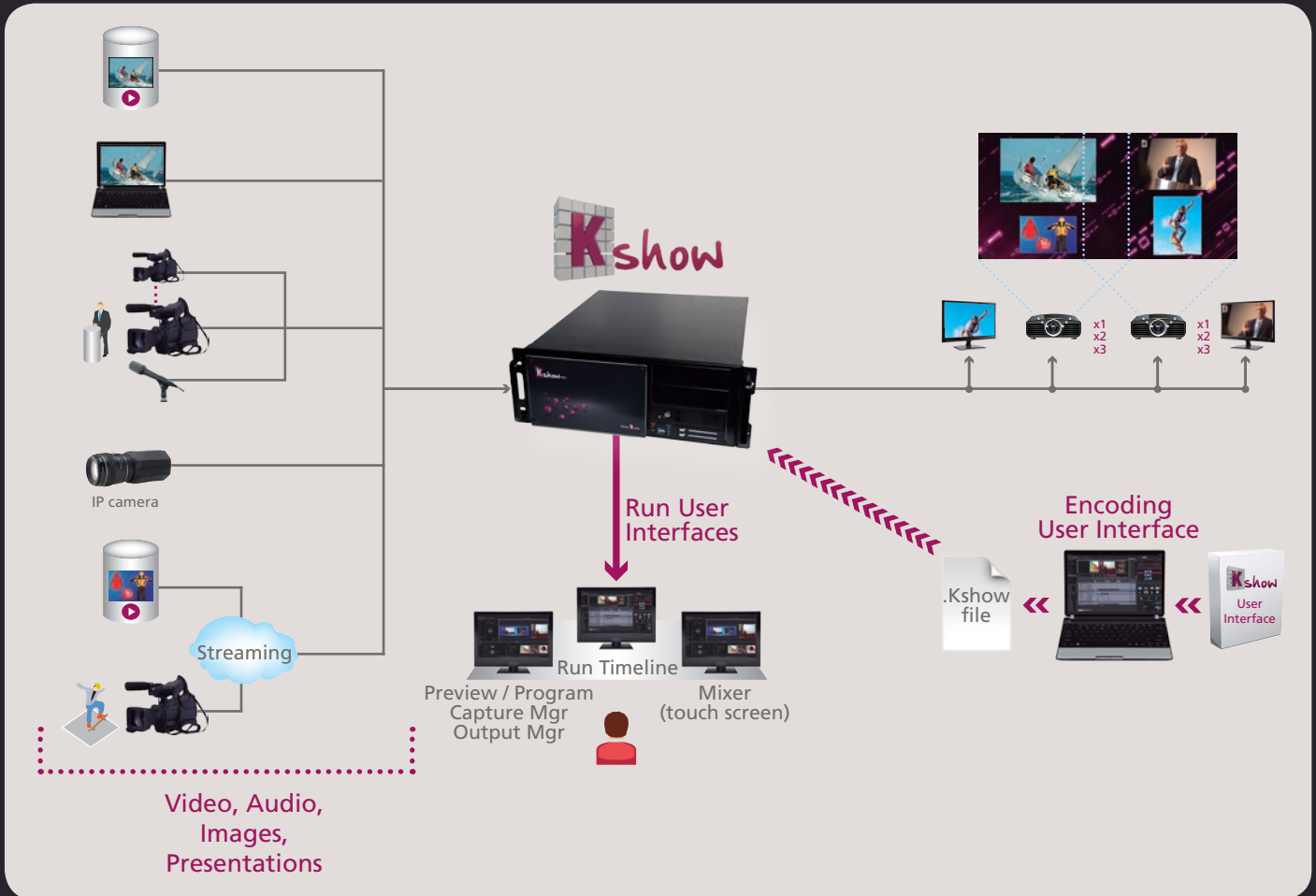
- Use the timeline to drive your show. You can also access a timeline preview to jump to a specific time during the show
- Preview / program interfaces with real time layout editing
- Integrated **live mixer** - Assign live sources to output windows. Assign any input signal or final video composition to special outputs (for stage screens or preparation for video streaming)
- The **setup manager** adjusts the video outputs independently and in real-time during the show

*Number of video and graphic layers subject to the definition of each media source with respect Kshow processor capacity. Based on video experts experience, the number of layers available is more than what you may need in high performance events with high definition video signals.

KSHOW: YOUR ALL-IN-ONE VIDEO PROCESSING SOLUTION FOR EVENTS

Kshow is a cutting-edge video presentation solution integrating a **live mixer**, a rich **timeline** and a **powerful 4K media server** that brings a simple and flexible approach to event production.

Kshow is a Linux-based 4U appliance built with the latest in real time processing technology and ultra-low latency; bringing an efficient and innovative approach to show creation and show management. It allows for simultaneous reproduction of content from live cameras, laptops, live streams and local media files to a wide variety of screens (projection, plasma/LCD, LED walls, rear projection, etc.).



Kshow drastically enhances users' experience, giving improved features, intuitive **control interfaces** and efficient **workflows** to manage the entire event. Kshow was conceived by audiovisual experts who have been producing the most amazing events for over 30 years. The result of their insights is a video processing solution that simplifies the event production process in ways technicians will highly appreciate.

Kshow connects to ShowKube **support services** over a secured Internet tunnel which allows for:

- User controlled software updates
- Remote diagnosis and troubleshooting
- System restore

TECHNICAL OVERVIEW

Key functions	Live Mixer; Powerful 4K media server; Keystone and Warping correction; Vertical and horizontal Edge Blending support; Intuitive Timeline and user friendly show driver; Real time multi-layer composition engine; Ultra low latency acquisition; Dual/Trial projector management; Mapping support; Real time effects and transformations
Video and image formats	Most common multimedia formats supported: <ul style="list-style-type: none"> Video - Mpeg-1, Mpeg.2, Mpeg-4, AVI, WMV, Quicktime, H.264, Flash and much more Image - jpg, bmp, png, and much more Stream protocols: <ul style="list-style-type: none"> UDP (multicast), HTTP, RTP, RTMP, RTSP
Video inputs	<ul style="list-style-type: none"> SDI Inputs up to 1920x1080 DVI Inputs up to 1920x1200 IP streams up to 4K
Video outputs	<ul style="list-style-type: none"> DisplayPort 1.2 up to Full 4K (4096x2160)@60Hz DVI (1920x1080)@50,60Hz
Compositing maximum size	<ul style="list-style-type: none"> Up to 64Mpixels (8192x8192)
Audio inputs	<ul style="list-style-type: none"> Two embedded digital audio channels per each SDI video input

Audio outputs	<ul style="list-style-type: none"> One Digital Output AES/EBU
Synchronization	<ul style="list-style-type: none"> Video Genlock FrameLock
Hardware	<ul style="list-style-type: none"> Linux-based 4U / 19" appliance / 60 cm depth 25Kg
Storage	<ul style="list-style-type: none"> 250GB SSD available capacity in redundant RAID 3 for ultra fast playback One slot HDD 3,5" (removable) Two slot SSD 2,5" (removable)
Connectivity and management	<ul style="list-style-type: none"> Two Gigabit Ethernet adapters RS-232 ports
Power supply	<ul style="list-style-type: none"> Redundant system with alarm Input voltage range: 100-240V, 47-63Hz
Environmental temperature	Operating 0°C to 50°C, Storage -20°C to 70°C, Humidity 85% non condensing
CE compliance	EMC: EN55022, EN55024 Safety: EN 60950
Included material	Display extender; Keyboard and mouse; Power cable; Cables and adapters

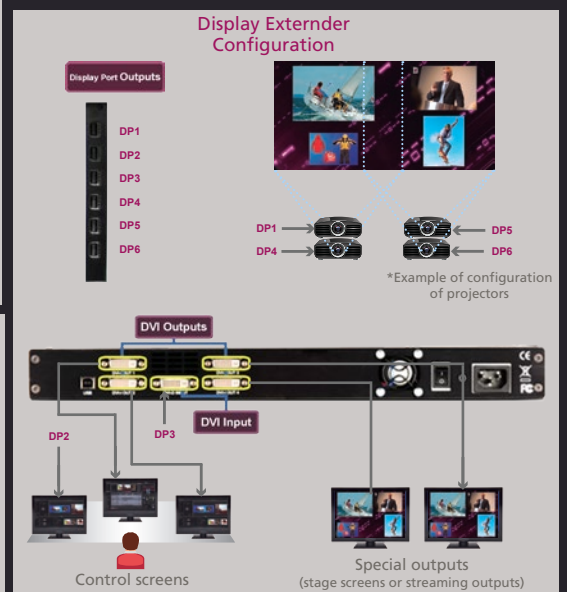
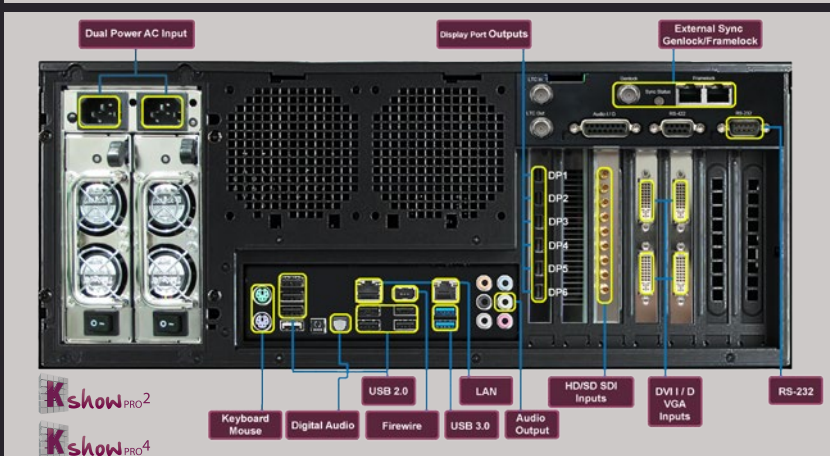
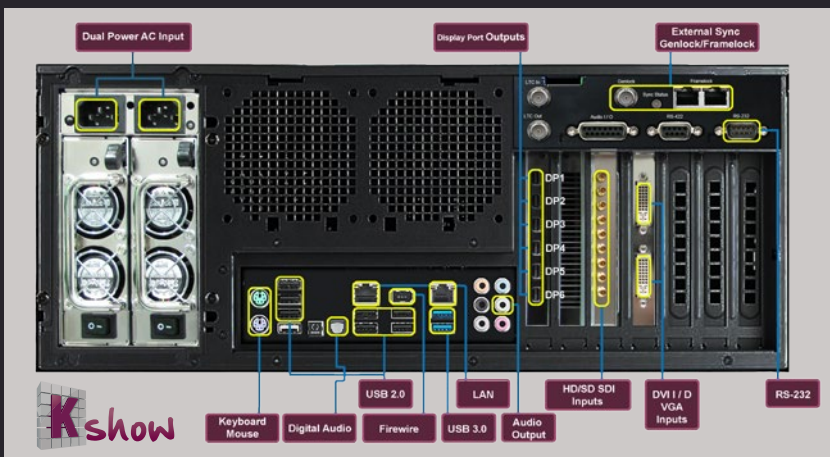
MODEL COMPARISON

	KSHOW	KSHOW PRO 2	KSHOW PRO 4
GENERAL			
Distinct video outputs*	1	2	4
Edge blending management	-		✓
Projector stacking management	up to TRIAL	up to DUAL for 2 video outputs up to TRIAL for 1 video output	

	KSHOW	KSHOW PRO 2	KSHOW PRO 4
VIDEO INPUTS			
HD/SD-SDI (up to 1.5Gbps)	2	4	4
DVI I/D VGA	2	4	4
IP streams	1	2	2
VIDEO OUTPUTS			
DisplayPorts	4	4	4
Special Outputs (DVI)**	2	2	2
Control screens (DVI)	3	3	3

*Distinct video output means the ability of Kshow to output distinct video signals from one or multiple output plugs simultaneously
 **For stage screens or preparation for video streaming

BACK PANELS





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