



SCALING NEW HEIGHTS

NEW, ADVANCED LINE OF PROSCALE™ DIGITAL SCALING SWITCHERS FROM KRAMER ELECTRONICS



- **HDMI, VGA, DP, SDI AND TP INPUTS/OUTPUTS**
- **PICTURE-IN-PICTURE/PICTURE-AND-PICTURE**
- **LUMA KEYING**
- **2K RESOLUTION**
- **ULTRA-FAST GLITCH-FREE SWITCHING**
- **MASS NOTIFICATION EMERGENCY COMMUNICATION**
- **FULL WEB PAGE MANAGEMENT**
- **BUILT-IN TEST PATTERNS**



VP-460, VP-461, VP-770, VP-771, VP-773AMP, VP-774AMP



Scaling New Heights

Kramer Electronics is proud to present a new era of scaling and switching with the new VP-460 & VP-461, the VP-770, the AV Award winner VP-771, and the VP-773AMP & VP-774AMP. Our new line of presentation scaling switchers, designed as the answer to today's demanding applications, provides an easy, simple solution for multi-format installations.

The new Kramer line of presentation scaling switchers is ideal for homes, boardrooms, hotels, churches, lecture theatres and training rooms, as well as more complex installations. Kramer scalars effortlessly switch and scale video devices, players, satellite decoders, document cameras, and videoconferencing systems to the native resolution of the display device. Our line of ProScale™ digital presentation scaling switchers is specifically designed to improve video quality and reduce artifacts and noise.

Kramer has a scaling or switching product solution for every application. The new family of Kramer scalar/switchers offers the most complete array of scaling solutions, with an advanced feature set, including Picture-in-Picture functions, Luma-Keying, resolution capability, emergency alert notifications, built-in web pages for advanced control, DSP audio processing and microphone inputs, and more (see highlights in pages 6-7).

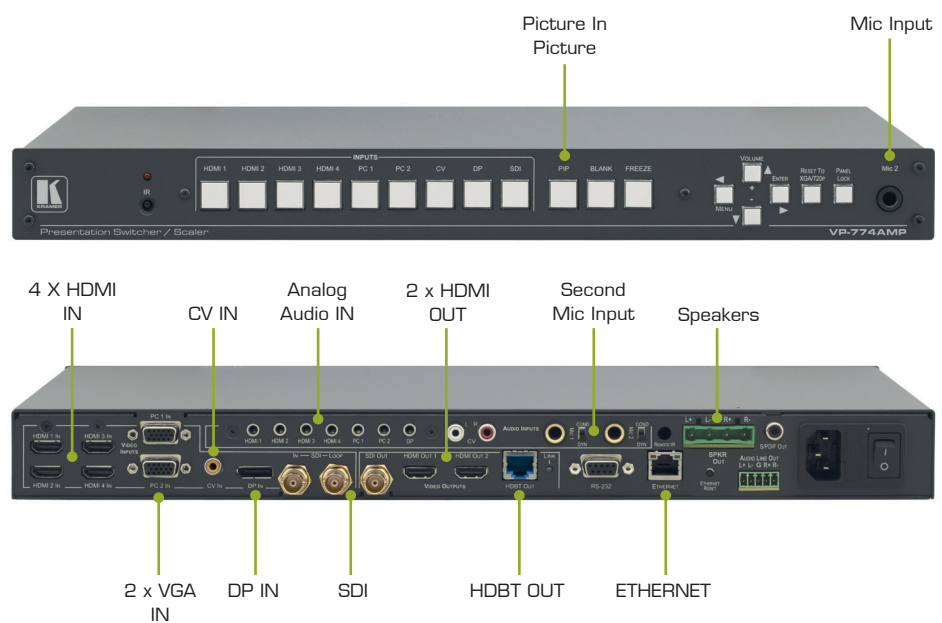
Our scalars offer the ultimate in image manipulation and processing, and use the latest in digital signal processing technology to provide the highest quality image possible, and flawless switching, combined with Kramer's renowned reliability.

For more information: www.kramerelectronics.com



Product Overview Example: VP-774AMP

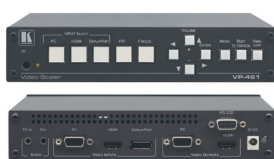
- ➔ 2K RESOLUTION
- ➔ MASS NOTIFICATION
EMERGENCY COMMUNICATION
- ➔ ULTRA-FAST,
GLITCH-FREE SWITCHING
- ➔ LUMA-KEYING



VP-460/1 & VP-770/1/3AMP/4AMP (for a full list of features for each unit, please refer to page 8).



VP-460



VP-461



VP-770



VP-771



VP-773AMP

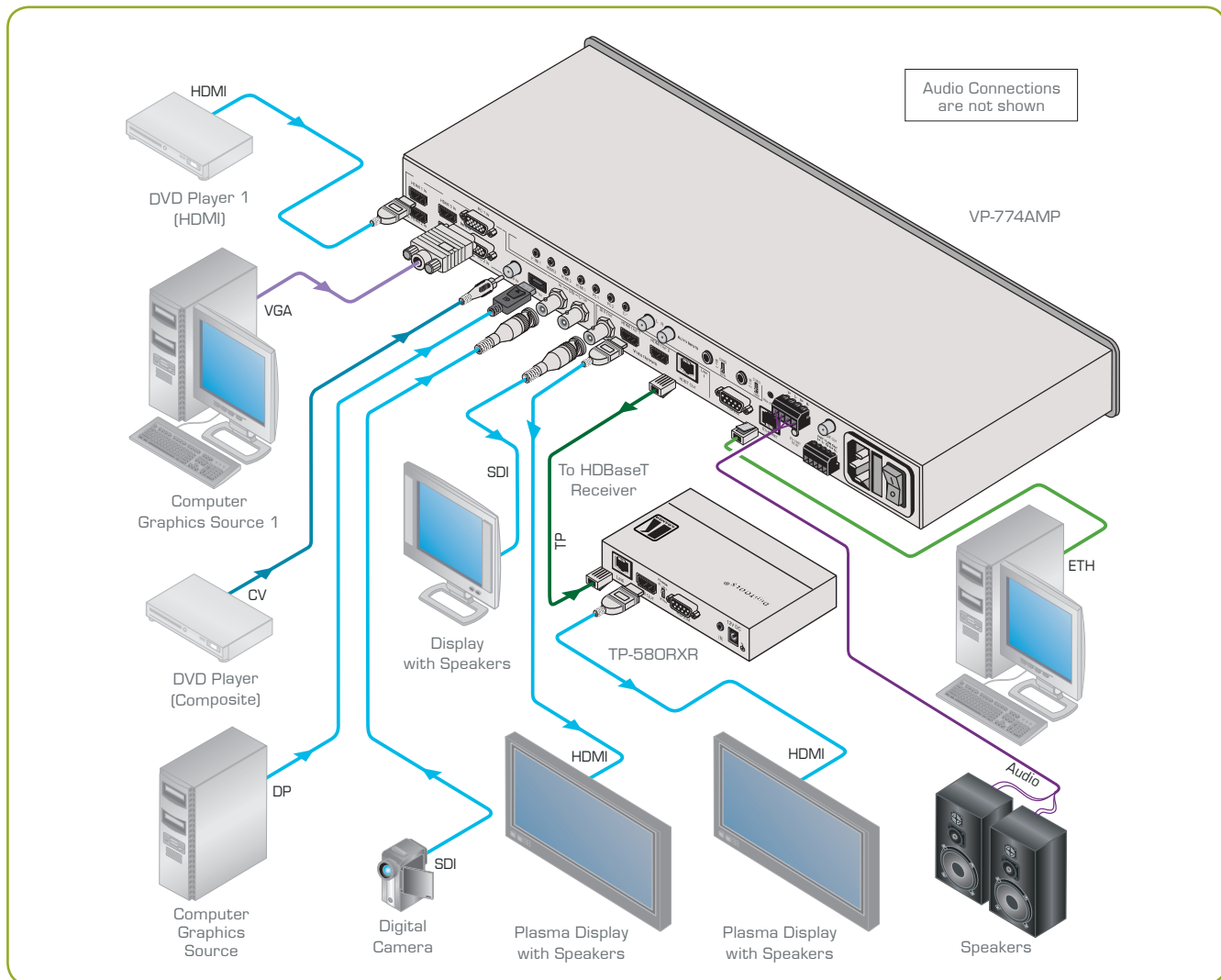


VP-774AMP

- Kramer's PixPerfect™ Scaling Technology - Kramer's precision pixel mapping and high quality scaling technology.
- K-IIT XL™ Picture-in-Picture Image Insertion Technology with Advanced Windows Customization.
- Ultra-Fast Fade-Thru-Black (FTB™) Switching.
- Advanced Input and Output EDID Management.
- HDTV Compatible.
- HDCP Compliant.
- HDMI Deep Color Support and Control.
- Multi Color Space Support and Control.
- Mass Notification Emergency Communication - Flexible options for displaying text or audio alerts on screen (*VP-770/1/3AMP/4AMP).
- TP Output - Video & audio over TP cable. (*VP-770/1/3AMP/4AMP).
- Port Tunneling - Data on the RS-232 port is embedded and passed to/from the TP output.
- Luma Keying.
- Built-in ProcAmp - Color, sharpness, contrast, brightness and gamma control.
- Powerful Noise Reduction Filters - Temporal, block, mosquito and comb filtering.
- Ultra Picture Zooming - Up to 1600%.
- Independent Audio Inputs - Embedding/de-embedding audio DSP functions.
- Microphone Input - Supports mix and talk-over (*VP-770/1/3AMP/4AMP).
- Built-in Audio Power Amplifier - 2x10W (*VP-770/1/3AMP/4AMP).
- Power Saving - Automatically enters energy saving mode.
- Flexible Control Options - Ethernet, front panel buttons via OSD, contact closure, and IR remote (remote control included).



VP-774AMP Application Diagram Example



Outstanding Key Features of the New ProScale™ Digital Presentation Scaling Switchers

Compatible with Kramer's HDBaseT™ Products

The VP-773AMP & VP-774AMP incorporate a certified HDBaseT™ output port that works flawlessly with all Kramer's HDBaseT™ receivers e.g. TP-580R & TP-580RXR, and the WP-580R & WP-580RXR, enabling easy system design and implementation. When partnered with Kramer's HDBaseT products that support Ultra (Long Reach) mode and Kramer's BC-HDKat6a cable, the scaled HDBaseT video image from the VP-773AMP can be sent up to 130m (430ft) in normal mode and up to 180m (590ft) in ultra mode (1080p @60Hz @24bpp).



Picture-in-Picture (PIP) Image Insertion Technology

The new line of ProScale Digital scaling switchers features Kramer's unique technology for picture sizing. Using two pictures, this allows Picture-in-Picture, Picture-and-Picture, or any other dual window display. Using the Picture-in-Picture technology, two input signals can be shown simultaneously while both images can be sized in any manner and positioned anywhere on the screen.



Luma Keying

The new line of ProScale Digital presentation scaling switchers features an easy-to-use method of compositing two video sources into a single image. By setting up a "key" image or clip on a black background, this image can be merged – or overlaid – onto the primary video. The key image is transparent in the areas of its dark background, resulting in a picture which looks as if the key image is cut out and pasted over the primary image. This useful function of combining images from two different sources is suitable for many applications, including subtitling, labeling, advertising or logo insertion.



Outstanding Key Features of the New ProScale™ Digital Presentation Scaling Switchers

Mass Notification Emergency Communication (*the VP-770/1/3AMP/4AMP models)

The new Kramer line of ProScale digital presentation scaling switchers includes a unique, versatile feature for immediate text overlaying, with flexible options such as the inclusion of an audio alert siren, and the choice of displaying via either a text crawler or a text window.

The system complies with the standard of the official national warning system in the United States, the **Emergency Alert System (EAS)**, which works in coordination with the Federal Emergency Management Agency (FEMA) and a number of US national emergency agencies.

The new Kramer Scalars also support automated campus emergency alerts suitable for systems such as educational facilities, corporate campuses, stadiums, and more. This essential feature provides the ability to have a campus wide notification immediately displayed when an emergency situation develops. When connected to a network, the Kramer switcher will automatically display the alert message when it is sent out.

Emergency alert messages are composed and transmitted using the XML-based **Common Alert Protocol (CAP)** application that allows a warning message to be consistently disseminated simultaneously over many warning systems to many proprietary applications and devices. CAP alerts can include specifics about weather (hurricanes, flooding, storms, etc.), safety and security alerts, as well as secondary functions, such as alert tones, horns, buzzers, and sirens.

Messages with "Extreme" and "Severe" headers will appear nearly full screen and covering any other content. Messages with lower levels of severity will appear as text crawls along the bottom of the image. The new Kramer line of presentation switchers only requires an Ethernet connection to the appropriate campus network.



Full Web Page Management

The new line of ProScale digital presentation scaling switchers enables full Web page management when connected through Ethernet. The built-in Web interface is an easy-to-use tool, allowing simplified setup and switching, windows customization, scaling and deinterlacing functions. Configuring, navigating and monitoring the unit's features is simple. Additionally, our full Web page management allows you to control picture positioning and sizing, input and output color space, color depth, noise reduction, motion sensitivity, audio and image settings, and many more features. Advanced functions such as Luma keying, emergency alert notification, EDID management, port tunneling and keystone effects can also be controlled through the Web interface of the products in this line.



Kramer's Presentation Scaling Switcher Line: Key Feature Comparison

FEATURE		VP-460	VP-461	VP-770	VP-771	VP-773AMP	VP-774AMP
INPUTS	HDMI	-	HDMI	2 HDMI	2 HDMI	4 HDMI	4 HDMI
	VGA	VGA	VGA	2 VGA	2 VGA	2 VGA	2 VGA
	YUV	-	-	YUV	YUV	-	-
	CV	CV	-	2 CV	2 CV	CV	CV
	DP	-	DP	DP	DP	DP	DP
	SDI	SDI	-	-	SDI	-	SDI
OUTPUTS	HDMI	HDMI	HDMI	HDMI	HDMI	2 HDMI	2 HDMI
	VGA	-	VGA	VGA	VGA	-	-
	SDI	SDI	-	-	SDI	-	SDI
	CAT 5	-	-	DGKat	DGKat	HDBaseT™	HDBaseT™
Size		Desktop	Desktop	19"	19"	19"	19"
Voltage		5V DC	5V DC	220V AC	220V AC	220V AC	220V AC
PIP		Yes	Yes	Yes	Yes	Yes	Yes
Microphone inputs; 48V		-	-	Yes	Yes	Yes x 2	Yes x 2
Talkover / Ducking		-	-	Yes + MIX	Yes + MIX	Yes + MIX	Yes + MIX
Audio Power Amplifier		-	-	Yes	Yes	Yes	Yes
Mass Notification Emergency Communication		-	-	Yes	Yes	Yes	Yes
Vertical Keystoning		Yes	Yes	Yes	Yes	Yes	Yes
Luma-Keying		Yes	Yes	Yes	Yes	Yes	Yes
2K Resolution		Yes	Yes	Yes	Yes	Yes	Yes
Picture Zooming		Yes	Yes	Yes	Yes	Yes	Yes
Ultra-fast, Glitch-free		Yes	Yes	Yes	Yes	Yes	Yes



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