Scaling New Heights

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

Kramer's new of presentation scaler/switchers is ideal for homes, boardrooms, hotels, churches, lecture halls and training rooms, as well as more complex installations. Kramer scalers effortlessly switch and scale video devices, players, satellite decoders, document cameras, computers, and videoconferencing systems to the native resolution of the display device. Our line of ProScale™ digital presentation scaler/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 scaler/switchers offers the most complete array of scaling solutions, with an advanced feature set, including Picture-in-Picture functions, Luma-Keying, resolution selection, 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 scalers 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

Picture-in-Picture

Mic Input

2K RESOLUTION

MASS NOTIFICATION EMERGENCY COMMUNICATION

ULTRA-FAST, GLITCH-FREE SWITCHING

LUMA-KEYING

PORT TUNNELING

4 X HDMI IN

CV IN

Analog Audio IN

2 x HDMI OUT

Second Mic Input

Speakers

2 x VGA IN

DP IN

SDI

HDBT OUT

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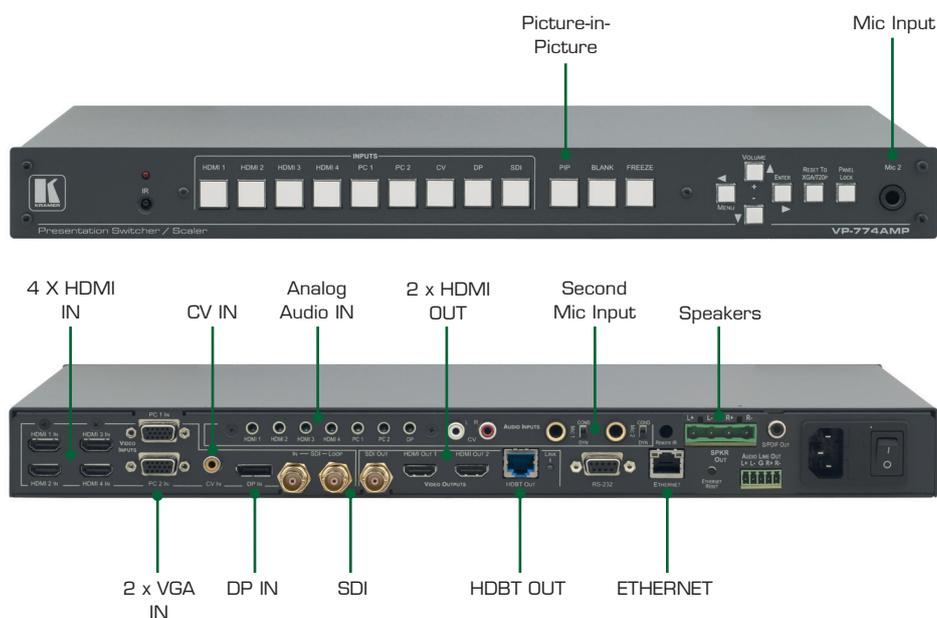
VP-460/1 & VP-770/1/3AMP/4AMP (for a full list of features for each unit, please refer to page 8)

VP-460

VP-461

VP-770

AV WINNER
2013
Systems Product of the Year

VP-771

VP-773A

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).
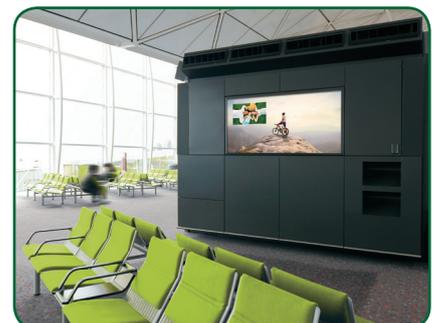
VP-774AMP Application Diagram Example

Audio connections are not shown

VP-774AMP

HDMI

DVD Player 1 (HDMI)

VGA

Computer Graphics Source 1

CV

DVD Player (Composite)

DP

Computer Graphics Source

SDI

Display with Speakers

Digital Camera

SDI

To HDBaseT Receiver

TP

TP-580RXR

HDMI

Plasma Display with Speakers

HDMI

Plasma Display with Speakers

ETH

Audio

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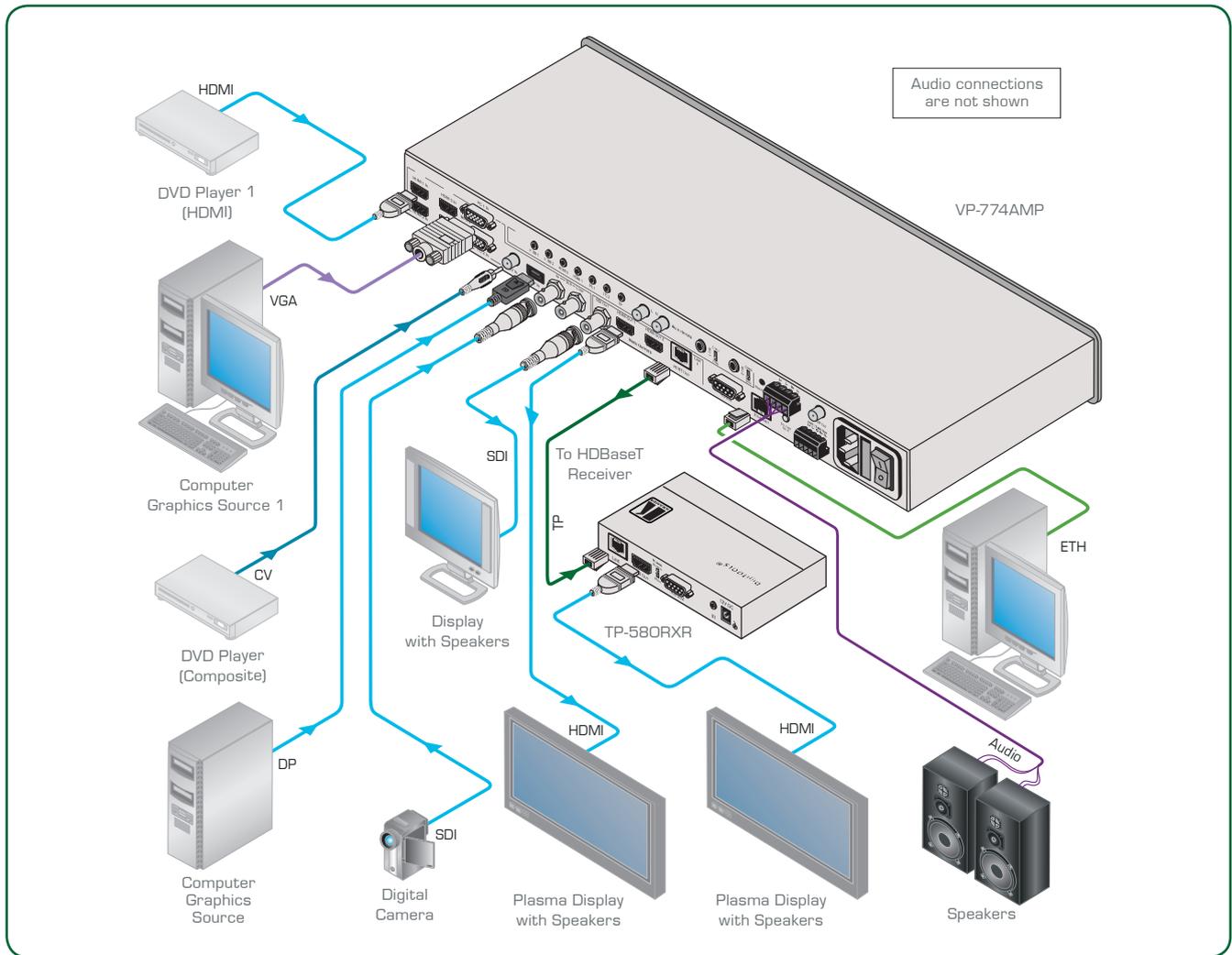
Outstanding Key Features of the New ProScale™ Digital Presentation Scaling Switchers

Compatible with Kramer's HDBaseT™ Products

The VP-773A & VP-774AMP include a certified HDBaseT™ output port that works flawlessly with all of Kramer's HDBaseT™ receivers, e.g., TP-580R, TP-580RXR, WP-580R, & WP-580RXR, enabling easy system design and implementation. When used 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-773A can be sent up to 130m (430ft) in normal mode and up to 180m (590ft) in ultra mode (1080p @60Hz @24bpp). The HDBaseT™ port supports video and audio and bi-directional RS-232 port tunneling.

TP-580R

WP-580R & WP-580RXR

TP-580RXR

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

Picture-in-Picture (PIP) Image Insertion Technology

Our new line of ProScale Digital scaler/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

Our new line of ProScale Digital presentation scaler/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. Combining images from two different sources can be used for a variety of applications, including subtitling, labeling, advertising, and logo insertion.

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

Mass Notification Emergency Communication [*the VP-770/1/3A/4AMP models]

The new Kramer line of ProScale digital presentation scaler/switchers includes a unique, versatile feature for immediate text overlaying with flexible options, such as an audio alert siren and the option to display via 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)**. EAS works in coordination with the Federal Emergency Management Agency (FEMA) and a number of US national emergency agencies.

The new Kramer Scalers also support automated campus emergency alerts for educational facilities, corporate campuses, stadiums, and more. This critical feature enables a campus wide notification to be immediately displayed in an emergency. When connected to a network, the Kramer switcher will automatically display an alert message.

Emergency alert messages are composed and transmitted using the XML-based Common Alert Protocol (CAP). CAP 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 almost nearly full-screen and cover 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 requires only an Ethernet connection to the appropriate campus network.

Full Web Page Management

The new line of ProScale digital presentation scaler/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 and manipulation of the scaling and deinterlacing functions. Configuring, navigating and monitoring the unit's features is simple. Our comprehensive Web page management lets you control all audio and image settings and functions in the unit, including advanced features such as Luma keying, emergency alert notification, EDID management, and port tunneling.

Port Tunneling

RC-74DL Room Controller

Video Source

Video

Control

Ethernet   Ethernet

VP-773A

Twisted Pair

TP-580R

Control

RS-232

Video

Kramer's Presentation Scaling Switcher Line: Key Feature Comparison

FEATURE		VP-460	VP-461	VP-770	VP-771	VP-773A	VP-774AMP
INPUTS	HDMI	-	1	2	2	4	4
	VGA	1	1	2	2	2	2
	YUV	-	-	1	1	-	-
	CV	1	-	2	2	1	1
	DP	-	1	1	1	1	1
	SDI	1	-	-	1	-	1
OUTPUTS	HDMI	1	1	1	1	2	2
	VGA	-	1	1	1	-	-
	SDI	1	-	-	1	-	1
	CAT 5	-	-	DGKat	DGKat	HDBaseT™	HDBaseT™
Size		Desktop	Desktop	19"	19"	19"	19"
Voltage		5V DC	5V DC	110/220V AC (Universal)	110/220V AC (Universal)	110/220V AC (Universal)	110/220V AC (Universal)
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
Port Tunneling		-	-	Yes	Yes	Yes	Yes