



KRAMER ELECTRONICS, Ltd.

KRAMER
ProScale™ Digital Scaler/Switchers
VP-719DS | VP-720DS | VP-723DS | VP-724DS

THE NEW GENERATION -
PRODUCING BREATH-TAKING
PICTURE QUALITY

| SIMPLE CREATIVE TECHNOLOGY |

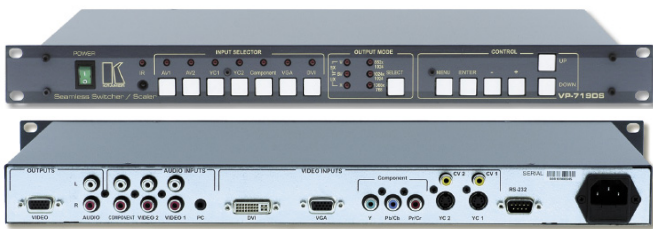


Question:

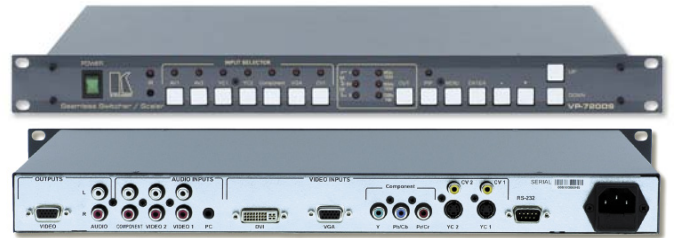
“How do I install a DVD player, VHS player, Satellite Decoder, Video Conferencing system and PC, so that all can be shown through one data projector or flat panel display?”

Answer:

“Easy – plug them all into a **Kramer Pro-Scale™ Digital Scaler/Switcher!**”



VP-719DS | Pro-Scale 7



VP-720DS | Pro-Scale P7

The Kramer Pro-Scale™ Digital Scaler / Switchers

The Kramer Pro-Scale™ Digital Scaler / Switcher range is designed to make the installation of today as easy as possible. Display devices that accept graphics inputs are becoming more and more prevalent in the boardroom, home, and indeed everywhere a screen is used. Kramer Scalers allow video devices such as DVD players, satellite decoders, VHS players, document cameras, and video conferencing systems to be smoothly switched and scaled to the native resolution of the display device.

K-Storm™ Scaling Technology

The Kramer Pro-Scale Digital Scaler / Switcher range digitally reprocess the signal to correct mastering errors, and regenerate the video at a higher line and pixel rate format, providing native-resolution video for LCD, DLP and Plasma displays.

K-Storm™ Scaling Technology provides superb quality images – whatever the input signal. The Kramer Pro-Scale range is specifically designed to improve video quality by reducing Chroma noise. They are true multi-standard video to RGBHV scalars that convert video, S-Video, component video, VGA-through-UXGA, and DVI-D signals to several user-selectable pixel rates (see table). Kramer K-Storm Scaling Technology uses a unique graphics-scaling engine, with image enhancement algorithms built into the firmware, to allow scaling of any graphics resolution to any other resolution. For example, a VGA input can be scaled to an UXGA output, or an SXGA input to an SVGA output.

A full scale ProcAmp for video and audio correction and enhancement is incorporated. Individual ProcAmp memories are available for each input. In addition, a built-in TBC (time base corrector) can often improve the quality of sub-standard original sources (such as old VHS tapes).

FTB™ Glitch free switching

The Kramer Pro-Scale range use FTB™ (Fade-thru-Black) switching technology for smooth image transition. This technology incorporates three user-selectable switch speeds to ensure glitch free switching regardless of the display device.

Audio channels are switched in audio-follow-video mode.



VP-724DS | Menu Screen

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K-IIT™ – Ultra stable picture - in - picture technology

All Kramer Pro-Scale models, except the VP-719DS Pro-Scale 7, include K-IIT™ (image insertion technology) for a stable and flexible picture-in-picture facility. Any video source can be inserted into a graphics background and vice versa, as well as allowing the inserted image to be sized and positioned anywhere on the screen. In addition, the PIP can display a Split-Screen (2 images side by side). Kramer Pro-Scale models recognise progressive scan component as a graphics signal, allowing video in video insertion.



VP-723DS | Pro-Scale PHD7

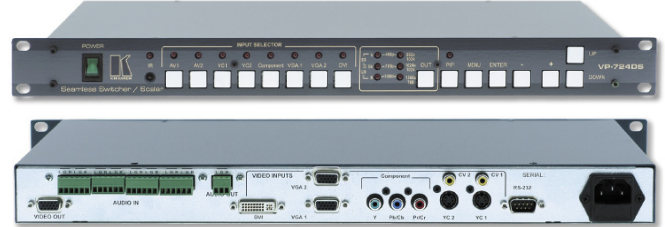
Control

Kramer Pro-Scale scaler/switchers can be controlled via front panel touch keys, Infra Red remote control, and RS-232. They feature a user-friendly on-screen display for making adjustments .

More Complex Installations

Kramer Pro-Scale Digital Scaler / Switchers can be used in a number of ways. In situations where only one image at a time is required on one display then a single scaler is required. If one image is required on multiple screens then a scaler and a distribution amplifier will be needed. Finally, when different images from multiple sources need to be displayed simultaneously on different screens, an RGBHV matrix such as the Kramer VP-88 or VP-88xl will allow this to happen when each of the inputs to the matrix is first fed through a scaler.

Kramer scalers aren't just for boardrooms or training facilities. Kramer ProScale Digital Scaler / Switchers can make life easier in almost any situation where video and computer images need to be integrated into a visual display. Kramer products are found in hospitals, universities, churches, ships, government departments, courtrooms, aircraft, in industry, in broadcast, in retail, and in pubs and clubs. Let your business benefit too.



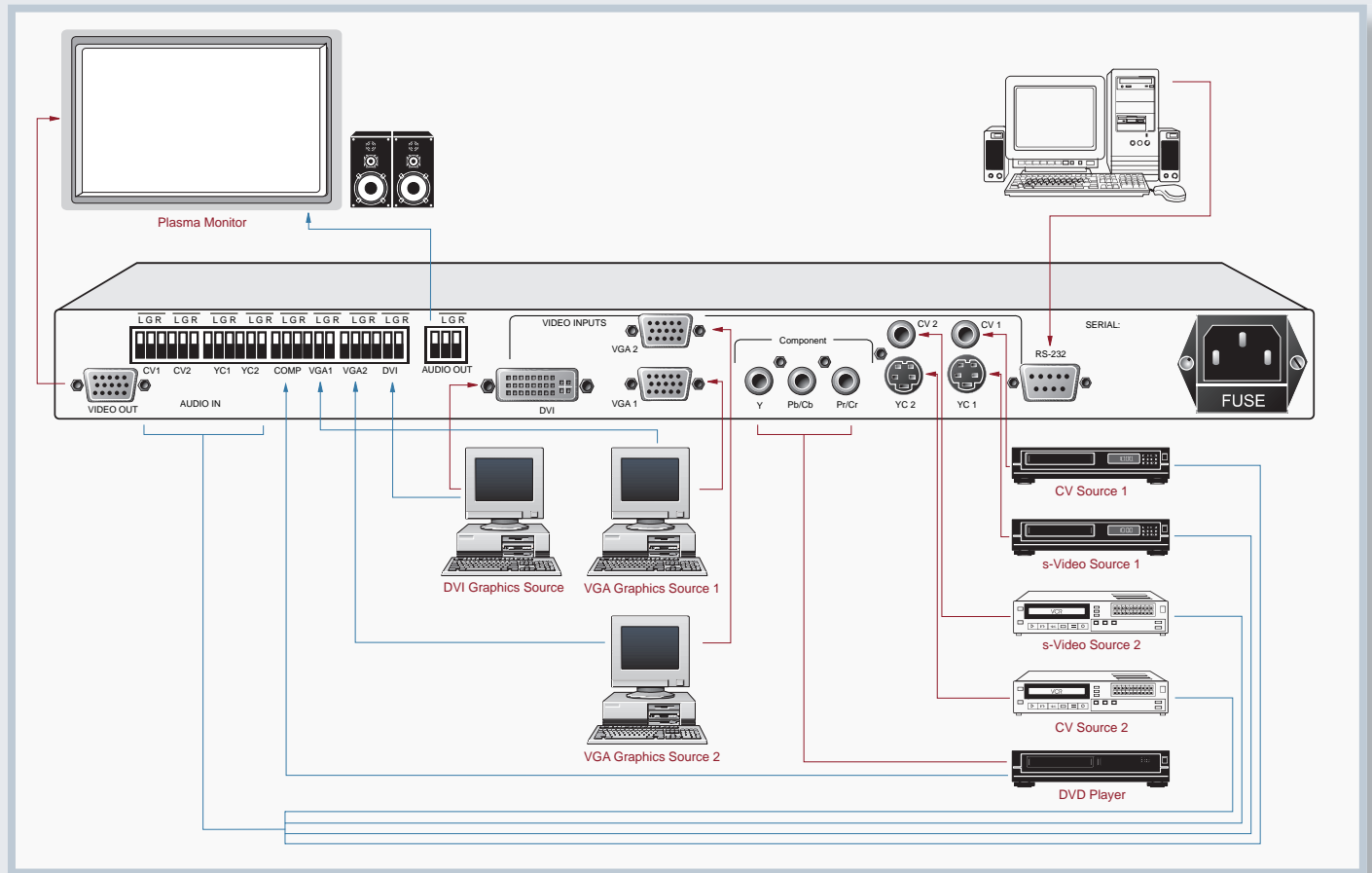
VP-724DS | Pro-Scale PHD8

Product Feature Comparison

	VP-719DS Pro-Scale 7	VP-720DS Pro-Scale P7	VP-723DS Pro-Scale PHD7	VP-724DS Pro-Scale PHD8
INPUTS				
CV	2	2	2	2
YC	2	2	2	2
YUV	1	1	1	1
VGA/UXGA	1	1	1	2
DVI-D	1	1	1	1
Stereo Audio	4	4	4	8
OUTPUTS				
RGBHV on HD15	1	1	1	1
Stereo Audio	1	1	1	1
HDTV 480p, 720p, 1080i	N	N	Y	Y
FEATURES				
PIP	N	Y	Y	Y
On Screen Display	Y	Y	Y	Y
Multiple Output Resolutions	Y	Y	Y	Y
Flash Upgradeable	Y	Y	Y	Y
IR Remote Control	Y	Y	Y	Y
RS-232 Control	Y	Y	Y	Y
Front Panel Control	Y	Y	Y	Y
3:2:2:2 pull down	Y	Y	Y	Y
POWER AND PHYSICAL				
Power 100-240 VAC	Y	Y	Y	Y
Weight	3 kg 6.6 lbs	3 kg 6.6 lbs	3 kg 6.6 lbs	3 kg 6.6 lbs
Size	19" 1U	19" 1U	19" 1U	19" 1U
WARRANTY				
Years	3	3	3	3

AVAILABLE OUTPUT RESOLUTIONS ON ALL MODELS

	@60Hz	@75Hz	@85Hz
(VGA) 640 x 480	Y	Y	Y
(SVGA) 800 x 600	Y	Y	Y
(XGA) 1024 x 768	Y	Y	Y
(SXGA) 1280 x 1024	Y	Y	-
(UXGA) 1600 x 1200	Y	-	-
852 x 1024	Y	-	-
1024 x 1024	Y	-	-
1366 x 768	Y	-	-
1365 x 1024	Y	Y	-
1280 x 720	Y	Y	Y
720 x 483	Y	-	-
852 x 480	Y	-	-
1400 x 1050	Y	Y	Y



Connecting the VP-724DS Pro-Scale PHD8



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