KRAMER





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VP-778 Quick Start Guide

This guide helps you install and use your VP-778 for the first time.

Go to <u>www.kramerav.com/downloads/VP-778</u> to download the latest user manual and check if firmware upgrades are available.

2 DVI-A (M) to 5 BNC (F) adaptor cables (ADC-DMA/5BF-1)

Check what's in the box

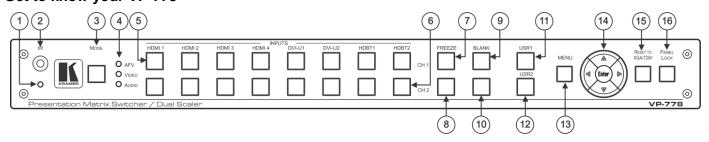
 ✓
 VP-778 Presentation Matrix Switcher/Dual Scaler
 ✓
 1 Set of rack ears
 ✓
 4 Rubber feet

 \mathbf{Y}

☑ IR remote control transmitter with batteries
☑ 1 Power cord
☑ 1 Quick start guide

Get to know your VP-778

2 DVI (M) to 15-pin HD (F) (AD-DM/GF)

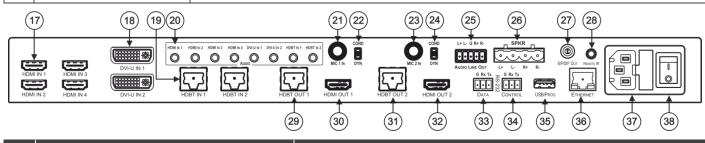


#	Feature		Function			
1	IR LED		Lights red when the unit accepts IR remote commands			
2	IR Receiver		Accepts IR remote commands			
3	MODE Button		Select the operation mode: AFV (audio follow video), VIDEO or AUDIO			
4	Mode LED indicate	ors	Indicate the operation mode, as selected via the MODE button			
5	CH 1 INPUT Selector Buttons	HDMI	Press to select the HDMI input (from 1 to 4)			
		DVI-U	Press to select the DVI-U (universal) input (from 1 to 2)			
		HDBT	Press to select the HDBT input (from 1 to 2)			
6	CH 2 INPUT Selector Buttons	HDMI	Press to select the HDMI input (from 1 to 4)			
		DVI-U	Press to select the DVI-U (universal) input (from 1 to 2)			
		HDBT	Press to select the HDBT input (from 1 to 2)			
7	CH 1 FREEZE Button		Press to freeze/unfreeze the CH 1 output video image			
8	CH 2 FREEZE Button		Press to freeze/unfreeze the CH 2 output video image			
9	CH 1 BLANK Button		Press to toggle between a blank screen (black) and the CH 1 display			
10	CH 2 BLANK Button		Press to toggle between a blank screen (black) and the CH 2 display			
11	USR1 User-defined Button		Press to launch a programmed command (for example, to turn a projector on)			
12	USR2 User-defined Button		Press to launch a programmed command (for example, to turn a projector off)			
13	MENU Button		Press to access/exit the OSD menu. Press and hold the MENU button to toggle between the same menu functions in CH1 and CH2 (for example, between CH1 brightness and CH2 brightness). When in the MIC Effects menu, press and hold the MENU button to toggle between MIC 1 and MIC 2			

VP-778 Quick Start (P/N: 2900-300445QS REV 4)

Rev: 4

#	Feature		Function
14	Navigation Buttons	∃ Button// VOLUME Button	Press to move to the previous level in the OSD screen. When not within the OSD menu, press to decrease the Audio CH1 volume
			Press to move to the next level in the OSD screen. When not within the OSD menu, increase the Audio CH 1 volume
		∇// VOLUME Button	Press to move down the menu list and to decrease numerical values. When in the transition mode and not within the OSD menu mode, press to decrease the Audio CH 2 volume
		△// VOLUME Button	Press to move up the menu list values and to increase numerical values. When in the transition mode and not within the OSD menu mode, press to increase the Audio CH 2 volume
		ENTER Button	Press to enter sub-menu items, and save. When in the transition mode and not within the OSD menu, performs as a TAKE button (to carry out a transition).
15	RESET TO XGA/720P Button		Press to reset the video output resolution to XGA or 720p and change the deep color settings to Off on the output. Press and hold for about 3 secs to toggle between reset to XGA and reset to 720p
16	PANEL LOCK Button		Press and hold for about 3 seconds to lock/unlock the front panel buttons



#	Feature			Function		
17	HDMI IN Connectors			Connect to the HDMI source (from 1 to 4)		
18	DVI-U IN Connectors			Connect to the video source that can be HDMI, VGA, Component or Composite video (from 1 to 2). See DVI-U pinout (Step 4)		
19	HDBT IN Conn	ectors		Connect to an HDBT Transmitter (for example, the Kramer TP-580Txr) to pass audio and video signals as well as serial commands (from 1 to 2)		
20	AUDIO Input Unbalanced	HDMI IN 3.5mm Mini Jack		Connect to an unbalanced audio source for HDMI 1 to HDMI 4 when using analog audio instead of embedded audio		
	Connectors	DVI-U IN 3.5mm Mini Jack		Connect to the unbalanced stereo audio of the DVI-U source (from 1 to 2)		
		HDBT IN 3.5mm Mini Jack		Connect to the unbalanced stereo audio source for HDBT1 to HDBT 2 when using analog audio instead of embedded audio		
21	MIC 1	6mn	n Jack	Connect to a microphone (see microphone pinout, Step 4)		
22		CON	ID/DYN MIC Switch	Select between a condenser and a dynamic type microphone		
23	MIC 2	6mn	n Jack	Connect to a microphone (see microphone pinout, Step 4).		
24		COND/DYN MIC Switch		Select between a condenser and a dynamic type microphone		
25	AUDIO LINE OUT (L, R) Terminal Block			Connect to the L and R balanced stereo audio acceptor		
26	SPKR OUT 4-pin Terminal Block			Connects to a pair of loudspeakers		
27	S/PDIF OUT RCA Connector			Connect to a digital audio acceptor		
28	REMOTE IR 3.5mm Mini Jack (opening) Covered by a cap. The 3.5mm connector at the end of the internal IR connection cable fits through this opening			Connects to an external IR receiver unit for controlling the machine via an IR remote controller (instead of using the front panel IR receiver), Optional. Can be used instead of the front panel (built-in) IR receiver to remotely control the machine (only if the internal IR connection cable has been installed)		
29	Channel 1 output connectors		HDBT OUT 1 RJ-45	Connect to an HDBT receiver (for example, Kramer TP-580Rxr) to pass Ethernet, audio and video signals, as well as serial commands		
30			HDMI OUT 1	Connect to an HDMI acceptor		
31	Channel 2 Output Connectors		HDBT OUT 2 RJ-45	Connect to an HDBT receiver (for example, Kramer TP-580Rxr) to pass Ethernet, audio and video signals, as well as serial commands		
32			HDMI OUT 2	Connect to an HDMI acceptor		
33	RS-232 DATA Terminal Block Connectors			Connect to the PC or the remote controller and pass data between this RS-232 port and the serial matrix (see Step 8)		
34	RS-232 CONTROL Terminal Block Connectors			Connect to the PC or the remote controller for RS-232 control of the VP-778		
35	USB PROG Connector			Connects to a USB drive to upgrade the firmware		
36	ETHERNET Connector			Connects to the PC or other Controller through computer networking		
37	Power Connector with Fuse			AC connector, enabling power supply to the unit		
38	POWER Switch			Switch for turning the unit on or off		

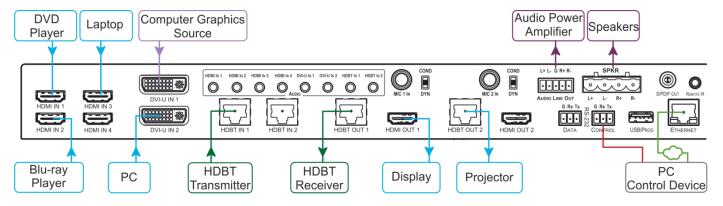
Install the VP-778

To rack mount the machine attach both ear brackets to the machine (by removing the three screws from each side of the machine and replacing those screws through the ear brackets) or place the machine on a table.



Connect the inputs and outputs

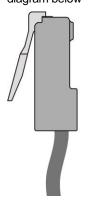
Always switch OFF the power on each device before connecting it to your VP-778. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the VP-778.

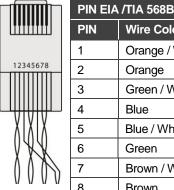


Note that you can connect DVI-U to an analog (VGA, composite or component video) or digital (HDMI or DVI) source.

RJ-45 Pinout:

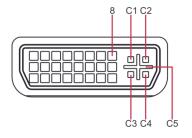
For the Ethernet and HDBaseT connectors, see the proper wiring diagram below





	THE EIGHT THE GOOD				
	PIN Wire Color				
	1	Orange / White			
45678 	2	Orange			
	3	Green / White			
ЩШ	4	Blue			
XIX	5	Blue / White			
KX	6	Green			
11	7	Brown / White			
V V V	8	Brown			

DVI-U Pinout:

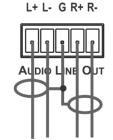


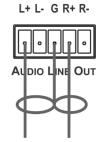
PIN	Wire Color		
C1	Red / Pb		
C2	Green / Y / CV		
C3	Blue / Pr		
C4	Horizontal sync (TTL)		
C5	Common return		
8	Vertical sync (TTL)		

Connect the audio output:

To a balanced stereo audio acceptor

To an unbalanced stereo audio acceptor





Microphone pinout:



Connect the power

Connect AC power to the rear of the VP-778, switch on its power and then switch on the power on each device.

Safety Instructions



Caution: There are no operator serviceable parts inside the unit.

Microphone + Microphone -Ground

Warning: Use only the power cord that is supplied with the unit.

Do not open the unit. High voltages can cause electrical shock! Servicing by qualified Warning:

personnel only.

Warning: Disconnect the power and unplug the unit from the wall before installing.

See www.KramerAV.com for updated safety information.

Set operation parameters via OSD menu

Enter the OSD menu via the MENU button on the front panel or the IR remote control transmitter. Select a menu item and set parameters as required.

If you cannot see any video output, verify that the display, TV, or projector is in good working order and is connected to the

VP-778. Verify that the **VP-778** is selected as the source. If you still cannot see any video output, press and hold the RESET TO XGA/720P button for 3 seconds to reset the output to XGA or 720p resolution.

Menu Item	Function		
Inputs	Sets the parameters for each input connector such as input type, native resolution, color depth, HDCP mode, audio input level and so on		
Layout	Sets the display mode, transition settings (transition speed, mode, effects, direction, and take) and overlay settings (single window and PIP types), as well as output resolution and other output settings		
Channel 1 / Channel 2	Sets the parameters for the Channel 1 / Channel 2 output including the source, aspect ratio, color settings, de-interlacing, noise reduction, projection, power save settings, test patterns, auto switching, audio settings and so on		
Misc	Displays the information, OSD settings, USR keypad settings, FW upgrade and factory reset		

Operate via the front panel buttons and via the:

IR remote controller:

Web pages:

RS-232 and Ethernet:



RS-232						
Protocol 3000						
Baud Rate:	115,200		Stop Bits:	1		
Data Bits:	8		Parity:	None		
Example (decrea	se the volume on the DVI-U2 input):		#Y 0,165,- <cr></cr>			
TCP/IP Parameters						
IP Address:	192.168.1.39	UDP Port #:		50000		
Subnet mask:	255.255.000.000	Maximum UDP Connections:		Unlimited		
Default gateway:	192.168.0.1	Maximum TCP Connections:		Unlimited		
TCP Port #:	5000					
Full Factory Res	Full Factory Reset					
OSD:	Factory Reset through the Misc menu item (including or excluding ETH)					
Protocol 3000:	Protocol 3000: Including ETH: use "Factory" command or #Y 0,561,1 <cr></cr>					
	Excluding ETH: use "Factory" command or #Y 0,562,1 <cr></cr>					
Web pages:	Factory reset via the Device Settings embedded Web page (including or excluding ETH)					
Front panel buttons:	Including ETH: power up the device with the "RESET TO XGA/720P" key pressed. The arrow and ENTER buttons flash. Full factory reset is complete once the LEDs cease to flash and react normally.					

Pass serial data via the device:

The **VP-778** lets you route serial data through its various ports in the following ways:

- Serial matrix up to eight sets of unidirectional connections can be configured for passing serial data from a selected source
 to a selected destination.
 Select the source/destination ports: port tunneling, the DATA RS-232 port, HDBT IN1, HDBT IN2 HDBT OUT1 or HDBT
 - Select the source/destination ports: port tunneling, the DATA RS-232 port, HDBT IN1, HDBT IN2 HDBT OUT1 or HDBT OUT2.
- **USR buttons** a programmable command is launched to a selected destination with a press of a USR button. Select the destination ports: port tunneling, the DATA RS-232 port, HDBT IN1, HDBT IN2 HDBT OUT1, HDBT OUT2 or all.



