



Scan for full manual

VP-778 Quick Start Guide

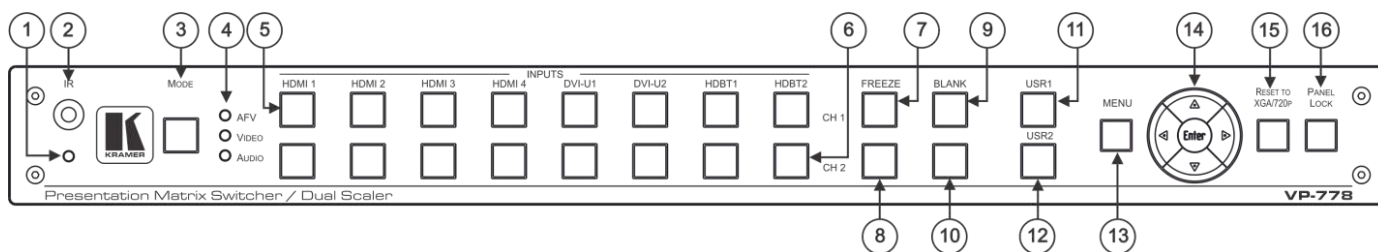
This guide helps you install and use your **VP-778** for the first time.

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

Step 1: Check what's in the box

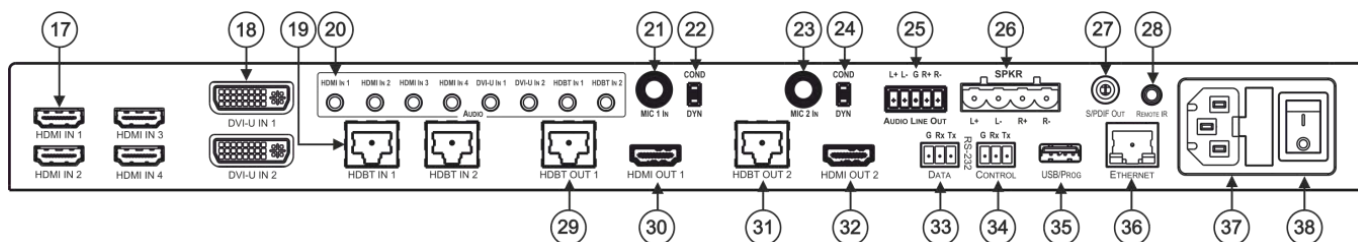
- ✓ **VP-778** Presentation Matrix Switcher/Dual Scaler
- ✓ 1 Set of rack ears
- ✓ 4 Rubber feet
- ✓ IR remote control transmitter with batteries
- ✓ 1 Power cord
- ✓ 1 Quick start guide
- ✓ 2 DVI (M) to 15-pin HD (F) (AD-DM/GF)
- ✓ 2 DVI-A (M) to 5 BNC (F) adapter cables (ADC-DMA/5BF-1)

Step 2: Get to know your VP-778



#	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: audio follow video (AFV), Video or audio
4	Mode LED indicators	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 universal input: HDMI, VGA, component or composite video (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 universal input: HDMI, VGA, component or composite video (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	can be assigned and programmed (for example, to turn a projector on and off)
12	USR2 User-defined Button	can be assigned and programmed (for example, to turn a projector on and off)
13	MENU Button	Press to access/exit the OSD menu. While browsing the CH1 OSD menu, press and hold the MENU button to jump to the CH2 menu and vice versa. When in the MIC Effects menu, press and hold the MENU button to toggle between MIC 1 and MIC 2

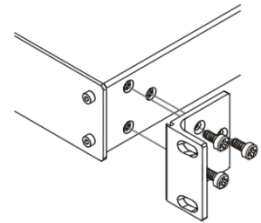
#	Feature	Function
14	Navigation Buttons	
	◀ Button// VOLUME Button	Press to move to the previous level in the OSD screen. When not within the OSD menu, press to decrease the Audio CH1 volume
	▶ Button // VOLUME Button	Press to move to the next level in the OSD screen. When not within the OSD menu, increase 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)	
19	HDBT IN Connectors	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 Connectors	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
		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	6mm Jack	Connect to a microphone (see microphone pinout)
		COND/DYN MIC DIP-switch	Select between a condenser and a dynamic type microphone
22	COND/DYN MIC DIP-switch		
23	MIC 2	6mm Jack	Connect to a microphone (see microphone pinout).
		COND/DYN MIC DIP-switch	Select between a condenser and a dynamic type microphone
24	COND/DYN MIC DIP-switch		
25	AUDIO LINE OUT (L, R) TBC	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 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 audio and video signals as well as serial commands IR?
32		HDMI OUT 2	Connect to an HDMI acceptor
33	RS-232 DATA 9-pin D-sub Port	Connect to the PC or the remote controller and pass data between this RS-232 port and the serial matrix (see step 8 below)	
34	RS-232 CONTROL 9-pin D-sub Port	Connect to the PC or the remote controller	
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	

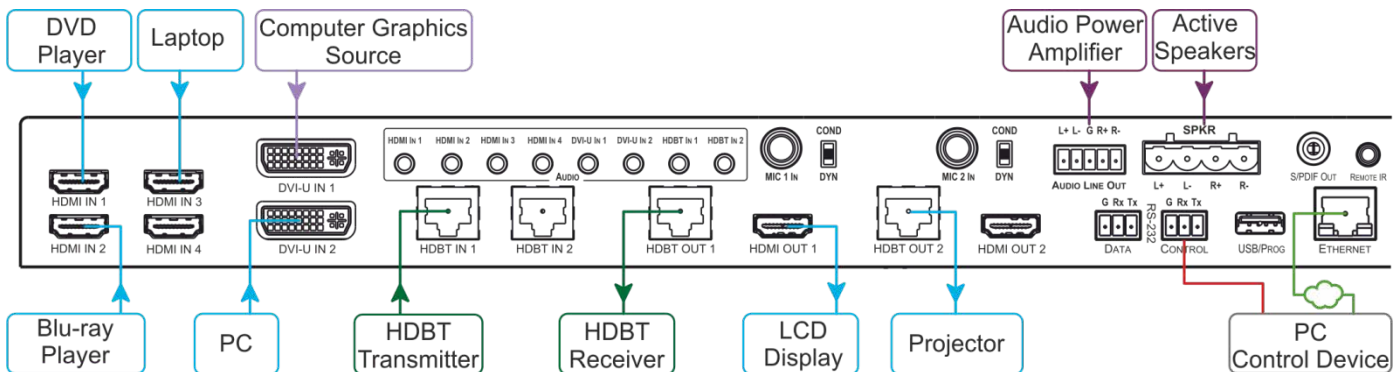
Step 3: Install the VP-778

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.



Step 4: Connect the inputs and outputs

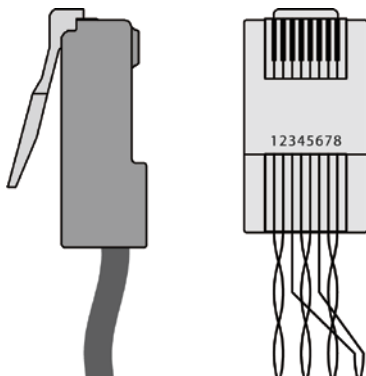
Always switch OFF the power on each device before connecting it to your **VP-778**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **VP-778**.



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

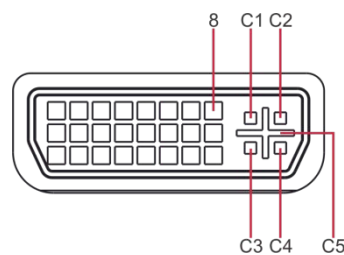
RJ-45 Pinout:

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



PIN EIA /TIA 568B	
PIN	Wire Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown

DVI-U Pinout:

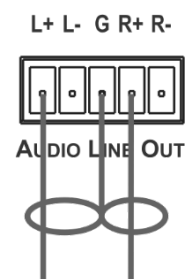
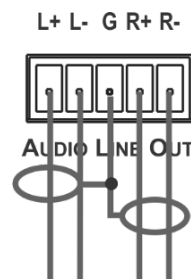


PIN	Wire Color
C1	Red / Pb
C2	Green / Y / CV
C3	Blue / Pr
C4	Horizontal sync (TTL)
C5	Common return
8	Vertical sync (TTL)

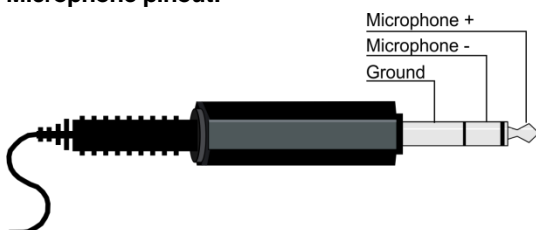
Connect the audio output:

To a balanced stereo audio acceptor

To an unbalanced stereo audio acceptor



Microphone pinout:



Step 5: 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.

Step 6: 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, audio settings and so on
Misc	Displays the information, OSD settings, USR keypad settings, FW upgrade and factory reset

Step 7: Operate via the front panel buttons and via the:

IR remote controller:



RS-232 and Ethernet:

RS-232			
Protocol 3000			
Baud Rate:	115,200	Stop Bits:	1
Data Bits:	8	Parity:	None
Example (decrease the volume on input 5):		#Y 0,116,-,5<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 Reset			
OSD	Factory Reset through the Misc menu item		
Protocol 3000	Including ETH: use "Factory" command or #Y 0,561,1<CR>		
	Excluding ETH: use "Factory" command or #Y 0,561,1<CR>		
Front panel buttons	Including ETH: power up the device with the "RESET TO XGA/720P" key pressed		

Step 8: 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 OUT2.
- USR buttons** – a programmable serial command passes 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