



Scan for full manual

## VP-770 Quick Start Guide

This guide helps you install and use your VP-770 for the first time.

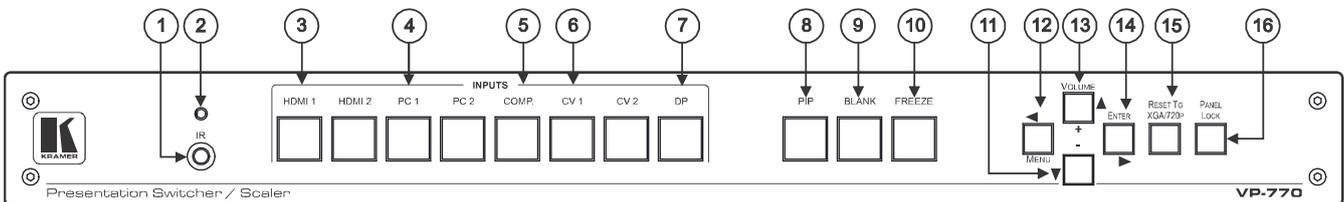
Go to [www.kramerav.com/downloads/VP-770](http://www.kramerav.com/downloads/VP-770) to download the latest user manual and check if firmware upgrades are available.

### Step 1: Check what's in the box

- ✓ VP-770 Presentation Switcher/Scaler
- ✓ IR remote control transmitter with batteries
- ✓ 1 Set of rack ears
- ✓ 1 Power cord
- ✓ 4 Rubber feet
- ✓ 1 Quick start guide

### Step 2: Get to know your VP-770

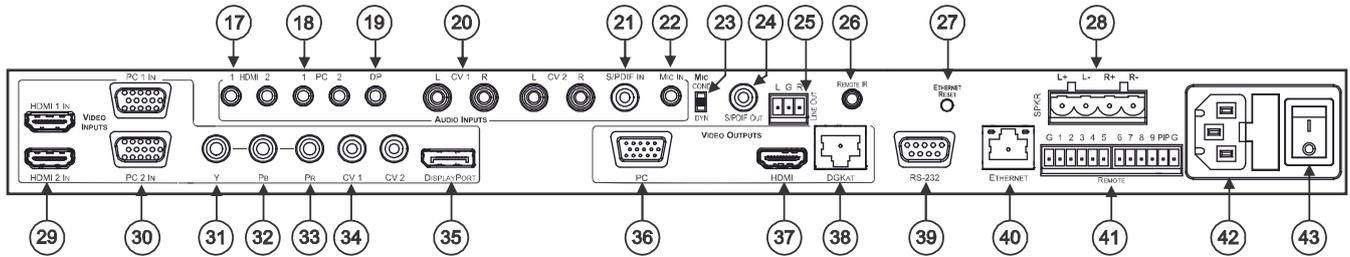
Front Panel



#	Feature	Function	
1	IR Receiver	Accepts IR remote commands	
2	IR LED	Lights red when the unit accepts IR remote commands	
3	INPUT Selector Buttons	HDMI™	Press to select the HDMI input (from 1 to 2)
4		PC	Press to select the computer graphics input (from 1 to 2)
5		COMP.	Press to select the component video input
6		CV	Press to select the composite video input (from 1 to 2)
7		DP	Press to select the Display Port input
8	PIP Button	Toggles the dual window mode (Picture-in-Picture) function Note that while browsing the OSD menu in the dual window mode, a long press of the PIP button will instantly toggle the window control (between Main and PiP)	
9	BLANK Button	Press to toggle between a blank screen (blue or black screen) and the display	
10	FREEZE Button	Press to freeze/unfreeze the output video image	
11	Navigation Buttons	▼/- Button	Press to move down the menu list and to decrease numerical values. When not within the OSD menu mode, press to reduce the output volume
12		◀/MENU Button	Press to access the OSD menu, exit the OSD menu and, when in the OSD menu, move to the previous level in the OSD screen
13		▲/+ /VOLUME Button	Press to move up the menu list values and to increase numerical values. When not within the OSD menu mode, press to increase the output volume
14		▶/ENTER Button	Press to access sub-menu items and select from several settings
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 seconds 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	

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

## Rear Panel



#	Feature	Function	
17	AUDIO IN Unbalanced Connectors	HDMI 3.5mm Mini Jack	
18		Connect to an unbalanced audio source for audio takeover of the HDMI 1 and HDMI 2 embedded audio.	
19		PC 3.5mm Mini Jack	
20		Connect to the unbalanced audio of the computer graphics source (from 1 to 2).	
21		DP 3.5mm Mini Jack	
22	Connect to the unbalanced audio source for analog audio takeover of the DisplayPort embedded audio.		
23	CV (L, R) RCA	Connect to the unbalanced stereo audio of the composite video source (from 1 to 2)	
24	S/PDIF IN RCA	Connect to the digital audio source of the component video (Y, Pb, Pr)	
25	MIC IN 3.5mm Mini Jack	Connect to a microphone	
26	COND/DYN MIC DIP-switch	Select between a condenser and a dynamic type microphone	
27	S/PDIF OUT RCA Connector	Connect to a digital audio acceptor	
28	LINE OUT (L, R) Terminal Block Connector	Connect to the L and R unbalanced stereo audio acceptor	
29	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)	
30		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)	
31		ETHERNET RESET Button	Press while turning power off and then on, to reset the Ethernet settings to their factory default state
32		SPKR Terminal Block Connector	Connect to a balanced stereo audio acceptor (speakers)
33		VIDEO INPUT Connectors	HDMI
34			Connect to the HDMI source (from 1 to 2)
35	PC 15-pin HD		
36	Connect to the computer graphics source (from 1 to 2)		
37	Y RCA		
38	PB RCA	Connect all three connectors to the component video source	
39	PR RCA		
40	CV RCA		
41	Connect to the composite video source (from 1 to 2)		
42	DISPLAYPORT	Connect to the DisplayPort source	
43	VIDEO OUTPUT Connectors	PC 15-pin HD	
44		Connect to a computer graphics acceptor	
45		HDMI	
46	Connect to an HDMI acceptor		
47	DGKAT RJ-45	Connect to a DGKat receiver (for example, Kramer PT-572+)	
48	RS-232 9-pin D-sub Port	Connect to the PC or other serial controller	
49	ETHERNET Connector	Connects to the PC or other Controller through computer networking	
50	REMOTE Terminal Block Connectors	For remotely switching the inputs and PIP input via contact closure switches	
51	Power Connector with Fuse	AC connector, enabling power supply to the unit	
52	POWER Switch	Switch for turning the unit ON or OFF	

## Step 3: Mount VP-770

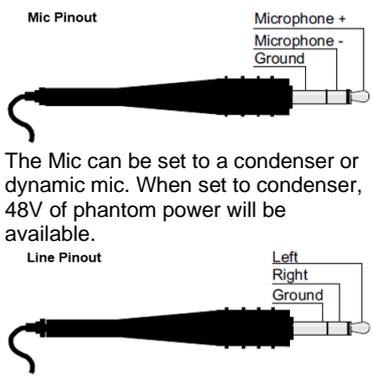
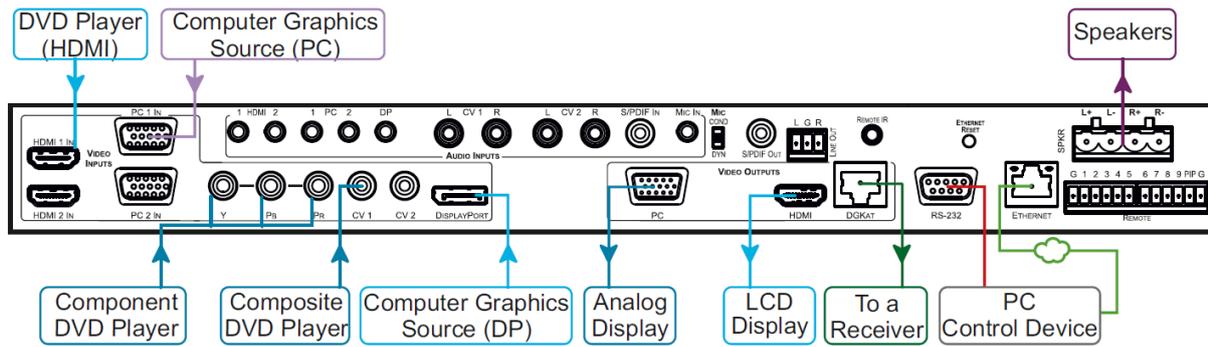
To rack mount the machine, attach both rack ears (by removing the screws from each side of the machine and replacing those screws through the rack ears) or place the machine on a table.



- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.

## Step 4: Connect inputs and outputs

Always switch OFF the power on each device before connecting it to your VP-770.



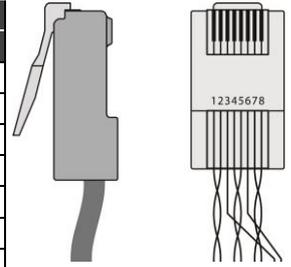
### Wiring the RJ 45 Connectors

This section defines the TP pinout, using a straight pin-to-pin cable with RJ 45 connectors.



For HDBT cables, it is recommended that the cable ground shielding be connected/soldered to the connector shield.

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



To achieve specified extension distances, use the recommended Kramer cables available at [www.kramerav.com/product/VP-770](http://www.kramerav.com/product/VP-770). Using third-party cables may cause damage!

## Step 5: Connect power

Connect the power cord to VP-770 and plug it into the mains electricity.

Safety Instructions (See [www.kramerav.com](http://www.kramerav.com) for updated safety information)

### Caution:

- For products with relay terminals and GPIO ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- There are no operator serviceable parts inside the unit.

### Warning:

- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.
- Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
- To ensure continuous risk protection, replace fuses only according to the rating specified on the product label which located on the bottom of the unit.

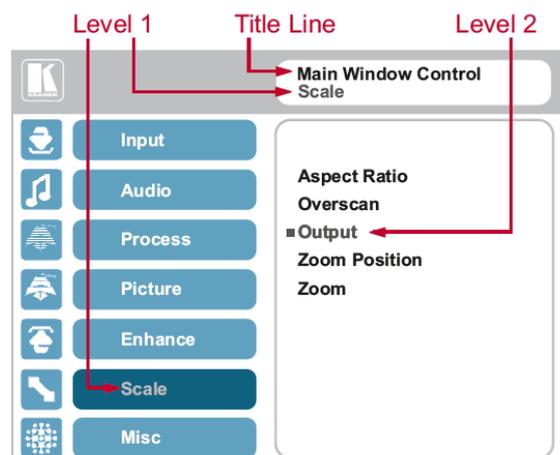
## Step 6: Operate VP-770

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. Sub-menus include: Input, Audio, Process, Picture, Enhance, Scale, and Misc.



By default, the output resolution is set to Native, the VP-770 is triggered to read the EDID of the main display and change the output resolution value according to the native resolution of the display.

If you cannot see any images, verify that the display, TV, or projector is in good working order and is connected to the VP-770. If you still don't see an image, press and hold the RESET TO XGA/720P button for 2 seconds to reset the output to XGA or 720p resolution.



Notable menu items include: Output Resolution, EDID Input Setting, HDCP Input Setting, Emergency Alert.

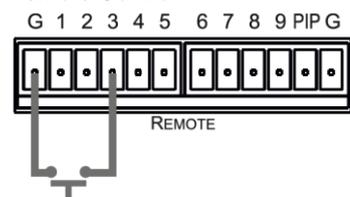
RS-232 Control / Protocol 3000			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	ASCII
Stop Bits:	1		
Example (Set display mode to Picture in Picture): #Y0,110,1<CR>			

Default Ethernet Parameters	
To reset the IP settings to the factory reset values, power cycle the device while holding in the Ethernet Reset button, located on the rear panel of the unit	
IP Address:	192.168.1.39
Subnet mask:	255.255.000.000
Default gateway:	000.000.000.000
TCP Port#:	5000
UDP Port#:	50000
Maximum UDP Ports:	10
Maximum TCP Ports:	4
Web page password	1234

Full Factory Reset	
Front panel buttons	Turn power off. Turn power on again while holding the RESET TO XGA/720p front panel button. The LEDs blink. Full factory reset is complete once the LEDs cease to blink and react normally Note that full factory reset includes Ethernet reset as well.
OSD	Factory Reset through the Misc. menu item
Web pages	Factory reset via the Device Settings embedded Web page
Protocol 3000	Use "Factory" command or #Y 0,771,1<CR>

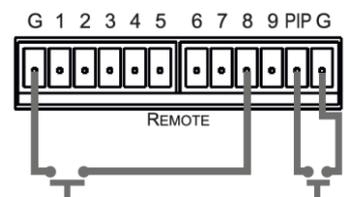
## Step 7: Select an input via the contact closure remote control pins

Remote Control



To select input 3, momentarily connect the 3 PIN to the G PIN.

Remote Control



To select PIP input 8, connect the PIP PIN to the G PIN and, within 3 seconds, momentarily connect the 8 PIN to the other G PIN.

## Step 8: Control the display via HDK at

To activate port tunneling:

1. Set the dedicated port tunneling Ethernet connection port type and port number through which the VP-770 will be passing RS-232 signals (TCP and 5050, by default).
2. Use the UART command to set the communication parameters (9600, 8, N and 1, by default).

