USER GUIDE

Control Software for VP-728, VP-729, VP-730, VP-731

Contents

Figures

1   Introduction

Control Software for VP-728, VP-729, VP-730, VP-731 is an optional software application for remotely controlling the Kramer VP-728, VP-729, VP-730 and VP-731 presentation switcher/scalers from a PC via either the RS-232 serial port or the Ethernet port.

Using this software you can operate the scaler, controlling features (depending on the model of your switcher) such as:

- Selecting an input video signal: composite, component, computer graphics, HDMI or a graphic from a USB source

- Selecting an input audio signal: balanced, unbalanced or digital S/PDIF

- Controlling the output: picture-in-picture, picture+picture, split screen, freeze frame and video output blanking

- Controlling the volume

- Changing picture parameters and audio settings

The **Control Software** application can be downloaded from the Kramer Web site: http://www.kramerelectronics.com

This guide describes how to install and operate your **Control Software**. We recommend that you review its contents before proceeding.

The information described in this manual is based on the information given in the *User Manuals* for the VP-728/29/30/31. For further explanations, see the *User Manual* of the respective device.

2 Installing the Control Software

Download the **Control Software** application from
http://www.kramerelectronics.com.

The **Control Software** requires the following:

- Windows™ XP, Vista or Windows™ 7
- Microsoft .Net Framework version 3.5

To install the **Control Software**:

1. Double click the *Setup.exe* file.

   The **Welcome** window appears:
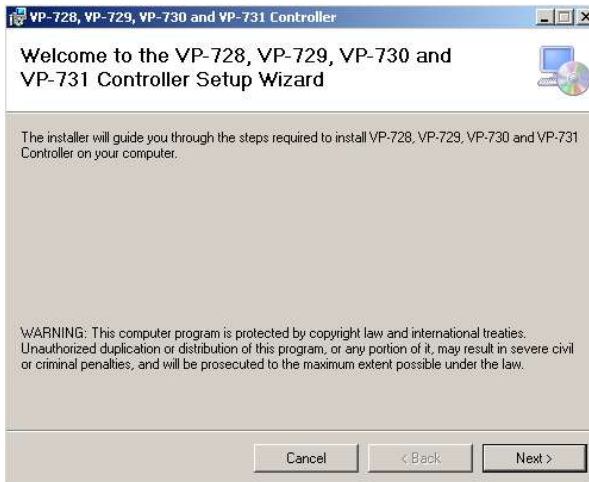
Figure 1: Welcome Window

2. Click **Next**.

   The **Choose Destination Location** window appears:

Control Software - Installing the Control Software

Figure 2: Choose Destination Location Window
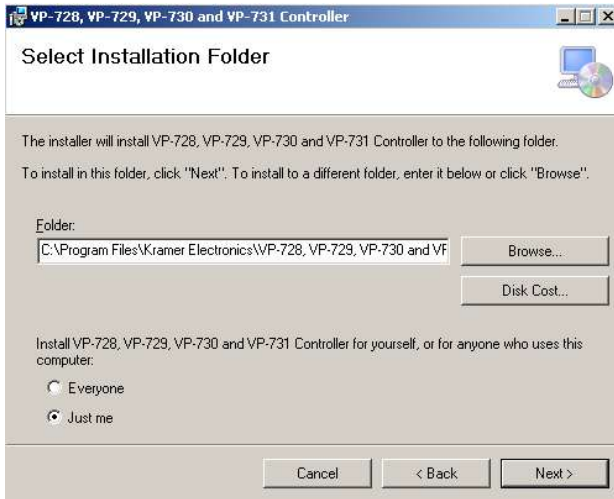
3. Click **Browse** to select the destination folder.

4. When finished, click **Next**.

   The **Confirm Installation** window appears:
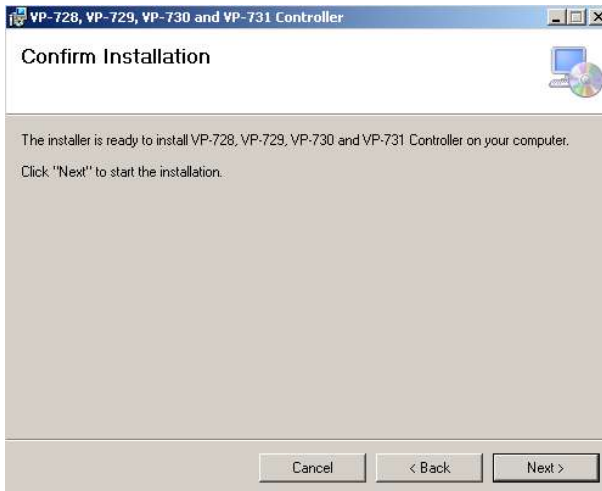
Figure 3: Confirm Installation

5. Click **Next**. The **Installation Progress** window appears:

Figure 4: Installation Progress Window

Then the **Installation Complete** window appears:
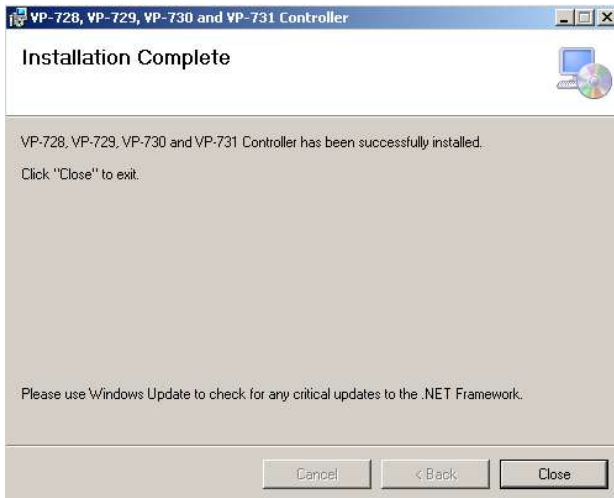
Figure 5: Installation Complete Window

6. Click **Close**.

   An icon appears on the desktop and a shortcut appears in the **Start Menu Programs** folder in the **Kramer** sub-folder.

2.1 Connecting the PC

Refer to the user manual of the specific device for instructions on how to connect the device to a PC.

3 Defining the Control Software

Double-click the **Control Software** icon to run the application. The main window opens (see Figure 6).

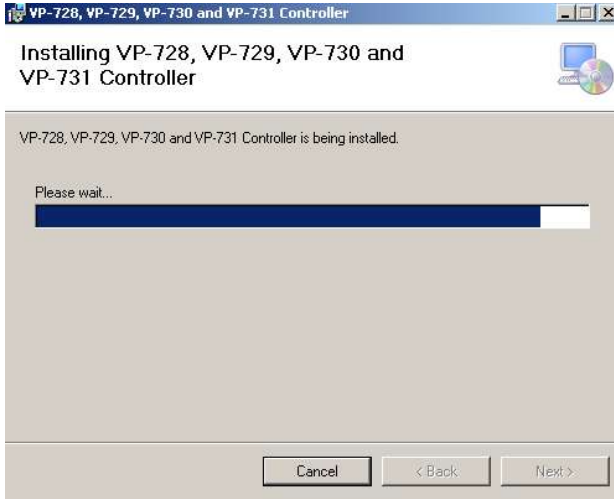The main window is divided into two bars – menu and command button tool bar; and four areas – Input Switch, PIP, Output Volume and Input Properties.

Figure 6 and the following tables define the **Control Software**.

Figure 6: Control Software Main Window

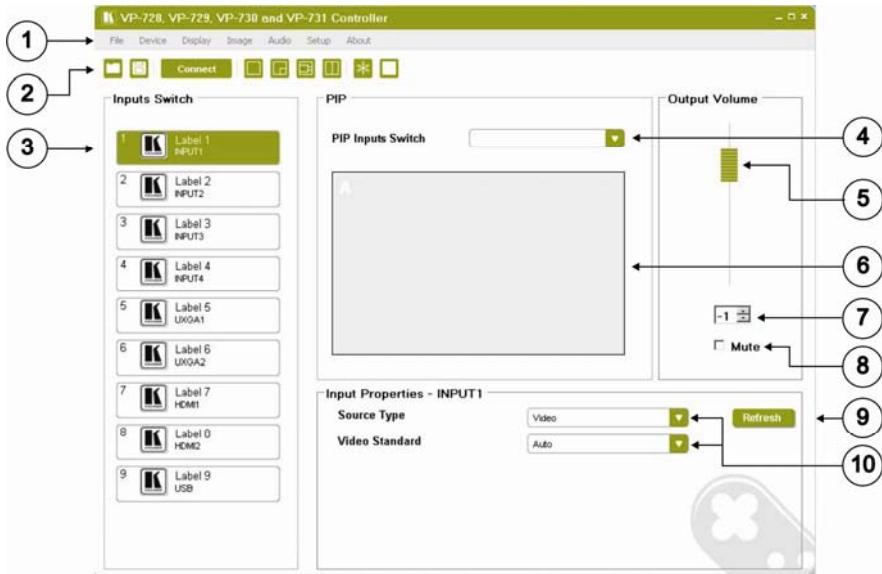| Main Window Features		
#	Feature	Function
1	Menu Bar	Bar containing all the menus used for configuration and control. For an explanation of all menus, see Section 3.1
2	Command Button Tool Bar	Buttons used for saving and opening predefined setups, connecting and disconnecting the device to be controlled and selecting PIP settings. For an explanation of all command buttons, see Section 3.2
3	*Input Switch* Buttons	Click one of the 9 input buttons to select a main input. The selected input button turns green, see Section 3.3 **Note**: The input switch button configuration is dependent on the type of switcher connected
4	*PIP Input Switch* Dropdown	Click to choose the source of the picture to insert in the PIP display, see Section 3.4
5	*Output Volume* Slider	Drag the slider up to increase the output volume; drag the slider down to decrease the output volume. The volume level is shown in the volume level indicator, feature 7, see Section 3.5
6	PIP Preview Window	This window shows how the PIP feature is configured
7	Volume Level Indicator	Shows the output volume numerically from -100 to +28
8	*Mute* Checkbox	Click this checkbox to turn off/on the output volume
9	*Refresh* Button	Rereads and reloads the present main Input settings
10	*Input Properties* Dropdowns	The properties displayed depend on the input chosen, see Section 3.6

3.1 The Menu Bar

The following table describes the **Control Software** menu bar options.

Menu	Sub Menu 1	Sub Menu 2	Description
File	Open		Open an existing profile
	Save		Saves the input label configuration
	Exit		Exit the **Control Software**
Device	Connect/Disconnect		Connects or disconnects the controlled device
	Factory reset		Returns the device to its preset default settings
	Refresh		Refreshes the information on the screen
	Panel Lock		Prevents tampering with the front panel buttons. Settings: On/Off
	Panel Save Lock		Select On or Off Set to ON to save the lock status when the machine is powered down
	Panel Input Lock		Select On or Off Set to OFF so you can still use the SOURCE buttons on the front panel even when the lock button is on

Menu	Sub Menu 1	Sub Menu 2	Description
Display	Presets		Full. PIP, Pic plus Pic, Split
	Output Resolution		
	Resolution Mode Set	Set Mode 1	1400x1050x60, 1680x1050x60
		Set Mode 2	1280x1024x75, 1280x1024x76
		Set Mode 3	1280x768x60, 1366x768x60
	HDMI Type		Auto, HDMI, DVI
	Frame Lock		On, Off
	Auto Image		Manual, auto
	Switching Mode		Seamless, fast
	HDCP Setting		Select Follow Input or Follow Output to define whether the HDCP will follow the input or the output
			When Follow Input is selected, the scaler changes its HDCP output setting (for the HDMI output) according to the HDCP of the input
			This option is recommended when the HDMI scaler output is connected to a splitter/switcher (in this mode, switching may not be glitch-free)
			When Follow Output is selected, the scaler matches its HDCP output to the HDCP setting of the HDMI acceptor to which it is connected
			This ensures smooth switching, regardless of the input
	Blank		Mute on, mute off
	Freeze		Mute on, mute off
	Advanced	Logo	Off, on, custom
		Blank color	Black, blue
		Background color	Black, blue, custom
Image	Properties	Output gamma	Adjust the gamma: Gamma 1, 2, 3
		Film mode	Set the film mode: Auto, Video, Film
		Temporal NR	Set the temporal noise reduction level: Off, Low, Medium, High
		Mosquito NR	Set the Mosquito noise reduction level: Off, Low, Medium, High
		Block NR	Set the block noise reduction level: Off, On
		Detail enhancement	Set the detail enhancement: Off, Low, Medium, High. If the USB input is selected, Detail Enhancement is set to Off
		Luma transition enhance	Set the luminance transition enhance level: Off, Low, High
		Chroma transition enhance	Set the chrominance transition enhance level: Off, Low, High
		Brightness	Adjust the brightness: 0 to 100
		Contrast	Adjust the contrast: 0 to 100
		Color	Adjust the color: 0 to 100
		Hue	Adjust the hue: 0 to 360
		Sharpness	0-100

Menu	Sub Menu 1	Sub Menu 2	Description
Audio	Properties	Type	Select the audio input type (available for IN 1 to IN 2): Analog or S/PDIF
		Loudness	Set the loudness: On/Off
		Delay	Define the delay type: Dynamic or User Define Select Dynamic for the audio delay to equal the pipeline video delay or User Define to set the delay time manually (via User Delay)
		User Delay	Available when selecting the User Defined delay: 0 to 340 (msec) Set the delay in 2msec steps
		USB	Select the audio signal to follow the USB signal: No audio, input 1, input 2
		HDMI 1	Select the audio source to be embedded: HDMI 1
		HDMI 2	Select the audio source to be embedded: HDMI 2
		Input volume	Adjust the input volume: -22 to +22
		Output volume	Adjust the output volume: -100 to +24
		Bass	Adjust the bass: -36 to 36
		Treble	Adjust the treble: -36 to 36
		Balance	Adjust the balance: -10 to 10
Setup	Store		Setup memory 1 – 8
	Recall		Setup memory 1 – 8
About			Displays the **Control Software** version and Kramer company details

3.2 The Command Button Tool Bar

The following table describes the **Control Software** Command Buttons.

Button	Button Name	Description
	Open	Open an existing profile
	Save	Saves the input label configuration
Connect	Connect/Disconnect	Connects or disconnects the controlled device
	Preset Full	Switches to a full-screen output
	Preset PIP	Switches to a picture-in-picture output
	Preset Pic+Pic	Switches to a picture-and-picture output
	Preset Split	Switches to a split screen output
	Freeze Window	Freezes the output display
	Set visibility of window	Blanks/shows the output display

3.3   Input Switches
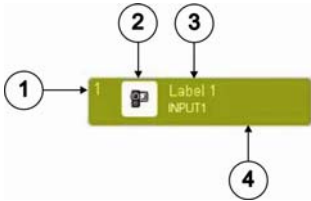
shows a typical input button.

Figure 7: Input Button

#	Feature	Description
1	*1*	Input number
2		User-selectable icon displayed on the button (see Section 5.3)
3	Label 1 INPUT 1	User-selectable button label
4	Background Color	Indicates the status of the input/output: Green—active; White—inactive

3.4   PIP Controls

The PIP controls determine which source is inserted into the secondary display. The chosen configuration (full, PIP, P&P, split screen) is shown in the PIP preview window (the actual video output is not shown here).

3.5   Output Volume Control

The Output Volume frame contains the volume slider to increase and decrease the output volume, a volume level indicator (that runs from -100 to 28) and a mute checkbox to turn off and on the output volume.

3.6 Input Properties

The following table describes the Input Properties frame.

Note: The fields displayed are dependent on the type of switcher connected and the type of input chosen.

Switch	Field 1	Field 2	Parameters
Input 1-4	Source Type - Component	H-position	Sets the horizontal position of the display: 0-1000
		V-position	Sets the vertical position of the display: 0-1000
		Phase	Sets the input phase: 0-31
	Source Type - Y/C	Video standard	Sets the video standard: Auto, NTSC, PAL
	Source Type - Video	Video standard	Sets the video standard: Auto, NTSC, PAL
Input 5-6	UXGA1	H-position	Sets the horizontal position of the display: 0-1000
		V-position	Sets the vertical position of the display: 0-1000
		Frequency	Sets the frequency for UXGA inputs: 0-50
		Phase	Sets the input phase: 0-31
Input 7-8	HDMI1	Color format	Sets the color format: Auto, RGB, YUV
		HDMI switch behavior	Set to DVD/Normal or PC/Bypass Set to Normal for sources with HDCP. When in Normal operation, the unit sends a hot plug to the source for any Group/Scaler switching request. There might be some graphic cards that might shut OFF the VGA/HDMI output following the hot plug detection. To prevent this, set this parameter to the Bypass mode so the unit will not send a hot plug for switching request (the hot plug will be detected by the source only when plugging a physical connection)
		HDMI Input HDCP	Set to On or Off for each HDMI input HDCP support can be enabled (On) or disabled (Off) for each of the HDMI inputs, allowing the source to transmit a non-HDCP signal if required (for example, when working with a Mac computer)
Input 9	USB	Slide show	Sets the speed of the slide show: Long, Max, Off

4 Connecting to the Device

To connect to the VP-728/29/30/31:

1. Navigate to **Device > Connect** or click the **Connect** button.

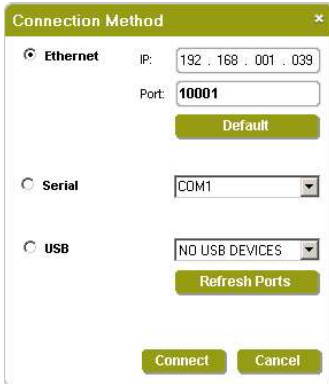   The **Connection Method** window displays as shown in Figure 8.

Figure 8: Connection Method Window

2. Select the connection method (via Ethernet over a LAN, serial connection or
   USB) by selecting the relevant option button.
   All switchers connect via RS-232. The VP-729 and VP-731 also connect via Ethernet.
   No devices currently connect via USB.

3. For Ethernet, enter the IP address and Port number of the device and click
   Connect.

   To set the default IP address and Port number, click the **Default** button.

4. For a serial connection, select the required Com port from the drop-down list.

5. The USB connection is not currently available.

6. Click **Connect**.

   If the connection is successful, the main window shown in Figure 6 appears.

   If the connection is not successful, a timeout error message appears.

5 Operating the Control Software

5.1 Switching an Input to an Output

To switch an input to the output:

- Click on the required input switch button to activate it.
  The input is selected and the button changes to green as shown in Figure 9.

Figure 9: Input Selection

5.2 Using the Preset Display Configurations

The output display can be configured using the presets: full, PIP, P+P and split.

- Full shows the full-screen display of the chosen Input Switch

- PIP shows the full display of the chosen Input Switch with an inserted image selected from the PIP Input Switch. The user can relocate the inserted image by dragging the window and resize it by dragging the corner of the window

- P+P shows the chosen Input Switch display side-by-side with the chosen PIP Input Switch display. The displays are equal sized and do not cover the full screen. They cannot be dragged or resized

- Split shows the two images side-by-side on the full screen. There may be distortion

To activate the presets:

1. Choose one of the following ways:

    - Navigate to **Menu > Display > Presets** and choose the desired preset OR

    - Click one of the preset tool bar command buttons
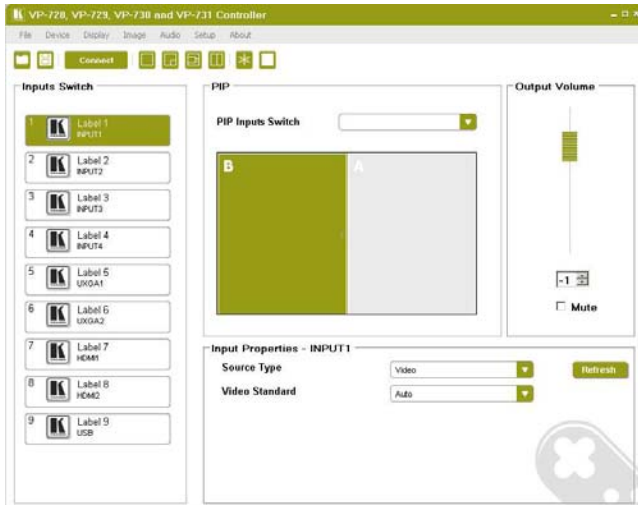
Figure 10 shows a split screen window.

Figure 10: Split Screen Window

2. Choose the second source by selecting an input from the PIP Inputs Switch.

3. Change input properties as desired in the Input Properties frame.

5.3   Customizing the Input Buttons

To change an input button icon and label:

1. Right-click the relevant input button.

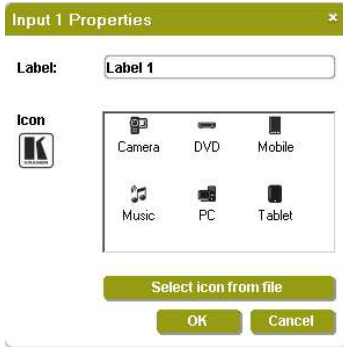   The button properties window appears as shown in Figure 11.

Figure 11: Input Button Properties Window

2. In the Label text field, enter the required button label.

3. Either:

   ▪ Select the required icon from the list (you can save custom icons)
     OR

   ▪ Click **Select icon from file** and browse to the icon directory

4. Click **OK**.

   The button characteristics are changed.

5. To save the customized button settings, click **Save**.