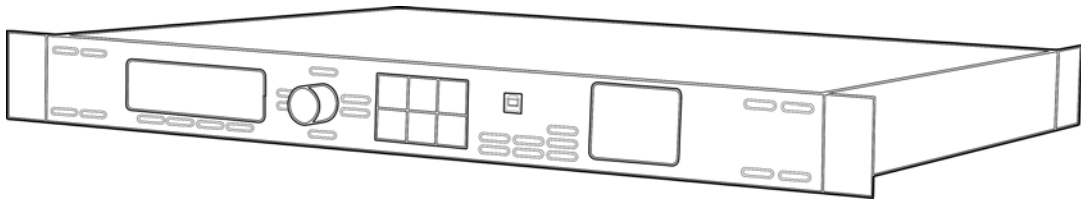


VIP

DRIVE 43s

User Manual



CHAUVET
PROFESSIONAL

EDITION NOTES

The VIP Drive 43s User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the VIP Drive 43s as of the release date of this edition.

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Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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Document Revision

This VIP Drive 43s User Manual is the 1st edition of this document. Go to www.chauvetprofessional.com for the latest version.

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1. BEFORE YOU BEGIN

What Is Included

- VIP Drive 43s
- 4 Rubber Feet
- Neutrik® powerCON® Power Cord
- USB Cable
- USB A to B Adapter
- Warranty Card

Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.





If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Manual Conventions

CONVENTION	MEANING
1–512	A range of values
50/60	A set of values of which only one can be chosen
<SET>	A button on the product’s control panel
Settings	A product function or a menu option

Symbols

SYMBOL	MEANING
	Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user.
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.



Any reference to power connections in this manual assumes the use of Neutrik® powerCON® cables.



The term “DMX” used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.



This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.



All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect the product from the power source before cleaning or replacing the fuse.
- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Do not touch the product's housing when operating because it may be very hot.

Mounting

- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture. (IP20)
- CAUTION: When transferring product from extreme temperature environments, (e.g. cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Make sure there are no flammable materials close to this product while it is operating.
- Never carry the product by the power cord.

Power and Wiring

- Make sure the power cord is not crimped or damaged.
- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if there is damage on the housing or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate the product at higher temperatures.
- In the event of a serious operation problem, stop using this product immediately!



If your Chauvet product requires service, contact Chauvet Technical Support.

2. INTRODUCTION

Description

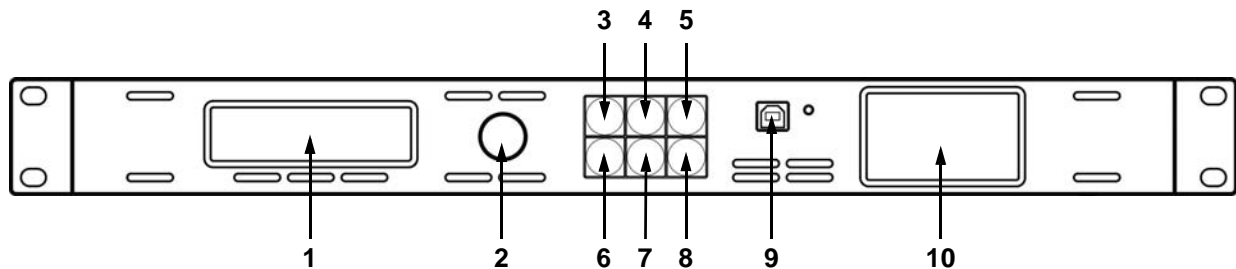
The VIP Drive 43s is a streamlined all in one video wall mapper/scaler/switcher designed for use with Linsn video control protocol. With 4 inputs, 3 outputs and a preview monitor, the VIP Drive 43s will map your wall, scale/switch your video source, and allow remote triggering via Art-Net (DMX over Ethernet) eliminating the need for individual mappers, scalers, and video switchers. HDCP support and EDID management further improve the flexibility of the VIP Drive 43s.

Features

- Video wall processor that switches, scales, and outputs video signal to any Linsn video panels (including PVP S5, PVP X3, PVP X6IP, C6)
- Powerful standalone mapping for video panels, without a computer.
- Custom user interface makes setting up your wall fast and easy
- Front, integrated video screen assists switching and timing for live events
- Remote control via Art-Net supports mapping, triggering, and video adjustments, including scaling and positioning
- Supports DVI, HDMI, and HD-SDI for flexibility in various applications
- Includes 4 etherCON video outputs to support full HD at 2.6 million LED resolution
- Works with LED Studio for complex configurations and panel calibration
- Compact 1U packing eases transportation and integration into your existing setup

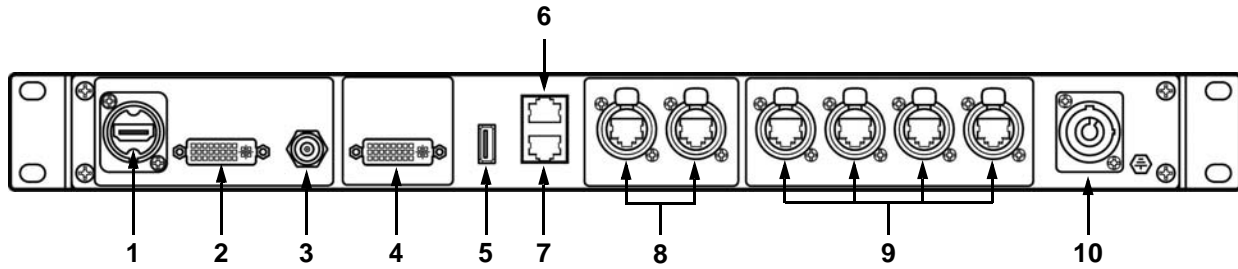
Product Overview

Front Panel Overview



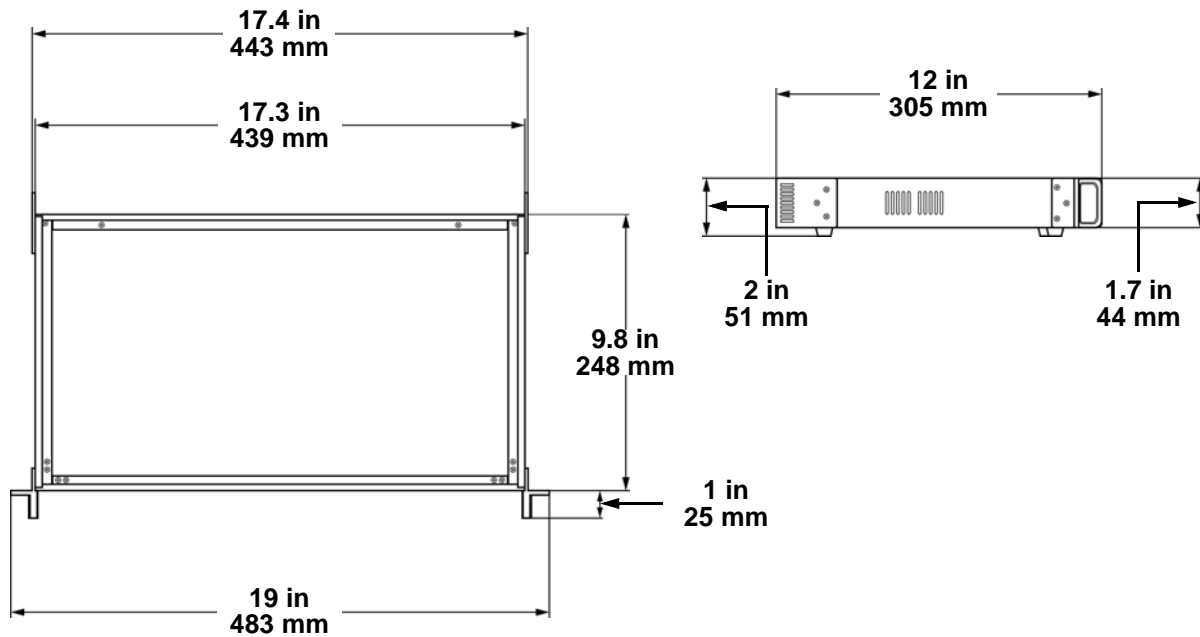
#	NAME	FUNCTION
1	Menu Display	An interface for the menu options of the product
2	SCROLL/ENTER Knob	Press to enable the currently selected menu option or set the currently selected value into the selected function. Turn clockwise to scroll down through the menu or increase a value when in a function. Turn counter-clockwise to scroll up through the menu or decrease a value when in a function.
3	MENU Button	Press to return to the previous menu level.
4	SCALE Button	Accesses the Scale menu. Can also be set to Black Out or Freeze.
5	MAP Button	Accesses the Map menu. Can also be set to Black Out or Freeze.
6	HDMI Button	Select input source
7	SDI Button	
8	DVI Button	
9	USB Port (Type B)	Control port to interface with computer
10	Preview Display	Previews selected input source before output to video panel

Rear Panel Overview



#	NAME	FUNCTION
1	HDMI Input	HDMI video input
2	DVI Input	DVI video input
3	SD/HD/3G-SDI Input	SDI video input
4	DVI PREVIEW OUT	For output preview on an external monitor
5	USB Port (Type A)	For connecting to a computer, or for USB cascade output (control only, no video)
6	Ethernet Slave In Port	Reserved for future use
7	Ethernet Slave Out Port	Reserved for future use
8	Art-Net™ Through Ports	For Art-Net™ control
9	Neutrik® etherCON® Ports	For output to LED video panels
10	Neutrik® powerCON® Input	Power input

Product Dimensions



3. SETUP

AC Power

Each VIP Drive 43s has an auto-ranging power supply that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the power requirements for each VIP Drive 43s, refer to the label affixed to the product. You can also refer to the Technical Specifications chart in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, download Sizing Circuit Breakers from the Chauvet website: www.chauvetprofessional.com.



- **Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**



Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The VIP Drive 43s comes with a power input cord terminated with a Neutrik® powerCON® connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need to change the plug, use the table below to wire the new plug.

CONNECTION	WIRE (U.S.)	WIRE (EUROPE)	SCREW COLOR
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Mounting

The VIP Drive 43s fits nicely on a standard 19" rack, or it can be placed on its rubber feet on a flat level surface.

Signal Connections

The VIP Drive 43s uses the Linsn control protocol to send video signal to the connected panels. The VIP Drive 43s has USB and Ethernet ports for interfacing with a computer, HDMI, SDI and DVI ports for video input, as well as 4 Neutrik® etherCON® out ports, a DVI out port, 2 ethernet slave ports, and 2 ethernet ports for Art-Net™ control.

Video Source Connection

You can link the VIP Drive 43s directly to a video source using a DVI connection, an HDMI connection, or an SDI connection.

Computer Connection

You can link the VIP Drive 43s to a computer running video mapping software (such as LED Studio) using a USB (type A or B) connection. This will provide control options for the VIP Drive 43s through a computer interface. Download the LED Studio software and User Manual from www.chauvetvideo.com.

Art-Net™ Connection

With Art-Net™, you can control the mapping and scaling, as well as the color balance and dimmer levels for all connected panels. You can link the VIP Drive 43s to a controller using an ethernet connection. If using other Art-Net™-compatible products with this product, you can control each individually with a single controller. The Art-Net™ Values section provides detailed information regarding the control channels.

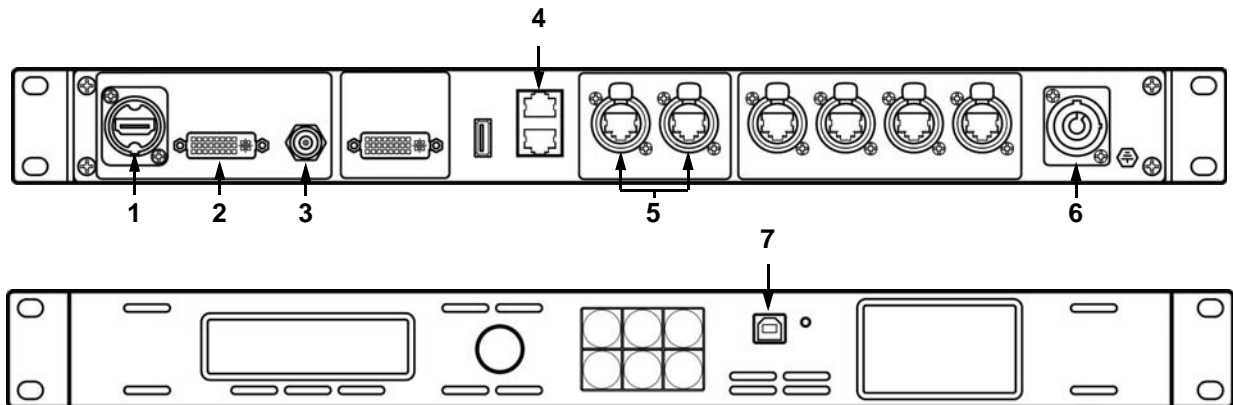
Art-Net™ is an Ethernet protocol that uses TCP/IP which transfers a large amount of DMX512 data using an Neutrik® etherCON® RJ45 connection over a large network. An Art-Net™ protocol document is available from www.chauvetprofessional.com.

Art-Net™ designed by and copyright Artistic Licence Holdings Ltd.

Preview Monitor Connection

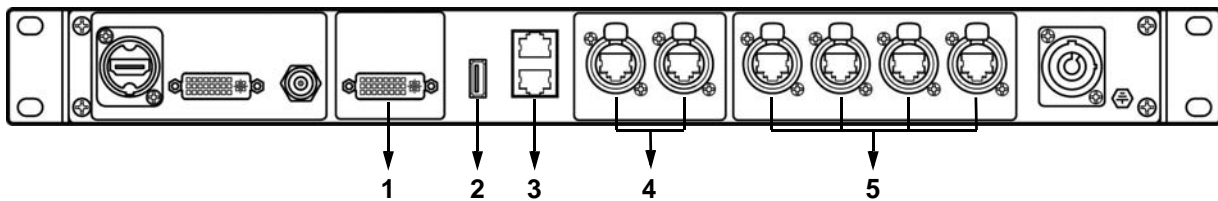
You can link the VIP Drive 43s to a monitor that will preview the LED output using a DVI cable plugged into the PREVIEW OUT port. This port can also be set to forward the selected input signal to another product. (See [Preview DVI Port](#))

Connection Diagrams
Input Connections Diagram



#	CONNECTIONS	PURPOSE
1	HDMI	Link to an HDMI signal
2	DVI	Link to a computer video output
3	SDI	Link to a video device, such as a camera or a DVD player
4	Slave Ethernet	Reserved for future use
5	Art-Net™ Ethernet	Link to an Art-Net™ network
6	Neutrik® powerCON®	Receive AC power
7	USB Type B	Interface with a computer

Output Connections Diagram



#	CONNECTIONS	PURPOSE
1	DVI	Preview monitor or another product
2	USB Type A	Interface with a computer
3	Slave Ethernet	Reserved for future use
4	Art-Net™ Ethernet	Link to an Art-Net™ network
5	Neutrik® etherCON®	LED video panels, such as the PVP X6IP from CHAUVET

4. OPERATION

Control Panel Operation

See the [Product Overview](#) for a detailed description of the control panel.

Programming

Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To access the menu from the Home Screen, press the **<MENU>** button.
- To scroll through the options on each level of the menu, turn the **<SCROLL/ENTER>** knob. Turn it clockwise to scroll down, and turn it counter-clockwise to scroll up.
- Press the **<SCROLL/ENTER>** knob to select the highlighted option. This will take you to the next programming level for that option, or it will highlight a value that can be edited.
- To increase a selected number value, turn the **<SCROLL/ENTER>** knob clockwise. To decrease a selected number value, turn the **<SCROLL/ENTER>** knob counter-clockwise.
- Press **<MENU>** to exit to the previous main level.

Menu Map

MAIN LEVEL	PROGRAMMING LEVELS			DESCRIPTION	
Brightness	0–100			Controls total output level	
Front Panel Lock	Front Panel Lock	Off	Input New Password 0000–9999	Locks the control functions on the front panel.	
		On			
Color Adjustments	Contrast		0–100	Sets contrast level	
	Saturation		0–100	Sets saturation level	
	Sharpness		0–100	Sets sharpness	
	Gamma		Linear	Linear gamma correction	
			sRGB	sRGB gamma correction	
			-1.2	Sets gamma correction level	
			1.2		
			-1.4		
			1.4		
			-1.6		
	1.6				
Color Temperature	Color Temperature	Full RGB		Color temperature is full white	
		Custom	Red Level	0–255	Sets maximum value of selected color to control color temperature
Green Level	0–255				
Blue Level	0–255				
Reset				Resets color adjustments	
Ethernet	Art-Net Start Address		1–512	Sets Art-Net™ starting address	
	Art-Net Universe		0–255	Sets Art-Net™ universe	
	IP Address		Local IP Address	---.---.---.--- (000–255)	Sets IP address
			Subnet Mask	---.---.---.--- (000–255)	Sets Subnet mask
Backup	Save Setup		Save1–10	Saves and loads configurations <SCROLL/ENTER> knob to confirm. <MENU> button to cancel.	
	Load Setup				
	Load Single From USB				
	Load all from USB		All		
	Save all to USB				

MAIN LEVEL	PROGRAMMING LEVELS		DESCRIPTION	
Transition	Deinterlace	Off	Enables/Disables Deinterlacing	
		On		
	Image Enhance	Off	Enables/Disables Image Enhance	
		On		
	Fade Type	Dissolve	Fade dissolve	
		Cut	Quick cut	
		Wipe Square In	Square wipe inward	
		Wipe Square Ou	Square wipe outward	
		Wipe T_L In	Top left wipe inward	
		Wipe T_L	Top left wipe outward	
		Wipe T_R In	Top right wipe inward	
		Wipe T_R	Top right wipe outward	
		Wipe B_L In	Bottom left wipe inward	
		Wipe B_L	Bottom left wipe outward	
		Wipe B_R In	Bottom right wipe inward	
		Wipe B_R	Bottom right wipe outward	
		Wipe Left In	Left wipe inward	
		Wipe Left	Left wipe outward	
		Wipe Right In	Right wipe inward	
		Wipe Right	Right wipe outward	
		Wipe Top In	Top wipe inward	
		Wipe Top	Top wipe outward	
		Wipe Bottom In	Bottom wipe inward	
		Wipe Bottom	Bottom wipe outward	
Fade	0.0-3.0s (increments of 0.5s)	Defines fade time		
Test Pattern	Test Pattern	Off	Enables/disables test pattern	
		On		
	Mode	1-20	Selects test pattern	
	Auto Switch	Off	Turns off or sets switch time	
		1-10s		
	Red	0-255	(Mode 19 Only)	Edits color of Test Pattern Mode 19
	Green			
	Blue			
	HOR STEP	2-64 (by doubles)	(Mode 20 Only)	Sets number of horizontal steps in gradient of Test Pattern Mode 20
	VER STEP	0-64 (increments of 4)		Sets number of vertical steps in gradient of Test Pattern Mode 20
	COLOR	Red		Selects color of gradient of Test Pattern Mode 20
		Green		
Blue				
White				
PIP	PIP	Off	Enables/disables Picture In Picture	
		On		

MAIN LEVEL	PROGRAMMING LEVELS			DESCRIPTION		
PIP (cont.)	Input	Default		Unchanged inputs		
		HDMI/DVI		Input 1: DVI / Input 2: HDMI		
		HDMI/SDI		Input 1: SDI / Input 2: HDMI		
		SDI/DVI		Input 1: DVI / Input 2: SDI		
		SDI/HDMI		Input 1: HDMI / Input 2: SDI		
		DVI/HDMI		Input 1: HDMI / Input 2: DVI		
		DVI/SDI		Input 1: SDI / Input 2: DVI		
	Position	L+T		Top left position		
		R+T		Top right position		
		L+B		Bottom left position		
		R+B		Bottom right position		
		Cent		Center position		
		L+R		Left and right position		
		T+B		Top and bottom position		
Select	INPUT1		Selects which input can be scaled or changed with buttons			
	INPUT2					
Swap	Off		Input 1 is the foreground			
	On		Input 1 is the background			
OLED Brightness	1–15			Sets the brightness of the menu display		
Video Input	HDMI	Overwrite	Auto		Detects input format	
			EDID Source	RGB DVI		Receive RGB DVI over HDMI
				RGB HDMI		Receive RGB HDMI
				PREVIEW DVI		Match format to PREVIEW OUT
				FOLLOW		Reserved for future use
			CUSTOM	---x ---@ --	Define input parameters	
	DVI	Overwrite	Auto		Detects input format	
			EDID Source	RGB DVI		Receive RGB DVI
				PREVIEW DVI		Match format to PREVIEW OUT
				FOLLOW		Reserved for future use
				CUSTOM	---x ---@ --	Define input parameters
			SDI	Auto		Detects input format
	Temperature	Temperature	Celsius		Selects temperature unit	
Fahrenheit						
Temperature	Temperature	-- C/F		Displays current product temperature in selected unit		
Advanced	Firmware Version		._._	Displays firmware version		
	Double-tap To Switch	Off		Enables/disables double-tap to switch input sources		
		On				
	Preview Output	Pre		Selects original video or edited video to preview		
		Post				
Preview DVI Port	Preview		DVI port outputs preview			
	Program		DVI port outputs video			

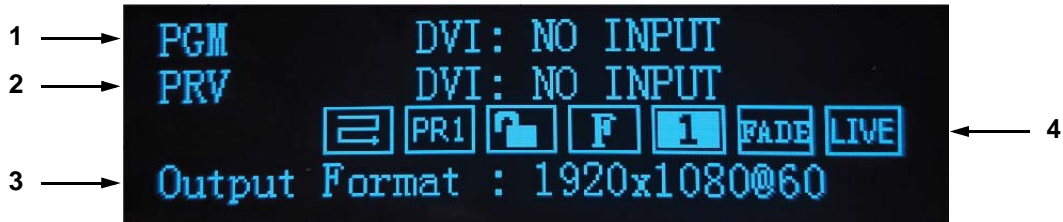
MAIN LEVEL	PROGRAMMING LEVELS			DESCRIPTION	
Advanced (cont.)	Factory Reset			Resets product to factory defaults	
	Customized Button	Scale	Scale	Button navigates to Scale menu	
			Blackout	Button blacks out panels	
			Freeze	Button freezes output	
		Map	Map	Button navigates to Map menu	
			Blackout	Button blacks out panels	
			Freeze	Button freezes output	
	Output Format	Standard	800x600@60	Selects preset output resolution and refresh rate	
			1024x768@60		
			1024x768@75		
			1280x720@60		
			1280x720@50		
			1280x768@60		
			1280x800@60		
			1280x1024@60		
			1360x768@60		
			1366x768@60		
			1400x1050@60		
			1440x900@60		
			1600x1200@60		
1680x1050@60					
1920x1080@60					
1920x1080@50					
1920x1200@60					
2048x1152@60					
2560x812@60					
2560x816@60					
Scale	H Size	2- _ _ _ _	Sets width of video output		
	V Size	2- _ _ _ _	Sets height of video output		
	H/V Size	2- _ _ _ _	Sets width and height of video output in proportion with resolution		
	H Position	0-(H Size)	Sets horizontal offset		
	V Position	0-(V Size)	Sets vertical offset		
	Auto Scale	No		Enables/disables Auto Scale	
		Yes			
	Reset			Resets scale	
	Advanced	Scale Mode		Global Scale	Reserved for future use
		Zoom/ Crop Image	Top		0- _ _ _ _
Bottom			0- _ _ _ _	Sets zoom from bottom	
Top/Bottom			0- _ _ _ _	Sets top and bottom zoom in proportion	
Left			0- _ _ _ _	Sets zoom from left	
Right			0- _ _ _ _	Sets zoom from right	

MAIN LEVEL		PROGRAMMING LEVELS			DESCRIPTION				
Scale (cont.)	Advanced (cont.)	Zoom/ Crop Image (cont.)	Left/Right		0- _ _ _ _	Sets left and right zoom in proportion			
			Center		0- _ _ _ _	Sets all zoom in proportion			
			Reset			Resets zoom settings			
Map	Offset Settings		Port 1/2 Offset X		0-65535	Sets horizontal offset for ports 1 and 2			
			Port 1/2 Offset Y		0-65535	Sets vertical offset for ports 1 and 2			
			Port 3/4 Offset X		0-65535	Sets horizontal offset for ports 3 and 4			
			Port 3/4 Offset Y		0-65535	Sets vertical offset for ports 3 and 4			
	Position Settings		Port 1 X		0-65535	Sets horizontal and vertical positions of each port			
			Port 1 Y		0-65535				
			Port 2 X		0-65535				
			Port 2 Y		0-65535				
			Port 3 X		0-65535				
			Port 3 Y		0-65535				
			Port 4 X		0-65535				
			Port 4 Y		0-65535				
	Port Tutorial		Port 1-4		Auto		Auto detect panels		
					Manual	Wall Size:		1-255x1-255	Enter width and height of panel assembly
						Panel Pixel Count:		1-999x1-999	Enter number of pixels per panel
						Total Pixel Res:		_ _ _ _ _	Displays total number of pixels
	Set Width		H Size		Auto		Populates width from mapping		
					Manual		2- _ _ _ _	Define width in pixels manually	
			Set Width			Saves setting			
	Test Grid		Port		Port 1-4		Selects port to output test grid		
Test Grid			Off			Enables/disables test grid			
			On						
Grid Color			Red			Selects color of grid			
			Green						
			Yellow						
Type			Cross			Selects pattern of grid			
			Row						
			Column						
			Rectangle						
Test Patterns		Auto Move			Test panel moves automatically				
		Manual		H Position		1- _ _	Move test panel manually, based on numbers mapped		
				V Position		1- _ _			
Moving				1-255	Auto move speed, fast to slow				

MAIN LEVEL	PROGRAMMING LEVELS				DESCRIPTION	
Map (cont.)	Test Grid (cont.)	Patterns Color	Red		Preset test panel colors	
			Green			
			Blue			
			Custom	Red Green Blue		0–255
	Port 1					The following options for port 1
	Wall Size WxH		1–255x1–255		Sets number of panels connected to port 1	
	Panel Pixel WxH		1–999x1–999		Sets number of pixels per panel	
	Connection Type				Sets data flow path	
	Save To Port					Saves configuration settings
	Port 2					The following options for port 2
	Wall Size WxH		1–255x1–255		Sets number of panels connected to port 2	
	Panel Pixel WxH		1–999x1–999		Sets number of pixels per panel	
	Connection Type				Sets data flow path	
	Save To Port					Saves configuration settings
	Port 3					The following options for port 3
	Wall Size WxH		1–255x1–255		Sets number of panels connected to port 3	
	Panel Pixel WxH		1–999x1–999		Sets number of pixels per panel	
	Connection Type				Sets data flow path	
	Save To Port					Saves configuration settings
	Port 4					The following options for port 4
	Wall Size WxH		1–255x1–255		Sets number of panels connected to port 4	
	Panel Pixel WxH		1–999x1–999		Sets number of pixels per panel	
	Connection Type				Sets data flow path	
	Save To Port					Saves configuration settings
Reset					Reset mapping	

Operating Settings Configuration

Home Screen



The VIP Drive 43s has a home screen that shows the current input sources, resolutions, refresh rates, and other operating settings. To see the home screen, wait until the display times out, or press **<MENU>** repeatedly until it shows on the display. To access the main menu from the home screen, press **<MENU>**.

1. With PIP off: shows the currently selected input source, resolution, and refresh rate.
With PIP on: shows the Input 1 source. resolution, and refresh rate.
2. With PIP off: shows the currently previewed input source, resolution, and refresh rate.
With PIP on: shows the Input 2 source. resolution, and refresh rate.
3. Shows the output resolution and refresh rate.
4. Shows the status of the product, with the following icons:

ICON	MEANING	ICON	MEANING	ICON	MEANING
	Displays current Port 1 Data Flow		Auto-Scale is enabled		Fade Type is set to Wipe B_R In
	No save is loaded		Auto-Scale is disabled		Fade Type is set to Wipe B_R
	Save1 is loaded		PIP is disabled		Fade Type is set to Wipe Left In
	Save2 is loaded		PIP is enabled		Fade Type is set to Wipe Left
	Save3 is loaded		Fade Type is set to Dissolve		Fade Type is set to Wipe Right In
	Save4 is loaded		Fade is set to Cut		Fade Type is set to Wipe Right
	Save5 is loaded		Fade Type is set to Wipe Square In		Fade Type is set to Wipe Top In
	Save6 is loaded		Fade Type is set to Wipe Square Ou		Fade Type is set to Wipe Top
	Save7 is loaded		Fade Type is set to Wipe T_L In		Fade Type is set to Wipe Bottom In
	Save8 is loaded		Fade Type is set to Wipe T_L		Fade Type is set to Wipe Bottom
	Save9 is loaded		Fade Type is set to Wipe T_R In		Output is video playback
	Save10 is loaded		Fade Type is set to Wipe T_R		Output is frozen
	Display is not locked		Fade Type is set to Wipe B_L In		Output is test pattern
	Display is locked		Fade Type is set to Wipe B_L		

Brightness

The brightness setting controls the total output level of the connected video panels.

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **Brightness** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the brightness, from **0–100**.
5. Press the **<SCROLL/ENTER>** knob.

Front Panel Lock

The front panel interface of the VIP Drive 43s can be locked with a 4-digit passcode.

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **Front Panel Lock** is selected.
3. Press the **<SCROLL/ENTER>** knob. **Front Panel Lock** should be selected. Press the **<SCROLL/ENTER>** knob again.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select **Off** or **On**.
5. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the first digit, from **0–9**. Repeat with the second, third, and fourth digits. Select each digit carefully.
6. Press the **<SCROLL/ENTER>** knob.
7. Repeat step 5 to enter the same number, to confirm the new passcode.
8. Press the **<SCROLL/ENTER>** knob.

To unlock the front panel interface of the VIP Drive 43s:

1. Press **<MENU>**, **<SCALE>**, **<MAP>**, or the **<SCROLL/ENTER>** knob.
2. Use the **<SCROLL/ENTER>** knob to enter the passcode as it was set in the previous instruction. Alternatively, entering **1 2 1 2** will also unlock the front panel interface.
3. Press the **<SCROLL/ENTER>** knob.

Color Adjustments

The Color Adjustments settings control output settings such as the contrast and color balance.

- **Contrast** controls the separation of different colors in the output.
- **Saturation** controls the intensity of all colors.
- **Sharpness** determines the amount of detail in the output.
- **Color Temperature** sets maximum values for each color, which affects the color temperature of the video output.
- **Gamma** controls the gamma correction, which applies a non-linear function to the tonal ranges in the video before output, which balances the brightness and darkness of the resulting video.
- **Reset** sets Color Adjustment settings to back to default.

To alter the Color Adjustment settings:

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **Color Adjustments** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Use the **<SCROLL/ENTER>** knob to select from **Contrast**, **Saturation**, **Sharpness**, **Red Level**, **Color Temperature**, or **Reset**.
5. For:
 - **Contrast**, **Saturation**, or **Sharpness**:
 - a. Press the **<SCROLL/ENTER>** knob.
 - b. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the selected value, from **0–100**.
 - c. Press the **<SCROLL/ENTER>** knob.
 - **Gamma**:
 - a. Press the **<SCROLL/ENTER>** knob.
 - b. Use the **<SCROLL/ENTER>** knob to select from **Linear**, **sRGB**, **-1.2**, **1.2**, **-1.4**, **1.4**, **-1.6**, or **1.6**.
 - c. Press the **<SCROLL/ENTER>** knob.

- **Color Temperature:**
 - a. Press the <SCROLL/ENTER> knob.
 - b. Use the <SCROLL/ENTER> knob to select from **Full RGB** or **Custom**.
 - c. Press the <SCROLL/ENTER> knob.
 - d. If **Custom** was selected, use the <SCROLL/ENTER> knob to select from **Red Level**, **Green Level**, or **Blue Level**.
 - e. Press the <SCROLL/ENTER> knob.
 - f. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the maximum value of the selected color, from **0–255**.
 - g. Press the <SCROLL/ENTER> knob.
 - h. Repeat steps d-g until the color temperature is set as desired.
- **Reset**, press the <SCROLL/ENTER> knob.

Ethernet

The VIP Drive 43s can connect with an Art-Net™ controller to allow control of a majority of the product's settings.

The Ethernet settings control the Art-Net™ and network addressing for the product.

To access the Ethernet menu:

1. Press <MENU> to access the menu.
2. Turn the <SCROLL/ENTER> knob until **Ethernet** is selected.
3. Press the <SCROLL/ENTER> knob.

Art-Net™ Start Address

The VIP Drive 43s uses 95 channels, which makes the highest recommended starting address **418**.

1. Access the [Ethernet](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Art-Net Start Address** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the address, from **1–512**.
5. Press the <SCROLL/ENTER> knob.

Art-Net™ Universe

To select in which Art-Net™ universe the VIP Drive 43s is addressed:

1. Access the [Ethernet](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Art-Net Universe** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the universe address, from **0–255**.
5. Press the <SCROLL/ENTER> knob.

IP Address

To set the IP address of the VIP Drive 43s:

1. Access the [Ethernet](#) menu.
2. Turn the <SCROLL/ENTER> knob until **IP Address** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Press the <SCROLL/ENTER> knob again.
5. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the first digit, from **000–255**.
6. Press the <SCROLL/ENTER> knob.
7. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the next digit, from **000–255**.
8. Repeat steps 6 and 7 twice.
9. Press the <SCROLL/ENTER> knob.

Subnet Mask

To set the subnet mask of the VIP Drive 43s:

1. Access the [Ethernet](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Subnet Mask** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Press the <SCROLL/ENTER> knob again
5. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the first digit, from **000–255**.
6. Press the <SCROLL/ENTER> knob.
7. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the next digit, from **000–255**.
8. Repeat steps 6 and 7 twice.
9. Press the <SCROLL/ENTER> knob.

Art-Net™ Values









CHANNEL	FUNCTION	VALUE	PERCENT/SETTING
1	Master Dimmer	000 ⇔ 255	0–100%
2	Port 1 Dimmer	000 ⇔ 255	0–100%
3	Port 2 Dimmer	000 ⇔ 255	0–100%
4	Port 3 Dimmer	000 ⇔ 255	0–100%
5	Port 4 Dimmer	000 ⇔ 255	0–100%
6	Contrast	000 ⇔ 255	0–100%
7	Saturation	000 ⇔ 255	0–100%
8	Control	000 ⇔ 010	No function
		011 ⇔ 020	Soft reset
		021 ⇔ 189	Reserved for future use
		190 ⇔ 195	Enable Map functions
		196 ⇔ 200	Factory reset
		201 ⇔ 255	Reserved for future use
9	Test Patterns	000 ⇔ 009	No function
		010 ⇔ 019	Test pattern 1
		020 ⇔ 029	Test pattern 2
		030 ⇔ 039	Test pattern 3
		040 ⇔ 049	Test pattern 4
		050 ⇔ 059	Test pattern 5
		060 ⇔ 069	Test pattern 6
		070 ⇔ 079	Test pattern 7
		080 ⇔ 089	Test pattern 8
		090 ⇔ 099	Test pattern 9
		100 ⇔ 109	Test pattern 10
		110 ⇔ 255	No function
10	HDMI Trigger/Dimmer	000	No function
		001 ⇔ 255	Selects HDMI input; Dimmer 1–100%
11	DVI Trigger/Dimmer	000	No function
		001 ⇔ 255	Selects DVI input; Dimmer 1–100%
12	SDI Trigger/Dimmer	000	No function
		001 ⇔ 255	Selects SDI input; Dimmer 1–100%

OPERATION









Art-Net™ Values (cont.)

CHANNEL	FUNCTION	VALUE	PERCENT/SETTING
13	Red Balance	000 ⇔ 255	0–100%
14	Green Balance	000 ⇔ 255	0–100%
15	Blue Balance	000 ⇔ 255	0–100%
16	Input 1 Horizontal Offset	000 ⇔ 255	0–100%, left to right
17	Input 1 Fine Horizontal Offset	000 ⇔ 255	0–100%, left to right
18	Input 1 Vertical Offset	000 ⇔ 255	0–100%, top to bottom
19	Input 1 Fine Vertical Offset	000 ⇔ 255	0–100%, top to bottom
20	Input 1 Horizontal Scaling	000 ⇔ 255	0–100%, narrow to wide
21	Input 1 Fine Horizontal Scaling	000 ⇔ 255	0–100%, narrow to wide
22	Input 1 Vertical Scaling	000 ⇔ 255	0–100%, short to tall
23	Input 1 Fine Vertical Scaling	000 ⇔ 255	0–100%, short to tall
24	Input 1 Center Zoom	000 ⇔ 255	0–100%, far to close
25	Input 1 Fine Center Zoom	000 ⇔ 255	0–100%, far to close
26	Input 1 Left/Right Zoom	000 ⇔ 255	0–100%, far to close
27	Input 1 Fine Left/Right Zoom	000 ⇔ 255	0–100%, far to close
28	Input 1 Top/Bottom Zoom	000 ⇔ 255	0–100%, far to close
29	Input 1 Fine Top/Bottom Zoom	000 ⇔ 255	0–100%, far to close
30	Input 2 Horizontal Offset	000 ⇔ 255	0–100%, left to right
31	Input 2 Fine Horizontal Offset	000 ⇔ 255	0–100%, left to right
32	Input 2 Vertical Offset	000 ⇔ 255	0–100%, top to bottom
33	Input 2 Fine Vertical Offset	000 ⇔ 255	0–100%, top to bottom
34	Input 2 Horizontal Scaling	000 ⇔ 255	0–100%, narrow to wide
35	Input 2 Fine Horizontal Scaling	000 ⇔ 255	0–100%, narrow to wide
36	Input 2 Vertical Scaling	000 ⇔ 255	0–100%, short to tall
37	Input 2 Fine Vertical Scaling	000 ⇔ 255	0–100%, short to tall
38	Input 2 Center Zoom	000 ⇔ 255	0–100%, far to close
39	Input 2 Fine Center Zoom	000 ⇔ 255	0–100%, far to close
40	Input 2 Left/Right Zoom	000 ⇔ 255	0–100%, far to close
41	Input 2 Fine Left/Right Zoom	000 ⇔ 255	0–100%, far to close
42	Input 2 Top/Bottom Zoom	000 ⇔ 255	0–100%, far to close
43	Input 2 Fine Top/Bottom Zoom	000 ⇔ 255	0–100%, far to close
44	Port 1/2 Horizontal Offset	000 ⇔ 255	0–100%, left to right
45	Port 1/2 Fine Horizontal Offset	000 ⇔ 255	0–100%, left to right
46	Port 1/2 Vertical Offset	000 ⇔ 255	0–100%, top to bottom
47	Port 1/2 Fine Vertical Offset	000 ⇔ 255	0–100%, top to bottom
48	Port 3/4 Horizontal Offset	000 ⇔ 255	0–100%, left to right
49	Port 3/4 Fine Horizontal Offset	000 ⇔ 255	0–100%, left to right
50	Port 3/4 Vertical Offset	000 ⇔ 255	0–100%, top to bottom

















Art-Net™ Values (cont.)

CHANNEL	FUNCTION	VALUE	PERCENT/SETTING
51	Port 3/4 Fine Vertical Offset	000 ⇄ 255	0–100%, top to bottom
52	Port 1 Horizontal Offset	000 ⇄ 255	0–100%, left to right
53	Port 1 Fine Horizontal Offset	000 ⇄ 255	0–100%, left to right
54	Port 1 Vertical Offset	000 ⇄ 255	0–100%, top to bottom
55	Port 1 Fine Vertical Offset	000 ⇄ 255	0–100%, top to bottom
56	Port 2 Horizontal Offset	000 ⇄ 255	0–100%, left to right
57	Port 2 Fine Horizontal Offset	000 ⇄ 255	0–100%, left to right
58	Port 2 Vertical Offset	000 ⇄ 255	0–100%, top to bottom
59	Port 2 Fine Vertical Offset	000 ⇄ 255	0–100%, top to bottom
60	Port 3 Horizontal Offset	000 ⇄ 255	0–100%, left to right
61	Port 3 Fine Horizontal Offset	000 ⇄ 255	0–100%, left to right
62	Port 3 Vertical Offset	000 ⇄ 255	0–100%, top to bottom
63	Port 3 Fine Vertical Offset	000 ⇄ 255	0–100%, top to bottom
64	Port 4 Horizontal Offset	000 ⇄ 255	0–100%, left to right
65	Port 4 Fine Horizontal Offset	000 ⇄ 255	0–100%, left to right
66	Port 4 Vertical Offset	000 ⇄ 255	0–100%, top to bottom
67	Port 4 Fine Vertical Offset	000 ⇄ 255	0–100%, top to bottom
68	Port 1 Horizontal Panel Quantity	000 ⇄ 255	1 to maximum (Ch. 8 must be 190–195)
69	Port 1 Vertical Panel Quantity	000 ⇄ 255	1 to maximum (Ch. 8 must be 190–195)
70	Port 1 Horizontal Pixels Per Panel	000 ⇄ 255	1 to 900 (Ch. 8 must be 190–195)
71	Port 1 Fine Horizontal Pixels Per Panel	000 ⇄ 255	1 to 99 (Ch. 8 must be 190–195)
72	Port 1 Vertical Pixels Per Panel	000 ⇄ 255	1 to 900 (Ch. 8 must be 190–195)
73	Port 1 Fine Vertical Pixels Per Panel	000 ⇄ 255	1 to 99 (Ch. 8 must be 190–195)
74	Port 1 Data Flow (Ch. 8 must be 190–195)	000 ⇄ 009	No function
		010 ⇄ 019	
		020 ⇄ 029	
		030 ⇄ 039	
		040 ⇄ 049	
		050 ⇄ 059	
		060 ⇄ 069	
		070 ⇄ 079	
		080 ⇄ 089	
		090 ⇄ 255	Reserved for future use

Art-Net™ Values (cont.)

CHANNEL	FUNCTION	VALUE	PERCENT/SETTING
75	Port 2 Horizontal Panel Quantity	000 ⇔ 255	1 to maximum (Ch. 8 must be 190–195)
76	Port 2 Vertical Panel Quantity	000 ⇔ 255	1 to maximum (Ch. 8 must be 190–195)
77	Port 2 Horizontal Pixels Per Panel	000 ⇔ 255	1 to 900 (Ch. 8 must be 190–195)
78	Port 2 Fine Horizontal Pixels Per Panel	000 ⇔ 255	1 to 99 (Ch. 8 must be 190–195)
79	Port 2 Vertical Pixels Per Panel	000 ⇔ 255	1 to 900 (Ch. 8 must be 190–195)
80	Port 2 Fine Vertical Pixels Per Panel	000 ⇔ 255	1 to 99 (Ch. 8 must be 190–195)
81	Port 2 Data Flow (Ch. 8 must be 190–195)	000 ⇔ 009	No function
		010 ⇔ 019	
		020 ⇔ 029	
		030 ⇔ 039	
		040 ⇔ 049	
		050 ⇔ 059	
		060 ⇔ 069	
		070 ⇔ 079	
		080 ⇔ 089	
		090 ⇔ 255	Reserved for future use
82	Port 3 Horizontal Panel Quantity	000 ⇔ 255	1 to maximum (Ch. 8 must be 190–195)
83	Port 3 Vertical Panel Quantity	000 ⇔ 255	1 to maximum (Ch. 8 must be 190–195)
84	Port 3 Horizontal Pixels Per Panel	000 ⇔ 255	1 to 900 (Ch. 8 must be 190–195)
85	Port 3 Fine Horizontal Pixels Per Panel	000 ⇔ 255	1 to 99 (Ch. 8 must be 190–195)
86	Port 3 Vertical Pixels Per Panel	000 ⇔ 255	1 to 900 (Ch. 8 must be 190–195)
87	Port 3 Fine Vertical Pixels Per Panel	000 ⇔ 255	1 to 99 (Ch. 8 must be 190–195)

Art-Net™ Values (cont.)

CHANNEL	FUNCTION	VALUE	PERCENT/SETTING
88	Port 3 Data Flow (Ch. 8 must be 190–195)	000 ⇔ 009	No function
		010 ⇔ 019	
		020 ⇔ 029	
		030 ⇔ 039	
		040 ⇔ 049	
		050 ⇔ 059	
		060 ⇔ 069	
		070 ⇔ 079	
		080 ⇔ 089	
		090 ⇔ 255	Reserved for future use
89	Port 4 Horizontal Panel Quantity	000 ⇔ 255	1 to maximum (Ch. 8 must be 190–195)
90	Port 4 Vertical Panel Quantity	000 ⇔ 255	1 to maximum (Ch. 8 must be 190–195)
91	Port 4 Horizontal Pixels Per Panel	000 ⇔ 255	1 to 900 (Ch. 8 must be 190–195)
92	Port 4 Fine Horizontal Pixels Per Panel	000 ⇔ 255	1 to 99 (Ch. 8 must be 190–195)
93	Port 4 Vertical Pixels Per Panel	000 ⇔ 255	1 to 900 (Ch. 8 must be 190–195)
94	Port 4 Fine Vertical Pixels Per Panel	000 ⇔ 255	1 to 99 (Ch. 8 must be 190–195)
95	Port 4 Data Flow (Ch. 8 must be 190–195)	000 ⇔ 009	No function
		010 ⇔ 019	
		020 ⇔ 029	
		030 ⇔ 039	
		040 ⇔ 049	
		050 ⇔ 059	
		060 ⇔ 069	
		070 ⇔ 079	
		080 ⇔ 089	
		090 ⇔ 255	Reserved for future use

Backup

The VIP Drive 43s can save up to 10 different settings configurations to be recalled at any time or loaded onto another VIP Drive 43s.

To access the Backup menu:

1. Press <MENU> to access the menu.
2. Turn the <SCROLL/ENTER> knob until **Backup** is selected.
3. Press the <SCROLL/ENTER> knob.

OPERATION

Save Configuration

To save the current settings configuration so it can be recalled at any time:

1. Access the [Backup](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Save Setup** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counter-clockwise to select from **Save1–10**.
5. Press the <SCROLL/ENTER> knob to save the current configuration to the selected save file.
6. Press <MENU> to exit.

Load Configuration

To load a previously saved configuration:

1. Access the [Backup](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Load Setup** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counter-clockwise to select from **Save1–10**.
5. Press the <SCROLL/ENTER> knob to load the selected save file into the product's settings.
6. Press <MENU> to exit.

Load One Configuration from USB

To save the current settings configuration from a USB-connected VIP Drive 43s:

1. Access the [Backup](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Load Single From USB** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counter-clockwise to select from **Save1–10**.
5. Press the <SCROLL/ENTER> knob to copy the connected product's settings into the selected save file.
6. Press <MENU> to exit.

Load All from USB

To copy all save files from a USB-connected VIP Drive 43s:

1. Access the [Backup](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Load all from USB** is selected.
3. Press the <SCROLL/ENTER> knob. The display will show **All** as the only option.
4. Press the <SCROLL/ENTER> knob to copy all of the connected product's save files.
5. Press <MENU> to exit.

Save All to USB

To copy all save files to a USB-connected VIP Drive 43s:

1. Access the [Backup](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Save all to USB** is selected.
3. Press the <SCROLL/ENTER> knob. The display will show **All** as the only option.
4. Press the <SCROLL/ENTER> knob to copy all save files to the connected product.
5. Press <MENU> to exit.

Transition

The Transition settings control deinterlacing and image enhancing, and determine the way the VIP Drive 43s will transition from one input source to another.

To access the Transition menu:

1. Press <MENU> to access the menu.
2. Turn the <SCROLL/ENTER> knob until **Transition** is selected.
3. Press the <SCROLL/ENTER> knob.

Deinterlacing

Deinterlacing is the process of converting an interlaced video signal (two fields of images per frame, traditionally for analog systems) into a progressive signal (a single image per frame). This option can be enabled for interlaced signals, or disabled for progressive signals.

1. Access the [Transition](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Deinterlace** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select **Off** or **On**.
5. Press the <SCROLL/ENTER> knob.

Image Enhance

The Image Enhance setting corrects for data loss or corruption, often due to cables (damaged, poor quality or too long) or radio frequency interference. With Image Enhance enabled, the VIP Drive 43s will detect any errors and correct them before the signal reaches the connected panel assembly.

1. Access the [Transition](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Image Enhance** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select **Off** or **On**.
5. Press the <SCROLL/ENTER> knob.

Fade Type

The Fade Type setting determines the way the VIP Drive 43s will transition from one image source to another.

1. Access the [Transition](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Fade Type** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select from:
 - **Dissolve** (The first image fades into the second)
 - **Cut** (No transition effect)
 - **Wipe Square In** (The second image wipes in from all sides, covering the first)
 - **Wipe Square Ou** (The first image wipes out from the center, revealing the second)
 - **Wipe T_L In** (The second image wipes in from the top left, covering the first)
 - **Wipe T_L** (The first image wipes out to the top left, revealing the second)
 - **Wipe T_R In** (The second image wipes in from the top right, covering the first)
 - **Wipe T_R** (The first image wipes out to the top right, revealing the second)
 - **Wipe B_L In** (The second image wipes in from the bottom left, covering the first)
 - **Wipe B_L** (The first image wipes out to the bottom left, revealing the second)
 - **Wipe B_R In** (The second image wipes in from the bottom right, covering the first)
 - **Wipe B_R** (The first image wipes out to the bottom right, revealing the second)
 - **Wipe Left In** (The second image wipes in from the left, covering the first)
 - **Wipe Left** (The first image wipes out to the left, revealing the second)
 - **Wipe Right In** (The second image wipes in from the right, covering the first)
 - **Wipe Right** (The first image wipes out to the right, revealing the second)
 - **Wipe Top In** (The second image wipes in from the top, covering the first)
 - **Wipe Top** (The first image wipes out to the top, revealing the second)
 - **Wipe Bottom In** (The second image wipes in from the bottom, covering the first)
 - or
 - **Wipe Bottom** (The first image wipes out to the bottom, revealing the second)
5. Press the <SCROLL/ENTER> knob.

Fade Time

The Fade Time setting determines the delay between selecting an input source and the transition.

1. Access the [Transition](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Fade** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select from **0.0s**, **0.5s**, **1.0s**, **1.5s**, **2.0s**, **2.5s**, or **3.0s**.
5. Press the <SCROLL/ENTER> knob.

Test Pattern

The Test Pattern function sends one of 20 patterns to the connected panel assembly to test the panels, the connections, and the mapping.

To access the Test Pattern menu:

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **Test Pattern** is selected.
3. Press the **<SCROLL/ENTER>** knob.

To enable or disable the Test Pattern function:

1. Access the [Test Pattern](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Test Pattern** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select **Off** or **On**.
5. Press the **<SCROLL/ENTER>** knob.

Test Pattern Mode

To select which pattern is sent to the connected panel assembly:

1. Access the [Test Pattern](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Mode** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select from **1–20**.
5. Press the **<SCROLL/ENTER>** knob.



Some panel configurations may be too small to view Test Patterns 3–10 and 13 properly.

Test Pattern Mode 19

With Test Pattern Mode 19 selected, after pressing the **<SCROLL/ENTER>** knob, 3 new options will appear. Test Pattern Mode 19 will only output to the connected panels after one of these options is selected.

After selecting Test Pattern Mode 19:

1. Turn the **<SCROLL/ENTER>** knob until **Red**, **Green**, or **Blue** is selected.
2. Press the **<SCROLL/ENTER>** knob.
3. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the color value, from **0–255**.
4. Press the **<SCROLL/ENTER>** knob.

Test Pattern Mode 20

With Test Pattern Mode 20 selected, after pressing the **<SCROLL/ENTER>** knob, 3 new options will appear.

- Horizontal Gradient Steps
 1. Turn the **<SCROLL/ENTER>** knob until **HOR STEP** is selected.
 2. Press the **<SCROLL/ENTER>** knob.
 3. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the number of horizontal steps in the gradient, from **2, 4, 8, 16, 32, or 64**.
 4. Press the **<SCROLL/ENTER>** knob.
- Vertical Gradient Steps
 1. Turn the **<SCROLL/ENTER>** knob until **VER STEP** is selected.
 2. Press the **<SCROLL/ENTER>** knob.
 3. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the number of vertical steps in the gradient, from **0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, or 64**.
 4. Press the **<SCROLL/ENTER>** knob.
- Color
 1. Turn the **<SCROLL/ENTER>** knob until **VER STEP** is selected.
 2. Press the **<SCROLL/ENTER>** knob.
 3. Turn the **<SCROLL/ENTER>** knob to select the color of the gradient, from **Red**, **Green**, **Blue**, or **White**.
 4. Press the **<SCROLL/ENTER>** knob.

Auto Switch

The Auto Switch function cycles through all of the test pattern modes at an adjustable rate.

1. Access the [Test Pattern](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Auto Switch** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select from **Off**, or **1–10s**.
5. Press the <SCROLL/ENTER> knob.

Picture In Picture

The PIP (Picture In Picture) function allows 2 input sources to be displayed on the connected panel assembly at once.

To access the PIP menu:

1. Press <MENU> to access the menu.
2. Turn the <SCROLL/ENTER> knob until **PIP** is selected.
3. Press the <SCROLL/ENTER> knob.

To enable or disable PIP:

1. Access the [PIP](#) menu.
2. Turn the <SCROLL/ENTER> knob until **PIP** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select **Off** or **On**.
5. Press the <SCROLL/ENTER> knob.

Input Selection

There are two methods of selecting the inputs in PIP mode. For button options, see [Input Mode](#).

To select both inputs through the menu:

1. Access the [PIP](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Input** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select from
 - **Default** (Input settings will be unchanged),
 - **HDMI/DVI** (Input 1: DVI, Input 2: HDMI)
 - **HDMI/SDI** (Input 1: SDI, Input 2: HDMI)
 - **SDI/DVI** (Input 1: DVI, Input 2: SDI)
 - **SDI/HDMI** (Input 1: HDMI, Input 2: SDI)
 - **DVI/HDMI** (Input 1: HDMI, Input 2: DVI)or
 - **DVI/SDI** (Input 1: SDI, Input 2: DVI)
5. Press the <SCROLL/ENTER> knob.

Position

The position setting determines where on the connected panel assembly the input designated as PIP will be displayed.

1. Access the [PIP](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Position** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select from
 - **L+T** (Top left of the panel assembly),
 - **R+T** (Top right of the panel assembly),
 - **L+B** (Bottom left of the panel assembly),
 - **R+B** (Bottom right of the panel assembly),
 - **Cent** (Center of the panel assembly),
 - **L+R** (One input on the left, the other on the right of the panel assembly),or
 - **T+B** (One input on the top, the other on the bottom of the panel assembly)
5. Press the <SCROLL/ENTER> knob.

Input Mode

Selecting **INPUT 1** or **INPUT 2** under PIP determines which input can be scaled, as well as which input can be changed by pressing one of the buttons on the front panel.

1. Access the **PIP** menu.
2. Turn the **<SCROLL/ENTER>** knob until **Select** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select **INPUT 1** or **INPUT 2**.
5. Press the **<SCROLL/ENTER>** knob.



Press **<HDMI>**, **<SDI>**, or **<DVI>** to change the source of the selected input.

Swap Inputs

The swap function switches which input is in the foreground and which is in the background.

1. Access the **PIP** menu.
2. Turn the **<SCROLL/ENTER>** knob until **Swap** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select **Off** (**INPUT 1** is in the foreground) or **On** (**INPUT 2** is in the foreground).
5. Press the **<SCROLL/ENTER>** knob.

Display Brightness

To alter the brightness of the menu display:

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **OLED Brightness** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the display brightness, from 1–15.
5. Press the **<SCROLL/ENTER>** knob.

Video Input

The Video Input settings determine the method the VIP Drive 43s communicates with the video sources. The product can detect the format of an incoming signal automatically, or can be overwritten with a specific format.

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **Video Input** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select from **HDMI**, **DVI**, or **HD-SDI**.
5. Press the **<SCROLL/ENTER>** knob.
6. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select either **Auto** or **Overwrite** (not available for HD-SDI).
7. Press the **<SCROLL/ENTER>** knob. If **Auto** was selected, the format of the input signal will be displayed. If **Overwrite** was selected, continue.
8. The display will read **EDID Source**. Press the **<SCROLL/ENTER>** knob.
9. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select from **RGB DVI**, **RGB HDMI**, **PREVIEW DVI**, **FOLLOW**, or **CUSTOM**.
10. Press the **<SCROLL/ENTER>** knob.
11. For:
 - **RGB DVI** (for an RGB DVI signal over DVI or HDMI), **RGB HDMI** (only available for HDMI), **PREVIEW DVI** (to copy the format of being output through the PREVIEW OUT port), or **FOLLOW** (reserved for future use), press the **<SCROLL/ENTER>** knob.
 - **CUSTOM**, set the resolution and refresh rate:
 - a. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the value of the first digit. Select carefully.
 - b. Press the **<SCROLL/ENTER>** knob.
 - c. Repeat with each digit until the resolution and refresh rate are set as desired.

Temperature

The Temperature option displays the current product temperature in either Celsius or Fahrenheit.

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **Temperature** is selected.
3. Press the **<SCROLL/ENTER>** knob. The current product temperature will be displayed.

To select the unit of temperature to display:

4. Press the **<SCROLL/ENTER>** knob again.
5. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select from **Celsius** or **Fahrenheit**.
6. Press the **<SCROLL/ENTER>** knob.

Advanced

The Advanced menu includes button controls, port assignment, a factory reset option, and preset output formats.

To access the Advanced menu:

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **Advanced** is selected.
3. Press the **<SCROLL/ENTER>** knob.

Firmware Version

To view the firmware version of the product, access the [Advanced](#) menu. The first line will display the firmware version.

Double-tap To Switch

The Double-tap To Switch option determines how many button presses are required to switch input sources.

1. Access the [Advanced](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Double-tap To Switch** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select **Off** (One press will switch input sources) or **On** (Button must be pressed twice to switch input sources).
5. Press the **<SCROLL/ENTER>** knob.

Preview Output

The Preview Output setting determines whether the preview display shows the video signal before or after scaling.

1. Access the [Advanced](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Preview Output** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select **Pre** (Outputs the unscaled video signal) or **Post** (Outputs the scaled video signal).
5. Press the **<SCROLL/ENTER>** knob.

Preview DVI Port

The Preview DVI Port setting determines whether the PREVIEW OUT port outputs a preview signal to a monitor, or a full video signal to another product.

1. Access the [Advanced](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Preview DVI Port** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select **Preview** or **Program**.
5. Press the **<SCROLL/ENTER>** knob.



With Program selected, the signal from the PREVIEW OUT port is unscaled.

Factory Reset

To reset the product to factory default settings:

1. Access the [Advanced](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Factory Reset** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Press the **<SCROLL/ENTER>** knob to confirm, or **<MENU>** to cancel.



Do not remove the product from power until it has finished performing the factory reset.

Customized Button

Aside from their default functions, the **<SCALE>** and **<MAP>** buttons can be assigned to either black out or freeze the output.

1. Access the [Advanced](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Customized Button** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select **Scale** or **Map**.
5. Press the **<SCROLL/ENTER>** knob.
6. For:
 - **Scale**, turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select from **Scale** (accesses the [Scale](#) menu), **Blackout** (Blacks out the output), or **Freeze** (Freezes the output).
 - **Map**, turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select from **Map** (accesses the Map menu), **Blackout** (Blacks out the output), or **Freeze** (Freezes the output).
7. Press the **<SCROLL/ENTER>** knob.

Output Format

To select a pre-defined output format:

1. Access the [Advanced](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Output Format** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. **Standard** will be selected. Press the **<SCROLL/ENTER>** knob again.
5. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to select from **800x600@60**, **1024x768@60**, **1024x768@75**, **1280x720@60**, **1280x720@50**, **1280x768@60**, **1280x800@60**, **1280x1024@60**, **1360x768@60**, **1366x768@60**, **1400x1050@60**, **1440x900@60**, **1600x1200@60**, **1680x1050@60**, **1920x1080@60**, **1920x1080@50**, **1920x1200@60**, **2048x1152@60**, **2560x812@60**, or **2560x816@60**.
6. Press the **<SCROLL/ENTER>** knob.

Scale

The Scale settings determine the size of the video output as well as the position of the output on the connected panel assembly. In PIP mode, the [Input Mode](#) determines which input is being scaled.

To access the Scale menu, press **<SCALE>** (if it is set to default), or:

1. Press **<MENU>** to access the menu.
2. Turn the **<SCROLL/ENTER>** knob until **Scale** is selected.
3. Press the **<SCROLL/ENTER>** knob.

Horizontal Size

To set the horizontal size of the product's output:

1. Access the [Scale](#) menu.
2. Turn the **<SCROLL/ENTER>** knob until **Scale** is selected.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob until **H Size** is selected.
5. Press the **<SCROLL/ENTER>** knob.
6. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the value, from **2-_-_-_-** (This value is determined by the [Video Input](#)).
7. Press the **<SCROLL/ENTER>** knob.

Vertical Size

To set the vertical size of the product's output:

1. Access the [Scale](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Scale** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob until **V Size** is selected.
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the value, from 2-____ (This value is determined by the [Video Input](#)).
7. Press the <SCROLL/ENTER> knob.

Horizontal and Vertical Scale

To set both the horizontal and vertical sizes of the product's output simultaneously:

1. Access the [Scale](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Scale** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob until **H/V Size** is selected.
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the value, from 2-____ (This value is determined by the [Video Input](#)).
7. Press the <SCROLL/ENTER> knob. The **H Size** and **V Size** fields will automatically populate in proportion.

Horizontal Offset

The Horizontal Offset setting determines how far to the right on the connected panel assembly the output of this VIP Drive 43s begins.

1. Access the [Scale](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Scale** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob until **H Position** is selected.
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the value, from 0-____ (This value is determined by the difference between the [Video Input](#) and the [Horizontal Size](#)).
7. Press the <SCROLL/ENTER> knob.

Vertical Offset

The Vertical Offset setting determines how far down on the connected panel assembly the output of this VIP Drive 43s begins.

1. Access the [Scale](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Scale** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob until **V Position** is selected.
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the value, from 0-____ (This value is determined by the difference between the [Video Input](#) and the [Vertical Size](#)).
7. Press the <SCROLL/ENTER> knob.

Auto Scale

The Auto Scale function sets the scaling based on the mapping, the connected panel assembly, and the [Video Input](#).

1. Access the [Scale](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Scale** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob until **Auto Scale** is selected.
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select **No** or **Yes**.
7. Press the <SCROLL/ENTER> knob.

OPERATION

Reset Scaling

To reset the scaling settings to default:

1. Access the [Scale](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Scale** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob until **Reset** is selected.
5. Press the <SCROLL/ENTER> knob.

Zoom/Crop Image

The Zoom/Crop Image menu provides the zoom functions for cropping the video output.

To access the Zoom/Crop Image menu:

1. Access the [Scale](#) menu.
2. Turn the <SCROLL/ENTER> knob until **Advanced** is selected.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob until **Zoom/Crop Image** is selected.
5. Press the <SCROLL/ENTER> knob.

There are 7 different zoom values that can be set to precision. Each one stretches the video output in 1, 2, or 4 directions.

1. Access the [Zoom/Crop Image](#) menu.
2. Turn the <SCROLL/ENTER> knob to select from **Top** (1), **Bottom** (1), **Top/Bottom** (2), **Left** (1), **Right** (1), **Left/Right** (2), or **Center** (4).
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the zoom, from **0-_____** (The maximum values are determined by the scale and the other zoom values. Editing these values may cause changes to the other zoom values).
5. Press the <SCROLL/ENTER> knob.
6. Repeat steps 2-5 until the zoom is set as desired.

Reset Zoom

To reset the zoom values to 0:

1. Access the [Zoom/Crop Image](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Reset**.
3. Press the <SCROLL/ENTER> knob.

Map

The Map settings define the arrangement and number of panels for each port, and well as semi-global and individual offsets.

To access the Map menu, press <MAP> (if it is set to default) or:

1. Press <MENU> to access the menu.
2. Turn the <SCROLL/ENTER> knob until **Map** is selected.
3. Press the <SCROLL/ENTER> knob.

Offset Settings

The Offset Settings determine the semi-global positions of ports 1 and 2 together and ports 2 and 3 together on the connected panel assembly.

1. Access the [Map](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Offset Settings**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select from **Port 1/2 Offset X** (ports 1 and 2 horizontal position), **Port 1/2 Offset Y** (ports 1 and 2 vertical position), **Port 3/4 Offset X** (ports 3 and 4 horizontal position), or **Port 3/4 Offset Y** (ports 3 and 4 vertical position).
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the value, from **0-65535**.
7. Press the <SCROLL/ENTER> knob.
8. Repeat steps 4-7 until the offsets are set as desired.

Position Settings

The Position Settings determine the individual offsets of each port.

1. Access the [Map](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Position Settings**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to select from **Port 1 X** (port 1 horizontal offset), **Port 1 Y** (port 1 vertical offset), **Port 2 X** (port 2 horizontal offset), **Port 2 Y** (port 2 vertical offset), **Port 3 X** (port 3 horizontal offset), **Port 3 Y** (port 3 vertical offset), **Port 4 X** (port 4 horizontal offset), or **Port 4 Y** (port 4 vertical offset).
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the value, from **0–65535**.
7. Press the <SCROLL/ENTER> knob.
8. Repeat steps 4-7 until the positions are set as desired.

Port Tutorial

The Port Tutorial settings provide 2 methods of mapping the size and number of pixels in the connected panel assembly to the VIP Drive 43s.

To access the Port Tutorial menu:

1. Access the [Map](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Port Tutorial**.
3. Press the <SCROLL/ENTER> knob.

Auto Port Tutorial

Selecting Auto under Port Tutorial will trigger the VIP Drive 43s to detect the panels connected to the selected port.

1. Access the [Port Tutorial](#) menu.
2. Turn the <SCROLL/ENTER> knob to select from **Port 1–4**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select **Auto**.
5. Press the <SCROLL/ENTER> knob.

Manual Port Tutorial

Selecting Manual under Port Tutorial will allow the arrangement of panels and pixels per panel to be entered precisely.

1. Access the [Port Tutorial](#) menu.
2. Turn the <SCROLL/ENTER> knob to select from **Port 1–4**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select **Manual**.
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the horizontal number of panels, from **1–255**.
7. Press the <SCROLL/ENTER> knob.
8. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the vertical number of panels, from **1–255**.
9. Press the <SCROLL/ENTER> knob.
10. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the horizontal number of pixels, from **1–999**.
11. Press the <SCROLL/ENTER> knob.
12. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the vertical number of pixels, from **1–999**.
13. Press the <SCROLL/ENTER> knob. The total number of pixels will auto-populate.

Set Width

The Set Width option determines the total width in pixels of the connected panel assembly.

1. Access the [Map](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Set Width**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select **H Size**.
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob to select from **Auto** (populates width from map settings) or **Manual** (enter width manually).
7. Press the <SCROLL/ENTER> knob.
8. If **Auto**, go to step 10. If **Manual**, turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the pixel width, from 2-____ (this value determined by the [Video Input](#)).
9. Press the <SCROLL/ENTER> knob.
10. Turn the <SCROLL/ENTER> knob to select **Set Width**.
11. Press the <SCROLL/ENTER> knob.



For Set Width to function correctly, the minimum [Wall Size](#) (WxH) is 3x2.

Test Grid

The Test Grid function sends a customizable grid to the connected panel assembly, with a single panel at a time lit up to test the mapping.

To access the Test Grid menu:

1. Access the [Map](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Test Grid**.
3. Press the <SCROLL/ENTER> knob.

To enable or disable the Test Grid:

1. Access the [Test Grid](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Test Grid**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select from **Off** or **On**.
5. Press the <SCROLL/ENTER> knob.

Test Grid Port

To select which port to test:

1. Access the [Test Grid](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Port**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select from **Port 1–4**.
5. Press the <SCROLL/ENTER> knob.

Test Grid Color

To select the color of the Test Grid:

1. Access the [Test Grid](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Grid Color**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select from **Red**, **Green**, or **Yellow**.
5. Press the <SCROLL/ENTER> knob.

Test Grid Type

There are 4 available types of test grid.

1. Access the [Test Grid](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Type**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select from **Cross**, **Row**, **Column**, or **Rectangle**.
5. Press the <SCROLL/ENTER> knob.

Test Grid Pattern Motion

The lit panel of the Test Grid can move from panel to panel automatically or manually.

1. Access the [Test Grid](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Test Patterns**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select from **Auto Move** or **Manual**.
5. Press the <SCROLL/ENTER> knob.
6. For **Manual**, turn the <SCROLL/ENTER> knob to select from **H Position** (horizontal) or **V Position** (vertical).
7. Press the <SCROLL/ENTER> knob.
8. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the value, from 1-__ (this value determined by the number of panels mapped to the selected port).
9. Repeat steps 5-8 to manually test that all panels were mapped correctly.

Test Grid Speed

To set the speed of the Auto Move:

1. Access the [Test Grid](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Moving**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the speed, from 1-255 (fast to slow).
5. Press the <SCROLL/ENTER> knob.

Test Grid Pattern Color

To select the color of the panel of the lit panel in the test grid:

1. Access the [Test Grid](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Patterns Color**. The default setting is **White**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob to select from **Red**, **Green**, **Blue**, or **Custom**.
5. Press the <SCROLL/ENTER> knob.
6. If **Custom**, turn the <SCROLL/ENTER> knob to select from **Red**, **Green**, or **Blue**.
7. Press the <SCROLL/ENTER> knob.
8. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the color value, from 0-255.
9. Press the <SCROLL/ENTER> knob.
10. Repeat steps 6-9 until the lit panel is the desired color.

Mapping by Port

The rest of the options under Map determine the mapping for each port separately. Each of the following options appears 4 times, once for each port.

Wall Size

The Wall Size setting determines the number and arrangement of panels by width and height for the selected port.

1. Access the [Map](#) menu.
2. Turn the <SCROLL/ENTER> knob to select **Wall Size WxH** under **Port 1**, **Port 2**, **Port 3**, or **Port 4**.
3. Press the <SCROLL/ENTER> knob.
4. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the horizontal quantity, from 1-255.
5. Press the <SCROLL/ENTER> knob.
6. Turn the <SCROLL/ENTER> knob clockwise or counterclockwise to increase or decrease the vertical quantity, from 1-255.
7. Press the <SCROLL/ENTER> knob.

OPERATION

Pixels per Panel









The Panel Pixel setting determines the number and arrangement of pixels per panel by width and height for the selected port.

1. Access the [Map](#) menu.
2. Turn the **<SCROLL/ENTER>** knob to select **Panel Pixel WxH** under **Port 1, Port 2, Port 3, or Port 4**.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the horizontal quantity of pixels per panel, from **1–999**.
5. Press the **<SCROLL/ENTER>** knob.
6. Turn the **<SCROLL/ENTER>** knob clockwise or counterclockwise to increase or decrease the vertical quantity of pixels per panel, from **1–999**.
7. Press the **<SCROLL/ENTER>** knob.

Connection Type

The Connection Type setting determines the path of data flow for the selected port.

1. Access the [Map](#) menu.
2. Turn the **<SCROLL/ENTER>** knob to select **Connection Type** under **Port 1, Port 2, Port 3, or Port 4**.
3. Press the **<SCROLL/ENTER>** knob.
4. Turn the **<SCROLL/ENTER>** knob to select from one of the following icons:

ICON	MEANING	ICON	MEANING
	Starts at the top left, goes all the way right, down one, all the way left, down one, and repeats.		Starts at the top left, goes all the way down, right one, all the way up, right one, and repeats.
	Starts at the top right, goes all the way left, down one, all the way right, down one, and repeats.		Starts at the bottom left, goes all the way up, right one, all the way down, right one, and repeats.
	Starts at the bottom left, goes all the way right, up one, all the way left, up one, and repeats.		Starts at the top right, goes all the way down, left one, all the way up, left one, and repeats.
	Starts at the bottom right, goes all the way left, up one, all the way right, up one, and repeats.		Starts on the bottom right, goes all the up, left one, all the way down, left one, and repeats.

5. Press the **<SCROLL/ENTER>** knob.

Save To Port

To save the configuration of the map settings to each port:

1. Access the [Map](#) menu.
2. Turn the **<SCROLL/ENTER>** knob to select **Save To Port** under **Port 1, Port 2, Port 3, or Port 4**.
3. Press the **<SCROLL/ENTER>** knob.

Reset

To reset all of the mapping settings for each port:

1. Access the [Map](#) menu.
2. Turn the **<SCROLL/ENTER>** knob to select **Reset**.
3. Press the **<SCROLL/ENTER>** knob.

5. TECHNICAL INFORMATION

Product Maintenance

To maintain optimum performance and minimize wear, clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

Clean this product at least twice a month. Dust build-up reduces performance and can cause overheating. This can lead to reduced life and increased mechanical wear.

To clean the product:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.



Always dry the transparent surfaces carefully after cleaning them.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight

LENGTH	WIDTH	HEIGHT	WEIGHT
19 in (483 mm)	16 in (407 mm)	1.7 in (44 mm)	7.2 lb (3.27 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Power

POWER SUPPLY TYPE	RANGE	VOLTAGE SELECTION
Switching (internal)	100 to 240 VAC, 50/60 Hz	Auto-ranging

PARAMETER	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz
Consumption	40 W	40 W	40 W
Operating Current	0.33 A	0.19 A	0.17 A

POWER I/O	U.S./WORLDWIDE	UK/EUROPE
Power input connector	Neutrik® powerCON® A	Neutrik® powerCON® A
Power Cord plug	Edison (U.S.)	Local Plug

Video

INPUT	SPECIFICATIONS	OUTPUT	PURPOSE
1 HDMI	EIA/CEA-861 standard, meeting HDMI-1.3 standard, HDCP support	4 Neutrik® etherCON®	Video Output
1 DVI-I	Digital signal, 1080p60fps, HDCP support	1 DVI-I	Preview Output
1 HD-SDI	SD/HD/3G-SDI, 480i, 576i, 720p, 1080i/p		

MAXIMUM SUPPORTED RESOLUTION	MAXIMUM SUPPORTED LEDs
1920x1080	2,621,440

Connections

INPUT	PURPOSE	OUTPUT	PURPOSE
1 USB Type B	Software Connection, Transfer Presets	1 USB Type A	Software Connection, Transfer Presets
2 Ethernet RJ45	Art-Net™ Connection		

Control

PC SOFTWARE	CONTROL PROTOCOL	ART-NET™ CHANNEL RANGE
LED Studio	LINSN	95

Thermal

MAXIMUM EXTERNAL TEMPERATURE	COOLING SYSTEM
104 °F (40 °C)	Convection

Ordering

PRODUCT NAME	ITEM NAME	ITEM CODE	UPC NUMBER
VIP Drive 43s	VIPDRIVE43S	21091190	781462215385



RETURNS

Send the product prepaid, in the original box, and with the original packing and accessories. Chauvet will not issue call tags.

Call Chauvet and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

To submit a service request online, go to www.chauvetprofessional.com/service-request.

Clearly label the package with an RMA number. Chauvet will refuse any product returned without an RMA number.



Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.

Once you have the RMA number, provide the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.



Chauvet reserves the right to use its own discretion to repair or replace returned product(s).

CONTACT US

World Headquarters	
General Information	Technical Support
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EUROPE	
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	Website www.chauvet.com.mx

Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., United Kingdom, Ireland, Mexico or Benelux, contact the dealer of record.