







About This Guide

The VIP Drive 10-5 Nova Quick Reference Guide (QRG) has basic product information such as connection and menu options. Download the User Manual from www.chauvetvideo.com for more details.

Disclaimer

The information and specifications contained in this QRG are subject to change without notice.

LIMITED WARRANTY

FOR WARRANTY REGISTRATION AND COMPLETE TERMS AND CONDITIONS PLEASE VISIT OUR WEBSITE. For Customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For Customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.

Chauvet warrants that this product shall be free from defects in material and workmanship under normal use, for the period specified in, and subject to the exclusions and limitations set forth in the full limited warranty on our website. This warranty extends only to the original purchaser of the product and is not transferable. To exercise rights under this warranty, you must provide proof of purchase in the form of an original sales receipt from an authorized dealer that shows the product name and date of purchase. THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES. This warranty gives you specific legal rights. You may also have other rights that vary from state to state and country to country. This warranty is valid only in the United States, United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, Germany, and Mexico. For warranty terms in other countries, please consult your local distributor.

Safety Notes

These Safety Notes include important information about installation, use, and maintenance.

- DO NOT open this product. It contains no user-serviceable parts.
- 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.
- 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.
- CAUTION: This product's housing may get hot when operating.
- DO NOT leave any flammable material within 50 cm of this product while operating or connected to power.
- USE a safety cable when mounting this product overhead.
- DO NOT operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it. (IP20)
- DO NOT operate this product if the housing or cables appear damaged.
- DO NOT connect this product to a dimmer or rheostat.
- ONLY connect this product to a grounded and protected circuit.
- ONLY use the hanging/mounting bracket or the handles to carry this product.
- In the event of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.

FCC Compliance

This device complies with Part 15 Part B of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Contact

Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact your distributor to request support or return a product. Refer to <u>Contact Us</u> at the end of this QRG for contact information.

What is Included

- VIP Drive 10-5 Nova
- IEC power cord
- USB cable
- DVI signal cable

- HDMI signal cable
- Cat5e ethernet 3 ft jumper cable
- Quick Reference Guide



AC Power

This product has an auto-ranging power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz. **AC Plug**

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow/Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green



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.

Mounting

The VIP Drive 10-5 Nova fits on a standard 19-inch rack, or it can be placed on its rubber feet on a flat level surface. **Product Front Overview**



Control Panel Description

#	1	lame	Function					
1	<men< th=""><th>IU> Knob</th><th colspan="4">Rotate to navigate upwards or downwards through the menu list, and increase or decrease a selected numeric value. Push to enable the currently displayed menu option or set the currently selected value into the selected function.</th></men<>	IU> Knob	Rotate to navigate upwards or downwards through the menu list, and increase or decrease a selected numeric value. Push to enable the currently displayed menu option or set the currently selected value into the selected function.					
2	<	ESC>	Exits the current menu or function					
		<main></main>	Accesses the layer menus (Main, PIP1, and PIP2) and displays the layer status.					
		<pip1></pip1>	 On (blue light) – Layer is opened. Flashing (blue light) – Layer is being edited. 					
3	CONTROL	<pip2></pip2>	• On (white light) – Láyer is closed.					
	buttone	<scale></scale>	 Fills the entire screen with the lowest-priority layer: On (blue light) – Full-screen scaling activated. On (white light) – Full-screen scaling deactivated. 					
		<hdmi 1=""></hdmi>						
		<hdmi 2=""></hdmi>						
		<dvi 1="" 3=""></dvi>	Switches the layer input source (or enters the corresponding number) and displays the					
4	INPUTS	<dvi 2="" 4=""></dvi>	status of the input source:					
-	buttons	<sdi 6=""></sdi>	 Flashing (blue light) – Input source used by the layer 					
		<opt 1-1="" 7=""></opt>	On (white light) – Input source not in use or not normal					
		<opt 1-2="" 8=""></opt>						
		<mosaic 9=""></mosaic>						
		<preset 5=""></preset>	Navigates to the Preset Settings menu or enters the number 5					
5	FUNCTION	<test></test>	Navigates to the Test Pattern menu					
5	buttons	<freeze 0=""></freeze>	Freezes video output or enters the number 0					
		<fn></fn>	Customizable function					







Rear Panel Description

#	Name	Function				
1	ETHERNET	RJ45 port for connecting to a personal computer				
2	GENLOCK IN	Locking BNC connectors for signal synchronization of devices with an external video				
2	GENLOCK LOOP	switcher or clock generator				
3	3G-SDI IN	3G-SDI video port supporting deinterlacing processing but not input resolution or bit depth settings				
	3G-SDI LOOP	3G-SDI video loop output port				
4	OUTPUT 1–10	RJ45 ports for output to LED video products. Ports 1 and 2 have audio output support for use with a multifunction card to parse audio.				
	USB (Type A)	USB type A output port for cascading to other devices				
5	USB (Type B)	ISB type B input port for cascading from other devices or connecting to a personal omputer				
6	HDMI 1.4 1 IN	HDMI video input port supporting interlaced signal inputs. Supports mosaic of 2 HDMI 1.4 inputs.				
	HDMI 1.4 1 LOOP	HDMI 1.4 video loop output port				
7	HDMI 1.4 2	HDMI video input port supporting interlaced signal inputs. Supports mosaic of 2 HDMI 1.4 inputs.				
8	DVI (HDMI 1.4) 1 IN	DVI video input port supporting interlaced signal inputs. Supports mosaic of 2 HDMI 1.4 inputs.				
	DVI (HDMI 1.4) 1 LOOP	DVI video loop output port				
9	DVI (HDMI 1.4) 2	DVI video input port supporting interlaced signal inputs. Supports mosaic of 2 HDMI 1.4 inputs.				
10	OPT 1-1	SFP ports (master and backup) for sending/receiving fiber optic data at distance via SFP				
10	OPT 1-2	modules				
11	HDMI 1.3	HDMI 1.3 video output port for monitor				



Menu Map

Refer to the VIP Drive 10-5 Nova product page on <u>www.chauvetvideo.com</u> for the latest menu map.

Main Level	Programming Levels				Description
Screen Brightness		0–1	00%		Controls total output level
		Cabinet Row Qty	1-0	64*	Sets number of rows in video assembly. *Range based on Column Qty and connected products.
		Cabinet Column Qty	1-4	80*	Sets number of columns in video assembly. *Range based on Row Qty and connected products.
	Quick Configuration	Port1 Cabinet Qty	1*–	40*	Sets number of video products connected to Output Port 1. *Range varies by panel used, from one tenth of total connected products to 40*.
		Data Flow (Front View)			Sets start point and path for data flow in video product assembly
	Send RC	FGx Files	No Files		Sends RCFGx files to the receiving cards of the connected assembly
	Save to RV Card		No Yes		Permanently saves uploaded firmware to connected products
		Advanced Configuration	No		Accesses the Advanced Configuration
Screen Configuration			Yes		menu
Comgalation			Status	Off On	Enables/disables separate configuration for each port
			Ethernet Port	1–10	Selects the port to configure
			Cabinet Row Qty	1–40	Sets number of rows from the selected port
			Cabinet Column Qty	1–40	Sets number of columns from the selected port
	Mara Cattinga		Horizontal Offset	0–10112	Sets horizontal offset for the selected port. *Range based on Column Qty.
	more Settings		Vertical Offset	0–8064	Sets vertical offset for the selected port. *Range based on Row Qty.
			Data Flow (Front View	邰궏 댴똬댴 阳Ċ阳	Sets start point and path for data flow from the selected port
			Apply		Applies the selected configuration
			Re	set	Resets the advanced configuration
		Mapping	0	ff	Enables/disables mapping function
			On		



Main Level	Programming Levels			Description	
			Gamma	1.0-4.0	Sets the Gamma value
				Standard	
			Tomporatura	Cool	Sets the color temperature mode of
			remperature	Warm	the output
		LED Screen Color		Custom	-
			R		
			G	000–255	Sets the custom color temperature values
			В		
			Re	set	Resets the screen color settings
			23.	98	
			2	4	-
			2	5	-
Screen Settings	More Settings		29	97	-
(cont.)	(cont.)		3	0	-
			47.	95	
			48		
		Output Frame Rate	50		
			59.94		Selects preset output frame rate
			60		
			71.93		
			72		
			75		
			85		
			100		
			119.88		
			120		
		Status	0	n	Activates/deactivates the selected
			Off		
			HD	MI1	4
			HD	WI2 (14	-
			D	/11	
	Main Layer	Input Source			Sets the input source for the selected
Layer Settings	PIP1				-
	PIP2			1-1 [1_2	4
			MOG		-
			Full S	creen	Scales the layer to the entire
		Scaling Mode	Pixel t	o Pixel	Scales the layer 1:1
					Scales the layer manually
			Custom		coulds the layer manually



Main Level	Programming Levels		Description		
		H Width	64–3	2768	Sets the layer width
		V Height	64–3	2768	Sets the layer height
		Initial X	-32768	-32768	Sets the layer's horizontal offset
	Main Laver	Initial Y	-32768	-32768	Sets the layer's vertical offset
	(cont.)	Priority	1-	-3	Sets the layer's priority level
Layer Settings (cont.)	PIP1 (cont.)		Status	On Off	Activates/deactivates the cropping function
	PIP2		H Width	64–32768	Sets the layer's crop width
	(cont.)	Input Crop	V Height	64–32768	Sets the layer's crop height
			Initial X	-32768–32768	Sets the horizontal crop offset
			Initial Y	-32768-32768	Sets the vertical crop offset
		Opacity	0–1	00%	Sets the layer's transparency
			Mada	Standard	Uses standard resolution
	HDMI1 HDMI2		Mode	Custom	Allows a custom resolution
				1024 x 768	Standard EDID resolution. Available frame rates (Hz): 48, 50 , 59.94 , 60 , 75 , 85
				1280 x 720	Available frame rates (Hz): 23.98 , 24 , 25 , 29.97 , 30 , 48 , 50 , 59.94 , 60
				1280 x 1024	Available frame rates (Hz): 48 , 50 , 59.94 , 60 , 75 , 85
				1366 x 768	Available frame rates (Hz): 50 , 59.94 , 60
				1440 x 900	Available frame rates (Hz): 60, 75, 85
				1600 x 1200	Available frame rates (Hz): 48 , 50 , 59.94 , 60
		EDID		1680 x 1050	Available frame rates (Hz): 60
Input Settings	DVI1	(Extended Display ID)	Resolution	1920 x 1080	Available frame rates (Hz): 23.98 , 24 , 25 , 29.97 , 30 , 48 , 50 , 59.94 , 60
	DVI2		(Otandard)	1920 x 1200	Available frame rates (Hz): 50 , 59.94 , 60
				1920 x 2160	Available frame rates (Hz): 23.98 , 24 , 25 , 29.97 , 30 , 48 , 50 , 59.94 , 60
				2048 x 1080	Available frame rates (Hz): 30 , 48 , 50 , 59.94 , 60
				2048 x 1152	Available frame rates (Hz): 30 , 60
				2560 x 1080	Available frame rates (Hz): 50 , 59.94 , 60
				2560 x 1600	Available frame rates (Hz): 50 , 59.94 , 60
				3840 x 1080	Available frame rates (Hz): 30 , 50 , 59.94 , 60
				3840 x 2160	Available frame rates (Hz): 30



Main Level		Programming Levels			Description
				23.98	
			Frame Rate	24	_
				25	-
				29.97	
				30	
				48	based on selected resolution.
			(Standard)	50	
				59.94	
				60	
				75	
				85	
			Width (Custom)	800–4092	Custom EDID resolution width. Range depends on height.
		FDID	Height (Custom)	600–3981	Custom EDID resolution height. Range depends on width.
		(Extended		23.98	
HDMI1 (cont.)		Display ID, cont.)	Frame Rate (Hz) (Custom)	24	
	(cont.)			25	_
				29.97	
Input Settings	(cont.)			30	Custom EDID frame rate. Availability
(cont.)	DVI1			47.95	based on selected resolution.
	(cont.)			48	
	DVI2			50	
	(cont.)			59.94	
				60	
				72	
			Frame Rate	75	Custom EDID frame rate Availability
			(Custom,	85	_based on selected resolution.
			cont.)	100	
				120	
			Ар	ply	Applies selected EDID settings
			Brightness		Adjusts the input brightness
			Contrast	0–100	Adjusts the input contrast
		Input Color	Saturation		Adjusts the input saturation
			Hue	-180–180	Adjusts the input hue
			Re	set	Resets the input color settings
		Color/Sample	RGB	4:4:4	Displays color space and sample rate of the input source
		Limited to Full	On Off		Activates/deactivates color range conversion from RGB Limited to RGB Full



Main Level	Programming Levels			Description	
			Brightness		Adjusts the input brightness
			Contrast	0–100	Adjusts the input contrast
		Input Color	Saturation		Adjusts the input saturation
	SDI		Hue	-180–180	Adjusts the input hue
			Re	set	Resets the input color settings
		Color/Sample	YCbC	r 4:2:2	Displays color space and sample rate of the input source
		Layout			Selects the mosaic layout orientation
Input Settings		Width	64–2	2048	Sets the width of the mosaic
(cont.)		Height	64–2	2048	Sets the height of the mosaic
				HDMI1	Selects HDMI mosaic and top or left
				HDMI2	input
	MOSAIC	Total Resolution		DVI1	Selects DVI mosaic and top or left
		X		DVI2	Input
				OPT1-1	Selects optic mosaic and top or left
				OPT1-2	input
		Apply		Applies the selected mosaic settings	
			Reset		Resets the mosaic settings to factory default
	Preset 1–10		Sa	ve	Saves the current settings to the selected preset
Preset			Load		Loads saved preset settings
Settings			Clear		Clears the selected preset
			Сору То		Copies the selected preset to another preset slot
	Sta	otue	On		Activates/deactivates image mosaic
	018	itus	Off		function
-	Total H	l Pixels	64–32768		Sets the total height in pixels
	Total V	/ Pixels	64–3	2768	Sets the total width in pixels
	Load Ar	ea Width	64–	640	Sets the output width of this VIP Drive 10-5 Nova in pixels
Image Mosaic	Load Are	ea Height	64–	640	Sets the output height of this VIP Drive 10-5 Nova in pixels
	Load Are	a Initial X	0-32	2668	Sets the horizontal offset of this product's output
	Load Are	a Initial Y	0–32	2668	Sets the vertical offset of this product's output
	Reset				Resets the image mosaic settings to factory default



Main Level		Programm	Description	
		Nor	Video playback mode	
		Free	eze	Freezes on the current frame
		FT	В	Fades the output To Black
Display Control		Pure Color		Tests the connected video product assembly with solid colors
	Test Pattern	Gradient		Tests the connected video product assembly with gradient effects
		Grid		Tests the connected video product assembly with grid line effects
		Brightness	1–4	Sets the brightness of the test
		Spacing	1–8	Sets grid line spacing
		Speed	1–4	Sets grid line speed
	Main Lav	vor Trans	Fade	Fade or Cut between main layer input
			Cut	sources
	Trans Duration (s)		0.5–2.0	Sets the duration of transition effects
	FTB Dur	ation (s)	0.0–2.0	Sets the duration of Fade To Black
	Dovice Backup		Primary	Sets product as the primary device
	Device	Dackup	Backup	Sets product as the backup device
		Status	On	Activates/deactivates input backup
		Otatao	Off	function
		HDMI1 ↔	N/A	
Advanced			HDMI2	Selects backup input source for each
Settings	Input Backup	DVI1 ↔	N/A	input connector
			DVI2	
		$MOSAIC(H) \leftrightarrow$	N/A MOSAIC(D)	Backs up mosaic HDMI source with a mosaic DVI source
			Reset	Resets the input backup settings to factory default



Main Level	Programming Levels			Description
		Statua	On	Enables/disables synchronization of
		Status	Off	backup
			Genlock	
			HDMI1	-
	Synchronization		HDMI2	
	eynem en <u>a</u> uten	Sourco	DVI1	Selects the sync source
		Source	DVI2	Selects the sync source
			SDI	
			OPT1-1	
			OPT1-2	
		Mode	Monitor	Selects monitor signal output
		mode	Video Output	Selects video signal output
			1024 x 768	Monitor resolution. Available frame rates (Hz): 48 , 50 , 59.94 , 60 , 75 , 85
	HDMI Output	Resolution	1280 x 720	Available frame rates (Hz): 23.98 , 24 , 25 , 29.97 , 30 , 48 , 50 , 59.94 , 60
			1280 x 1024	Available frame rates (Hz): 48 , 50 , 59.94 , 60 , 75 , 85
Advanced Sottings			1366 x 768	Available frame rates (Hz): 50 , 59.94 , 60
(cont.)			1440 x 900	Available frame rates (Hz): 60 , 75 , 85
			1600 x 1200	Available frame rates (Hz): 48 , 50 , 59.94 , 60
			1680 x 1050	Available frame rate (Hz): 60
			1920 x 1080	Available frame rates (Hz): 23.98 , 24 , 25 , 29.97 , 30 , 48 , 50 , 59.94 , 60
			1920 x 1200	Available frame rates (Hz): 50 , 59.94 , 60
			23.98	
			24	
			25	
			29.97	
			30	
		(Hz)	48	on selected resolution.
			50	
			59.94]
			60]
			75	
			85	
		Apply		Applies the selected HDMI output settings



Main Level		Programming Levels			Description
				Off	Turns off the audio
			Output	Main Layer	
	Αι	ıdio	Output	PIP1	Plays the audio from the selected
				PIP2	
			Volume	0–100	Sets the audio volume
	Innut		0	n	Enables/disables transmission and
-	input	NDCP	0	ff	content
		atency	0	n	Enables low latency function
	Low Latency		Off		Disables low latency function
		Status	On		Activates 3D mode
Advanced		Olucio	Off		Deactivates 3D mode
Settings		3D Format	Side-by-Side		Selects the format of the video source
(cont.)			Top-and-Bottom		
			Frame Sequential		
	3D	Eve Priority	Left		Selects the eve priority
		Lyernonty	Right		
			Right Eye Start	0–8192	Sets the right eye offset
		More Settings	Signal Delay	0–20000	Sets the 3D signal delay timer
		more octango	Third-Party	Off	Disables third-party emitter
			Emitter	On	Enables third-party emitter
	OPT 2 Mode		Bac	kup	Enables use of OPT 2 port as backup output port
			Сору		Copies the data flow of the connected fiber converter



Main Level		Programming Levels			Description
			Synchro	onization	<fn> accesses the Synchronization menu</fn>
	F	FN		Output	<fn> accesses the HDMI Output menu</fn>
			F	ГВ	<fn> toggles Fade To Black</fn>
	Return to	Home (s)	30–3	3600	Sets Home Screen timeout
			No		Runs a diagnostic to test all product
			Yes		functions and sensors
		F_VE	RSION		
		F_CO	NNECT		
		F_VC	CINT	(V)	
		F_VC	CAUX	(V)	
		F_VCC	BRAM	(V)	
		F_T	EMP	(C)	
		F_D_CLK_ST			
		F_DISP_CLK		(MHz)	
		F_M_C	LK_ST		
System		F_MONT_CLK		(MHz)	
Settings		F_DDR			
		F_MMCM_LK			
	Diagnostics	F_GTX_LK_ST0			-
		F_GTX_LK_FRE0		(MHz)	Displays current diagnostic data
		F_GTX_LK_ST1			-
		F_GTX_LK_FRE1		(MHz)	_
		A_MEI	M_PER	(%)	_
		A_CPI	J_PER	(%)	_
		A_EMN	IC_PER	(%)	
		M_VE	RSION		
		S_VEI	RSION		
		H_VEI	RSION		_
		H_TEN	AP_BD	(C)	_
		H_VC	C_BD	(V)	_
		H_TEST			4
		S0_T	EMP	(C)	4
		S1_T	EMP	(C)	
	About	Firmware	e Version		Displays the current firmware version



Main Level	Programming Levels			Description
Factory Reset	Reset (Save IP)		No	Resets the settings (except communication settings) to factory defaults
			Yes	
	Partial Reset		No	Resets the settings (except for communication, FN, language settings, imported files, and device name) to factory default
			Yes	
	Reset All		No	Resets all settings to factory default
			Yes	
Communication	Mode	LAN Preferred		Sets Ethernet connection as priority
			USB Preferred	Sets USB connection as priority
	Network	Mode	Automatic	Assigns IP address to the product automatically
			Manual	Sets the IP address, gateway, and subnet mask manually
		IP Address	'	Displays/sets the product's IP address
		Subnet Mask		Displays/sets the product's subnet mask
		Gateway	'	Displays/sets the product's gateway
		Apply		Applies network settings
		Reset		Resets network settings
Working Mode	Video Controller			Sets the device as the main control for all video settings
	Fiber Converter			Sets the device to process fiber optic video input to Ethernet output
		ВуР	Deactivates video processing functions	
Language	English			Sets display language to English
	中文			Sets display language to Chinese



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

