

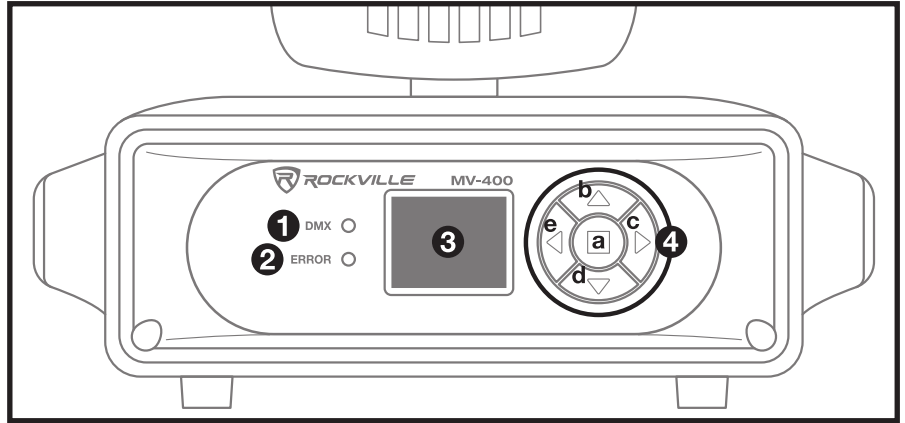


MV-400 DMX Guide

Thank you for purchasing this Rockville MV-400. Should you need assistance, please call our technical help line at 1-646-758-0144, 24 hours a day/7 days a week. For how-to videos and other helpful information, scan the QR code or visit rockvillesupport.com/mv-400.

Functions

1. DMX LED: Solid LED indicates slave/DMX unit's (or units') connection status.
2. Error LED: Will light when the unit encounters a communication or motor error.
3. LCD screen
4. Control Keys
 - a. OK: Enter a menu item and/or confirm selection
 - b. UP: Scroll upwards through menu options and/or corresponding parameters.
 - c. FORWARD: Scroll forward through the menu structure.
 - d. DOWN: Scroll down through menu options and/or corresponding parameters.
 - e. RETURN: Press to enter the main menu.



Settings

After powering on, press the OK key to enter the main menu (the system automatically exits the menu screens after 50 secs of inactivity in the outside menu and 1 min, 20 secs in the main menu). The main menu contains six options (see the Main Menu Function Table for details). Use the Up/Down keys to scroll through the menu options. Press the OK key to enter a menu and modify its function parameters. Once adjustments are completed, press OK to save changes. Settings are stored to the system memory and retained after the unit is powered off.

Main Menu	Sub Menu	Submenu Function
1. SETUP (System Settings)	1. DMX Address	Modify the DMX address code up or down (range = 001 – 512), confirm key to save, default 001.
	2. Encoder	Modify the encoder on/off, default on.
	3. Pan Reverse	Modify the X reverse polarity on/off, default off.
	4. Tilt Reverse	Modify the Y reverse polarity on/off, default off.
	5. No Signal	Clear/Hold. If set to Hold and the DMX signal is lost, the light will remain at its most recent setting. If set to Clear, it will default to blackout.
2. MODE (Operation Mode)	1. Run Mode	Select the operational mode DMX/sound control/Auto, default DMX.
	2. Channel	Select the channel mode 11/19/44/115.
	3. Auto	Select Auto mode 1 – 10 by cycling through options with UP and DOWN keys, and press the OK key to save.
	4. Sound	Select the Auto mode type that is utilized by the Sound Activated mode, options 1 – 10 by cycling through with UP and DOWN keys, and press the OK key to save.
3. MANUAL	1. X	Modify the X motor operation parameter value up or down (adjustable range 000-255), OK key to save, default 000.
	2. X Fine	Modify the X motor fine-tuning parameter value up or down (adjustable range 000-255), OK key to save, default 000.
	3. Y	Modify the Y motor operation parameter value up or down (adjustable range 000-255), press the OK key to save, the default is 000.
	4. Y Fine	Modify the Y motor fine-tuning parameter value upward or downward (adjustable range 000-255), press the OK key to save, the default is 000.
	5. XY Speed	Modify the XY motor operation speed parameter value upward or downward (adjustable range 000-255), press the confirmation key to save, the default is 000.
	6. Focus	Modify the focus motor operation parameter value upward or downward (adjustable range 000-255), press the confirmation key to save, the default is 000.
	7. Dimmer	Modify the dimming parameter value upward or downward (adjustable range 000-255), press the confirmation key to save, the default is 000.
	8. Strobe	Modify the strobe parameter value upward or downward (adjustable range 000-255), press the confirmation key to save, the default is 000.
	9. Red	Modify the current red value upward or downward (adjustable range 000-255), press the confirmation key to save, the default is 000.

Settings (continued)

Main Menu	Sub Menu	Submenu Function
3. HAND (Manual Control)	10. Green	Modify the corresponding sub menu item's current value upward or downward (adjustable range 000-255), press the confirmation key to save, the default is 000.
	11. Blue	
	12. White	
	13. Color	
	14. Mode	
	15. Speed	
	16. Direction	
	17. Background Color	
	18. Background Color	
	19. Reset	The whole machine will be reset if the parameter value is between 150-255. The console parameter value must be pulled below 10 first and then pushed to 150-255 to be effective. Parameter values between 000-149 are non-functional for RESET purposes.
4. SHOW (Display Settings)	1. Language Selection	Press up or down to select Chinese/EN (English), press the OK key to save.
	2. Reverse	Press up or down to turn off/on the inverted display setting, press the OK key to save, the default is off.
	3. Backlight	Press up or down to turn off/on the screen saver settings, press the confirmation key to save, and it is closed by default.
	4. DMX Show	Press up or down to select the operation mode of the DMX Indicator LED, press the OK key to save, and it is closed by default.
	5. Backlight	Press up or down to turn off/on the backlight setting, press the confirmation key to save, the default is off.
	6. Version	Currently loaded firmware version
5. INFO (System Info)	Code Setting	N/A
	Time	Set running time of fixture
	Hall	N/A
6. PLANT (Factory Calibration Menu) FOR MANUFACTURER USE ONLY PLEASE NOTE: The screen will display "Please enter password!" Use the Up/Down keys to enter 138, then press the confirm button to enter the factory settings.	1. Pan	Modify the parameters up or down (range 000-255), confirm key to save, default 128.
	2. Tilt	
	3. Focus	
	4. Focus Distance	
	5. LED Direction	Modify the parameters up or down (range 000-007), confirm key to save, default 000.
	6. Red	Modify the lamp current (032-255) up or down, confirm key to save, default 220.
	7. Green	
	8. Blue	
	9. White	Modify the parameter up or down (range 000-025), press the confirmation key to save, the default is 001.
	10. LED Num	
	11. Current	Select 000/255 up or down, press the confirmation key to save, the default is 255.
	12. Logo	Select 000/001 up or down, press the confirmation key to save, the default is 000.
	13. Temperature	Modify the temperature parameter up or down (range 104-0158), press the confirmation key to save, the default is 140.
	14. Temperature - Fan	Select turn off/on fan control up or down, press the confirmation key to save, the default is off.
	15. LED	Select LEDA/LEDB up or down, press the confirmation key to save, the default is LEDA

Master/Slave Controls

When two or more identical lamps are connected using DMX three-core signal cables, each lamp may be assigned an address code ranging from 001 to 512. One lamp must be designated as the host, while all others function as slaves. The display screens of all slave units will remain steady (without flickering). When the host is used to adjust effects such as gradient, pulse, jump, sound control, or automatic (self-propelled) mode, all slave units will synchronize with the host and reproduce the same effects.

Important Notes:

1. Only one host may be assigned within a group of lamps. If multiple hosts are configured, the lamps will flicker randomly and lose synchronization.
2. For proper operation when the DMX512 console is turned off, all lamps must be configured in host/slave mode.

DMX Control

After setting all the lamp address codes, connect the lamps in parallel to the DMX512 console using DMX three-core signal cables. When the address code stops flashing, it indicates that the DMX512 console has successfully transmitted the signal to the lamps. You can then use the DMX512 console to control the corresponding functions according to the channel instructions.

11-Channel Mode

Channel	Value	Function
1	0 – 255	X
2	0 – 255	Y
3	0 – 255	XY Motor Movement Speed
4	0 – 255	Focus Control
5	0 – 255	Master dimmer
6	0 – 255	Strobe
7	0 – 255	R
8	0 – 255	G
9	0 – 255	B
10	0 – 255	W
11	0 – 199	N/A
	200 – 209	Reset (5-second hold to trigger)

19-Channel Mode

Channel	Value	Function
1	0 – 255	X
2	0 – 255	X Fine Adjustment
3	0 – 255	Y
4	0 – 255	Y Fine Adjustment
5	0 – 255	XY Motor Movement Speed
6	0 – 255	Focus Control
7	0 – 255	Master dimmer
8	0 – 255	Strobe
9	0 – 255	R
10	0 – 255	G
11	0 – 255	B
12	0 – 255	W
13	0 – 255	Preset Chase Color select
14	0 – 255	Preset Chase Mode select
15	0 – 255	Preset Chase Speed
16	0 – 255	Preset Chase Direction
17	0 – 255	Preset Chase Secondary Color Select
18	0 – 255	Preset Chase Secondary Color Dimmer
19	0 – 199	N/A
	200 – 209	Reset (5-second hold to trigger)

44-Channel Mode

Channel	Value	Function
1	0 – 255	X
2	0 – 255	X Fine Adjustment
3	0 – 255	Y
4	0 – 255	Y Fine Adjustment
5	0 – 255	XY Motor Movement Speed
6	0 – 255	Focus Control
7	0 – 255	Master dimmer

44-Channel Mode (continued)

Channel	Value	Function
8	0 – 255	Strobe
9	0 – 255	R
10	0 – 255	G
11	0 – 255	B
12	0 – 255	W
13	0 – 255	1 st LED Light Dimmer
14	0 – 255	2 nd LED Light Dimmer
15	0 – 255	3 rd LED Light Dimmer
16	0 – 255	4 th LED Light Dimmer
17	0 – 255	5 th LED Light Dimmer
18	0 – 255	6 th LED Light Dimmer
19	0 – 255	7 th LED Light Dimmer
20	0 – 255	8 th LED Light Dimmer
21	0 – 255	9 th LED Light Dimmer
22	0 – 255	10 th LED Light Dimmer
23	0 – 255	11 th LED Light Dimmer
24	0 – 255	12 th LED Light Dimmer
25	0 – 255	13 th LED Light Dimmer
26	0 – 255	14 th LED Light Dimmer
27	0 – 255	15 th LED Light Dimmer
28	0 – 255	16 th LED Light Dimmer
29	0 – 255	17 th LED Light Dimmer
30	0 – 255	18 th LED Light Dimmer
31	0 – 255	19 th LED Light Dimmer
32	0 – 255	20 th LED Light Dimmer
33	0 – 255	21 st LED Light Dimmer
34	0 – 255	22 nd LED Light Dimmer
35	0 – 255	23 rd LED Light Dimmer
36	0 – 255	24 th LED Light Dimmer
37	0 – 255	25 th LED Light Dimmer
38	0 – 255	Preset Chase Color Select
39	0 – 255	Preset Chase Mode Select
40	0 – 255	Preset Chase Speed
41	0 – 255	Preset Chase Direction
42	0 – 255	Preset Chase Secondary Color Select
43	0 – 255	Preset Chase Secondary Color Dimmer
44	0 – 199	N/A
	200 – 209	Reset (5-second hold to trigger)

115-Channel Mode

Channel	Value	Function
1	0 – 255	X
2	0 – 255	X Fine Adjustment
3	0 – 255	Y
4	0 – 255	Y Fine Adjustment
5	0 – 255	XY Motor Movement Speed
6	0 – 255	Focus Control
7	0 – 255	Master dimmer
8	0 – 255	Strobe
9	0 – 255	R1
10	0 – 255	G1
11	0 – 255	B1
12	0 – 255	W1
...
105	0 – 255	R25
106	0 – 255	G25
107	0 – 255	B25
108	0 – 255	W25

Continued R/G/B/W per Single Diode (denoted by # following color code (example: R10 = Red color dimmer for Diode 10))

115-Channel Mode (continued)

Channel	Value	Function
109	0 – 255	Preset Chase Color Select
110	0 – 255	Preset Chase Mode Select
111	0 – 255	Preset Chase Speed
112	0 – 255	Preset Chase Direction
113	0 – 255	Preset Chase Secondary Color Select
114	0 – 255	Preset Chase Secondary Color Dimmer
115	0 – 199	N/A
	200 – 209	Reset (5-second hold to trigger)