



VENTICINQUE - LED DMX DIMMER

25 CHANNEL X 4 AMP DMX512 DECODER V1.1

Our most advanced standalone DMX
Dimmer Ever. The VentiCinque-LED DMX
Dimmer is extremely feature-rich. Built with
all the same features as our 5 channel
Cinque, our 12 channel Dodici, and our 24
channel VentiQuattro plus more. Featuring
a high current rating of 4A per channel,
smooth dimming, adjustable PWM
frequency, gamma curve, 8-bit and 16-bit
options, full manual mode, RDM control,
XLR5, XLR3 and RJ45 connections for DMX
in and out plus our Protect-A-FET
technology...













100A MAX 12V to 24V DC



12V to 24V DC 4A per Channel 1200 Watts /2400 Watts



PWM Frequency 500Hz to 35KHz



Resolution 8 Bit & 16 Bit



DMX512



Manual Mode



DMX RDM



UL Component Recognized



IP Rating IP 20



Temperature Range -20°C to + 50°C -40°F to + 122°F



Dimensions L 293.2mm 11.54 W 92.2mm 3.63 H 36mm 1.42"



25CH

Number

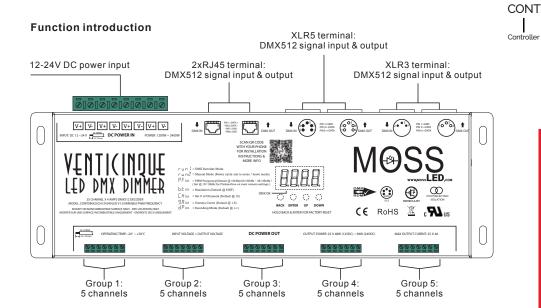
12V24V

DMX

Input Signal Weigh 992g

LED

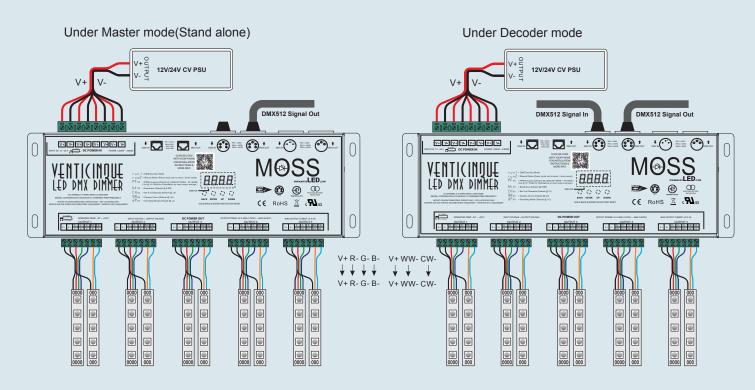
Display





DO NOT install with power applied to device.
DO NOT expose device to excessive moisture.
Indoor use only.

WIRING DIAGRAM



IF DRAWING MORE THAN 10A PER OUTPUT PLEASE USE BOTH COMMON V+ TERMINALS

OPERATION

DMX Mode (Decoder Mode)



Using the "Up/DOWN" buttons you can cycle through the following menus.

A.XXX	DMX Address 1 to 487. Default set to 001.
B ⊢ X X	Bit resolution 8bit/16bit, default set to 16bit
ЕНХХ	DMX Channel quantity. Default set to CH25
PFXX	PWM frequency 500Hz to 35KHz, default set to 25KHz
98 x x	Dimming gamma curve value, default setting is ga1.5
dP x x	Decoding mode, default set to dP1.1
	Switch between DMX Mode and Manual Mode

Manual Mode (Master Mode)



Program 1 to 31, Po1 channel 1 is on Po2 channel 2 is on etc... Manual control over channels 1 to 25 from 00 to FL Program brightness 1 to 8
Program speed 1 to 16
Switch between DMX Mode and Manual Mode

Protect-A-FET (1)

When a short circuit occurs all the outputs will stop functioning and the LED display with flash. Power cycle it (turn it off then on again) to restore normal operation.

1. Set DMX Address

To set the DMX address select menu #.XXX, press "ENTER" the display will flash Press "LIP/DOWN" to set the DMX address Press "BACK" to confirm

2. Set Channel Quantity

Select menu [H] XX, press "ENTER" the display will flash. Press "UP/DOWN" and set the DMX channel quantity. Press "BACK" to confirm. 25 Channels are set as the default and has a DMX footprint of 25 channels.

Example: DMX address is set to 001.

CH01 : DMX Footprint = 1 DMX address for all channels is 001

CH02 : DMX Footprint = 2 DMX address 001 controls output 1, 3, 6, 8, 11, 13, 16, 18, 21, 23

DMX address 002 controls output 2,4, 7, 9, 12, 14, 17, 19, 22, 24

Unused DMX channels 5, 10, 15, 20, 25

CH03 : DMX Footprint = 3 DMX address 001 controls output 1, 6, 11, 16, 21

DMX address 002 controls output 2, 7, 12, 17, 22

DMX address 003 controls output 3, 8, 13, 18, 23

Unused DMX channels 4, 5, 9, 10, 14, 15, 19, 20, 24,25

CH04 : DMX Footprint = 4 DMX address 001 controls output 1, 6, 11, 16, 21

DMX address 002 controls output 2, 7, 12, 17, 22

DMX address 003 controls output 3, 8, 13, 18, 23

DMX address 004 controls output 4, 9, 14, 19, 24

Unused DMX channels 5, 10, 15, 20, 25

CH05: DMX Footprint = 5 DMX address 001 controls output 1, 6, 11, 16, 21

DMX address 002 controls output 2, 7, 12, 17, 22

DMX address 003 controls output 3 8 13 18 23

DMX address 004 controls output 4, 9, 14, 19, 24

DMX address 005 controls output 5, 10, 25, 20, 25

3. Resolution

Select menu $b \not \in XX$, press "ENTER" the display will flash. Press "UP/DOWN' to choose 8bit or 16bit. Press "BACK" to confirm.

4. PWM Frequency

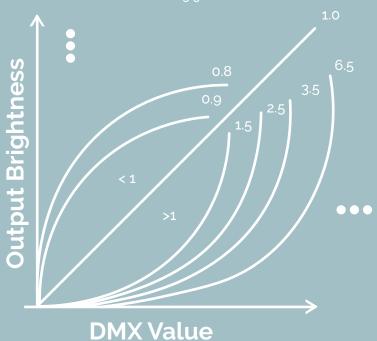
Select menu *PF* XX, press "ENTER" the display will flash. Press "UP/DOWN" to choose from 00 to 35. Press "BACK" to confirm. Default @ 10khz.

00 = 500Hz	03 = 3KHz	06 = 6KHz	09 = 9KHz	14 = 14KHz	20 = 20KHz
01 = 1KHz	04 = 4KHz	07 = 7KHz	10 = 10KHz	16 = 16KHz	25 = 25KHz

5. Gamma Curve Value

Select menu 98XX, press "ENTER" the display will flash

Press "UP/DOWN" to choose 0.1 to 9.9. Press "BACK" to confirm



*Gamma adjusts the dimming curve of the unit so you can have an extremely high resolution low end or an extremely high resolution high and

DMX Address is 001, CH03

4	DMX CHANNEL	FACTORY DEFAULT dp 1.1	TRUE 16-BIT dp 2.1	dp 4.3	dp 5.3
	1	Output 1, 6, 11, 16, 21 dim	Output 1, 6, 11, 16, 21 dim	Output 1-3, 6-8, 11-13, 16-18, 21-23 dim	Output 1-3, 6-8, 11-13, 16-18, 21-23 dim
	2	Output 2, 7, 12, 17, 22 dim	Output 1, 6, 11, 16, 21 fine dim	Output 1, 6, 11, 16, 21 dim	Output 1, 6, 11, 16, 21 dim
	3	Output 3, 8, 13, 18, 23 dim	Output 2, 7, 12, 17, 22 dim	Output 2, 7, 12, 17, 22 dim	Output 2, 7, 12, 17, 22 dim
	4		Output 2, 7, 12, 17, 22 fine dim	Output 3, 8, 13, 18, 23 fine dim	Output 3, 8, 13, 18, 23 fine dim
	5		Output 3, 8, 13, 18, 23 dim		strobe effects
	6		Output 3, 8, 13, 18, 23 fine dim		

DMX Address is 001, CH04

DMX CHANNEL	FACTORY DEFAULT dp 1.1	TRUE 16-BIT dp 2.1	dp 5.4	dp 6.4
1	Output 1, 6, 11, 16, 21 dim	Output 1, 6, 11, 16, 21 dim	Output 1-4, 6-9, 11-14, 16-19, 21-24 dim	Output 1-4, 6-9, 11-14, 16-19, 21-24 dim
2	Output 2, 7, 12, 17, 22 dim	Output 1, 6, 11, 16, 21 fine dim	Output 1, 6, 11, 16, 21 dim	Output 1, 6, 11, 16, 21 dim
3	Output 3, 8, 13, 18, 23 dim	Output 2, 7, 12, 17, 22 dim	Output 2, 7, 12, 17, 22 dim	Output 2, 7, 12, 17, 22 dim
4	Output 4, 9, 14, 19, 24 dim	Output 2, 7, 12, 17, 22 fine dim	Output 3, 8, 13, 18, 23 fine dim	Output 3, 8, 13, 18, 23 fine dim
5		Output 3, 8, 13, 18, 23 dim	Output 4, 9, 14, 19, 24 dim	Output 4, 9, 14, 19, 24 dim
6		Output 3, 8, 13, 18, 23 fine dim		strobe effects
7		Output 4, 9, 14, 19, 24 dim		
8		Output 4, 9, 14, 19, 24 fine dim		

DMX Address is 001, CH05

DMX CHANNEL	FACTORY DEFAULT dp 1.1	TRUE 16-BIT dp 2.1	dp 6.5	dp 7.5
1	Output 1, 6, 11, 16, 21 dim	Output 1, 6, 11, 16, 21 dim	Output 1-4, 6-9, 11-14, 16-19, 21-24 dim	Output 1-4, 6-9, 11-14, 16-19, 21-24 dim
2	Output 2, 7, 12, 17, 22 dim	Output 1, 6, 11, 16, 21 fine dim	Output 1, 6, 11, 16, 21 dim	Output 1, 6, 11, 16, 21 dim
3	Output 3, 8, 13, 18, 23 dim	Output 2, 7, 12, 17, 22 dim	Output 2, 7, 12, 17, 22 dim	Output 2, 7, 12, 17, 22 dim
4	Output 4, 9, 14, 19, 24 dim	Output 2, 7, 12, 17, 22 fine dim	Output 3, 8, 13, 18, 23 fine dim	Output 3, 8, 13, 18, 23 fine dim
5	Output 5, 10, 15, 20, 25 dim	Output 3, 8, 13, 18, 23 dim	Output 4, 9, 14, 19, 24 dim	Output 4, 9, 14, 19, 24 dim
6		Output 3, 8, 13, 18, 23 fine dim	Output 5, 10, 15, 20, 25 dim	Output 5, 10, 15, 20, 25 dim
7		Output 4, 9, 14, 19, 24 dim		strobe effects
8		Output 4, 9, 14, 19, 24 fine dim		
9		Output 5, 10, 15, 20, 25 dim		
10		Output 5, 10, 15, 20, 25 fine dim		

The data definitions for strobe channel are as follows:

The supported RDM PIDs are as follows:

DISC_UNIQUE_BRANCH

DMX_PERSONALITY

MODULATION_FREQUENCY

MODULATION_FREQUENCY_DESCRIPTION

Factory Default Settings

SLOT_INFO

EH 25 PF 25 BP 1.1

Restore to Factory Default Settings

until the digital display turns off, then release the keys.

6. Decoding Mode

Select menu EP XXX, press "ENTER" the display will flash.
Press "UP/DOWN" to choose the decoding mode. Press "BACK" to confirm.

DMX Address is 001, CH01

DMX CHANNEL	FACTORY DEFAULT dp 1.1	dp 2.1	dp 2.2	dp 3.1
1	All output dim	All output dim	All output dim	All output dim
2		All output fine dim	All output strobe effects	All output fine dim
3				All output strobe effects

DMX Address is 001, CH02

DMX CHANNEL	FACTORY DEFAULT dp 1.1	TRUE 16-BIT dp 2.1	dp 2.2	dp 3.2	dp 4.3
1	output 1, 3, 6, 8, 11, 13 16, 18, 21, 23 dimming	output 1, 3, 6, 8, 11, 13 16, 18, 21, 23 dimming	output 1-4, 6-9, 11-14 16-19, 21-24 dimming		
2	output 2, 4, 6, 12, 14 17, 19, 22, 24 dimming	output 1, 3, 6, 8, 11, 13 16, 18, 21, 23 fine dim	output 1+2, 3+4, 6+7, 8+9, 11+12, 13+14, 16+17, 18+19, 21+22, 23+24 color tuning	output 1, 3, 6, 8, 11, 13 16, 18, 21, 23 dimming	16, 18, 21, 23 dimming
3		output 2, 4, 6, 12, 14 17, 19, 22, 24 dimming		output 2, 4, 6, 12, 14 17, 19, 22, 24 dimming	output 2, 4, 6, 12, 14 17, 19, 22, 24 dimming
4		output 2, 4, 6, 12, 14 17, 19, 22, 24 fine dim			strobe effects

Troubleshooting the Cinque/Dodici/ VentiQuattro & VentiCinque DMX LED Dimmers

Troubleshooting guide for the VentiCinque-LED with and without Protect-A-FET. Refer to manual for more information on operation.

LED channel always ON∕no control	-MOSFET damaged, replace. Source shorted to GND.
LED channel always OFF/no control	-Check LED tape for short/wired correctly -Check internal fuse (marked as 'L' looks like a resistor) -Check power
All channels act as one.	-Setting "CHXX" should be set to CH05Reset unit by holding "Enter" & "Back" at the same time until the display flashes once.
LED display flashing	-The Protect-A-FET detected a short and has auto shut offFind and remove short. Power cycle to return to normal operation.
Not getting any output	-Check if LED display of the VentiCinque is flashing. If flashing power cycle unitCheck LED tape for short/wired correctly -All MOSFETs could be damaged, replace

IMPORTANT NOTES:

Setting in DMX Mode affects Manual Mode.

When in DMX Mode and the "run" setting is set to "run 2" then at any point when power is removed and the applied the VentiCinque will go into Manual Mode. Same if in Manual Mode and the "run" setting is set to "run 1". This may cause issues when there are more devices connected to a DMX signal.

When the VentiCinque is in Manual Mode it will send a DMX signal out! Refer to the wiring diagram in the manual.





