VENTICINQUE - LED DMX DIMMER

25 CHANNEL X 4 AMP DMX512 DECODER
V1.0

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..

FC RoHS CE PROTECT-A-FET

Input 100A MAX 12V to 24V DC	**Output** 12V to 24V DC 4A per Channel 1200 Watts /2400 Watts	**PWM Frequency** 500Hz to 35KHz

Resolution 8 Bit & 16 Bit

DMX512 5 Channel

Manual Mode
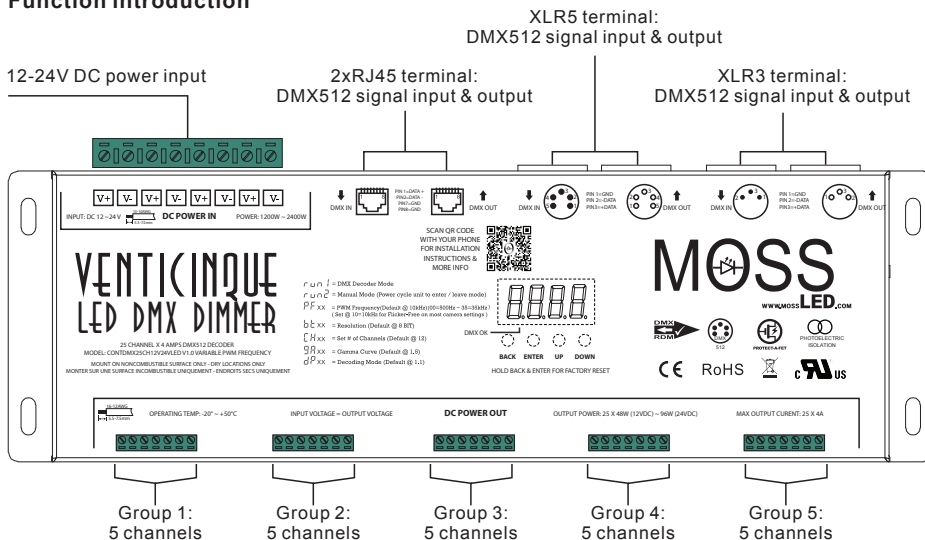
DMX RDM

UL Component Recognized

IP Rating IP 20

Temperature Range -20℃ to + 50℃ -40℉ to + 122℉

Dimensions L 294mm 11.57" W 99mm 3.90" H 38mm 1.50"
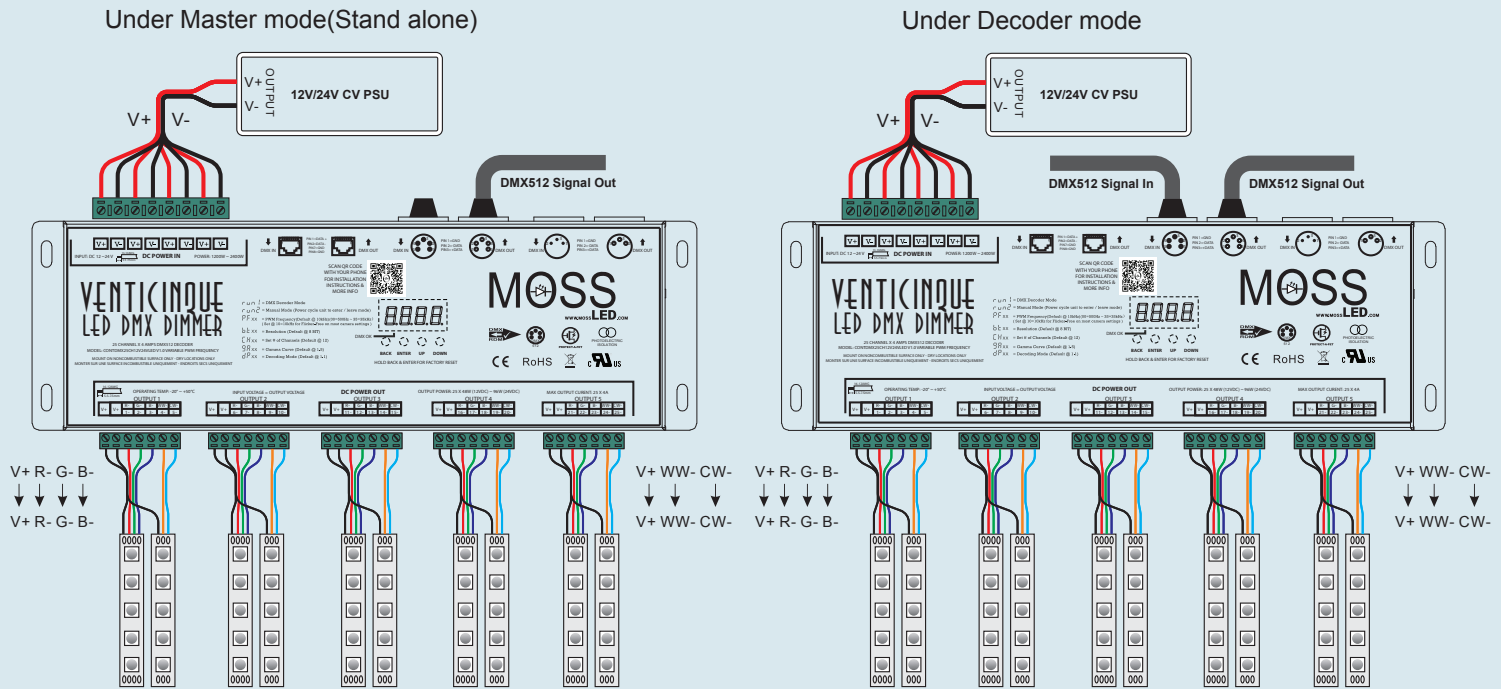
Weight 992g 35 oz

CONT	DMX	25CH	12V24V	LED
Controller	Input Signal	Number of channels	Input voltage	Display

Function introduction

12-24V DC power input

2xRJ45 terminal: DMX512 signal input & output

XLR5 terminal: DMX512 signal input & output

XLR3 terminal: DMX512 signal input & output

INPUT: DC 12 ~ 24 V   DC POWER IN   POWER: 1200W ~ 2400W

DMX IN   PIN 1=DATA + PIN 2=DATA PIN7=GND PIN8=GND   DMX OUT

DMX IN   PIN 1=GND PIN 2=DATA PIN3=+DATA   DMX OUT

DMX IN   PIN 1=GND PIN 2=DATA PIN3=+DATA   DMX OUT

SCAN QR CODE WITH YOUR PHONE FOR INSTALLATION INSTRUCTIONS & MORE INFO

VENTICINQUE
LED DMX DIMMER

25 CHANNEL X 4 AMP5 DMX512 DECODER
MODEL: CONTDMX25CH12V24VLED V1.0 VARIABLE PWM FREQUENCY
MOUNT ON NONCOMBUSTIBLE SURFACE ONLY - DRY LOCATIONS ONLY
MONTER SUR UNE SURFACE INCOMBUSTIBLE SEULEMENT - ENDROITS SECS UNIQUEMENT

run 1 = DMX Decoder Mode
run 2 = Manual Mode (Power cycle unit to enter / leave mode)
PFxx = PWM Frequency(Default @ 10kHz)(01=800Hz - 35=35kHz)
(Set @ 10=100kHz for Flicker-free on most camera settings)
btxx = Resolution (Default @ 8 BIT)
CHxx = Set # of Channels (Default @ 12)
gAxx = Gamma Curve (Default @ 1.8)
dPxx = Decoding Mode (Default @ 1.1)

DMX OK

BACK   ENTER   UP   DOWN
HOLD BACK & ENTER FOR FACTORY RESET

MOSS LED
WWW.MOSSLED.COM

DMX RDM   PROTECT-A-FET   PHOTOELECTRIC ISOLATION

CE RoHS c UL us

OPERATING TEMP: -20° ~ +50°C   INPUT VOLTAGE = OUTPUT VOLTAGE   **DC POWER OUT**   OUTPUT POWER: 25 X 48W (12VDC) ~ 96W (24VDC)   MAX OUTPUT CURENT: 25 X 4A

Group 1: 5 channels	Group 2: 5 channels	Group 3: 5 channels	Group 4: 5 channels	Group 5: 5 channels

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

Under Master mode(Stand alone)

Under Decoder mode

V+ OUTPUT V- 12V/24V CV PSU
V+   V-

V+ OUTPUT V- 12V/24V CV PSU
V+   V-

DMX512 Signal Out

DMX512 Signal In   DMX512 Signal Out

VENTICINQUE LED DMX DIMMER

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RoHS

V+ R- G- B-
V+ R- G- B-

V+ WW- CW-
V+ WW- CW-

V+ R- G- B-
V+ R- G- B-

V+ WW- CW-
V+ WW- CW-

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 507, default set to 001. The decimal after the "*A*" indicates reciving a DMX signal.
CH xx — DMX channel quantity, default set to CH05

Bt xx — Bit resolution 8bit/16bit, default set to 16bit

PF xx — PWM frequency 500Hz to 35KHz, default set to 10KHz
gA xx — Dimming gamma curve value, default set to1.5
dP xx — Decoding mode, default set to dP1.1

R N 1 — Switch between DMX Mode and Manual Mode

Protect-A-FET

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.

Manual Mode (Master Mode)

To enter Manual Mode use the "UP/DOWN" and set to "*run 1*" press "ENTER"
then with the "UP" button set to "*run 2*". Press "BACK" to confirm. Power cycle the unit.
The following menu will apear.

P.xxx — Program 1 to 31. P01 channel 1 is on P02 channel 2 is on etc...
1 xx to 5 xx — Manual control over channels 1 to 5 from 00 to FL

B xx — Program brightness 1 to 8
S xx — Program speed 1 to 16

R N 2 — Switch between DMX Mode and Manual Mode

1. Set DMX Address
To set the DMX address select menu A.XXX, press "ENTER" the display will flash.
Press "UP/DOWN"to set the DMX address. Press "BACK" to confirm.

2. Set Channel Quantity
Select menu CH 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

3. Resolution
Select menu bt 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
02 = 2KHz	05 = 5KHz	08 = 8KHz	12 = 12kHz	18 = 18KHz	35 = 35KHz

5. Gamma Curve Value
Select menu gA XX , press "ENTER" the display will flash.
Press "UP/DOWN" to choose 0.1 to 9.9. Press "BACK" to confirm.
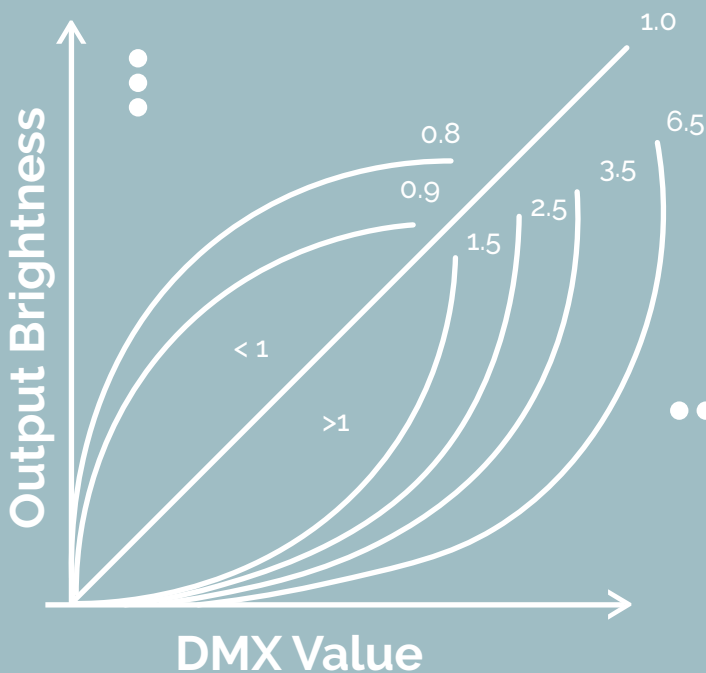
*Gamma adjusts the dimming curve of the unit so you can have an extremely high resolution low end or an extremely high resolution high end.

DMX Address is 001, CH03

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:

{0, 7}, //undefined
{8, 65},//slow strobe ->fast strobe
{66, 71},//undefined
{72, 127},//slow push fast close
{128, 133},//undefined
{134, 189},//slow close fast push
{190, 195},//undefined
{196, 250},//random strobe
{251, 255},//undefined

The supported RDM PIDs are as follows:

DISC_UNIQUE_BRANCH
DISC_MUTE
DISC_UN_MUTE
DEVICE_INFO
DMX_START_ADDRESS
IDENTIFY_DEVICE
SOFTWARE_VERSION_LABEL
DMX_PERSONALITY
DMX_PERSONALITY_DESCRIPTION
SLOT_INFO

SLOT_DESCRIPTION
MANUFACTURER_LABEL
SUPPORTED_PPARAMETERS
SUPPORTED_PARAMETERS
MODULATION_FREQUENCY
MODULATION_FREQUENCY_
DESCRIPTION CURVE
CURVE_DESCRIPTION

Restore to Factory Default Settings
Press and hold down both "Menu" & "Enter" keys
until the digital display turns off, then release the keys.
The system will reset and the digital display will turn on
again. All settings will be restored to factory default.

Factory Default Settings

A.001   CH 25   B 16
PF 10   9A 1.5   DP 1.1

6. Decoding Mode
Select menu DP 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
				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	output 1-4, 6-9, 11-14 16-19, 21-24 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	output 1, 3, 6, 8, 11, 13 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 CH05. -Reset 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 off. -Find 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 unit. -Check 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.

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FlexLED
Flexible LED Tape

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