



DODICI-LED DMX DIMMER

12 CHANNEL X 5 AMP DMX512 DECODER
V1.1 - for indoor use only

The Dodici-LED DMX Dimmer is BY FAR the most advanced standalone DMX Decoder controller unit on the market. The Dodici-LED Dimmer has all the features our film, television, and theatrical friends have been asking for. It is an extremely durable metal, rugged housing with professional-grade XLR 5-Pin In/Out and RJ45 In/Out for DMX signal. The terminal blocks used for the input have two spaces for Voltage + and two spaces for GND which allow for the huge current capability of 60 AMPS of power!



New Features in V 1.1

1. PWM Frequency adjustable via RDM
2. Gamma curve adjustable via RDM
3. Default PWM Frequency now set to 10khz.

Input
60A MAX
12V to 24V DC

Output
12V to 24V DC
5A per Channel
720 Watts /1440 Watts

PWM Frequency
500Hz to 35KHz

Resolution
8 Bit & 16 Bit

Short Circuit Protection

Manual Mode

DMX512 RDM

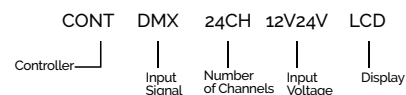
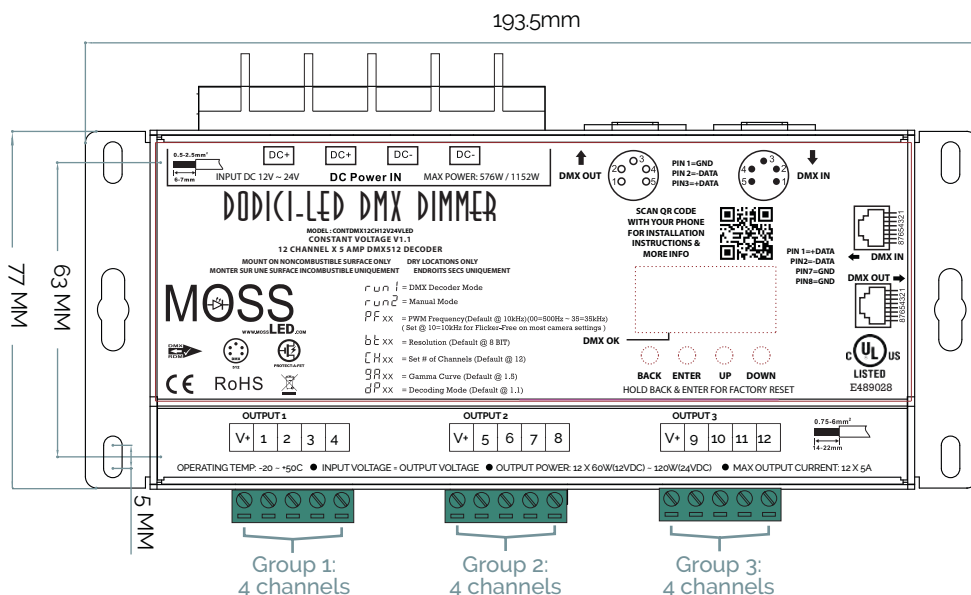
UL LISTED E489028

IP Rating IP 20

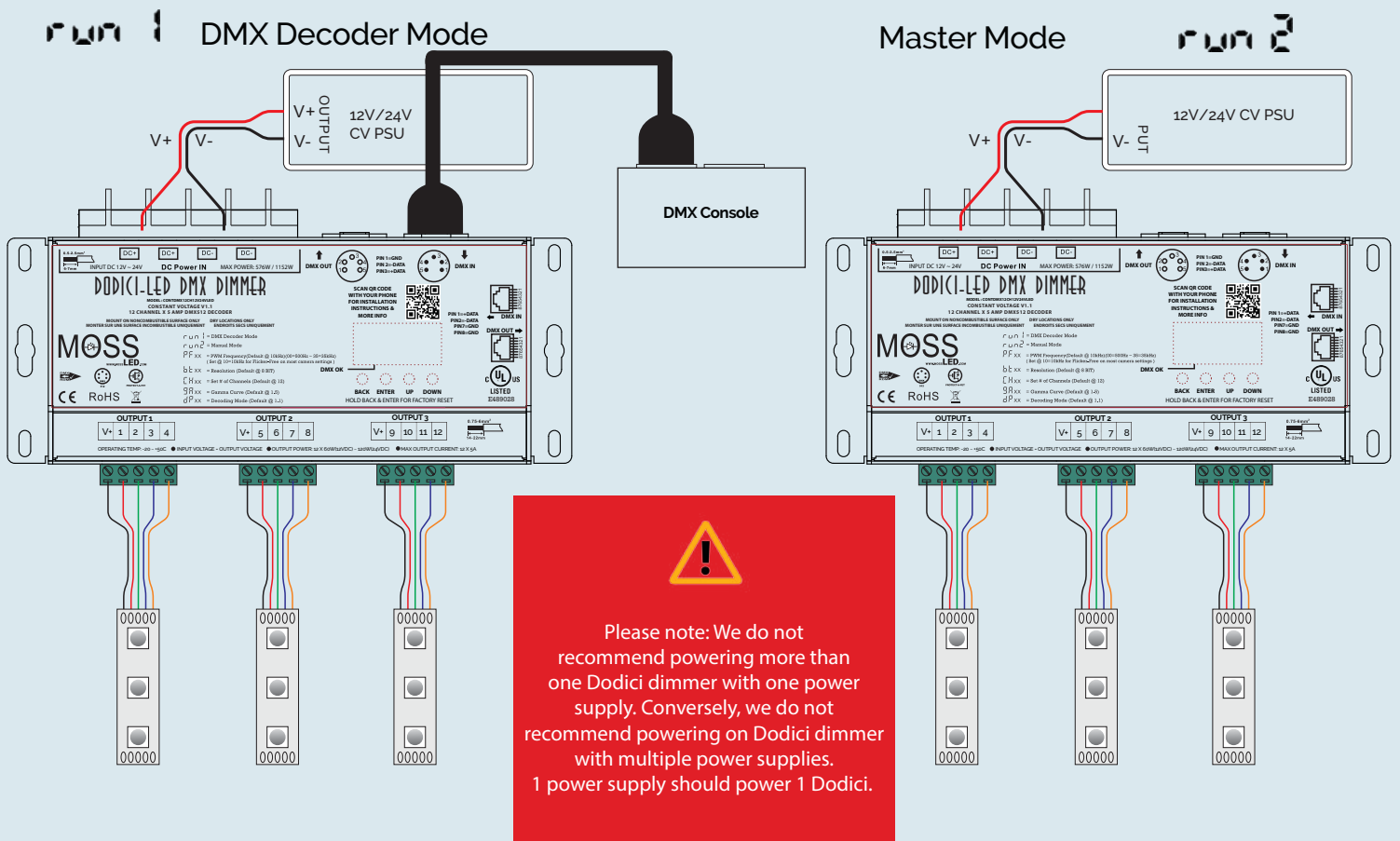
Temperature Range
-20° C to +70° C
-4° F to +158° F

Dimensions
L 195mm 7.7"
W 114mm 4.5"
H 41mm 1.65"

Weight
557g
1.229lb



WIRING DIAGRAM



OPERATION

run 1 DMX Decoding mode

run 2 Manul Mode / Standalone Mode / Master Mode

Choose run1 or run2 to confirm operating mode. run1 is standard DMX decoder mode. run2 is manual master mode. run2 allows you to manually control the output of the unit as well as output DMX signal from the unit itself to any DMX units connected via the DMX output ports. To change between run1 and run2 you no longer need to power down the unit. Simply select run1 or run2 and you will access the dmx or manual mode menus.

run 1 Menu Options: To reset to factory settings hold down Back + Enter for 5 seconds

- A.XXX** DMX Signal Indicator. If a valid DMX signal is present, a small indicator will present itself.
- A.XXX** Set the DMX address to anything between 001 and 512. To address the unit above 500 it must be set to 4 channel or 1 channel mode. ENTER -> (adjust DMX address) UP/DOWN -> BACK (new address locked in)
- 00xx** DMX channel quantity. Factory default is 12 but can also be run in 1 channel and 4 channel mode. ENTER -> (adjust channel footprint) UP/DOWN -> BACK (new channel count locked in)
- 00xx** 8bit or 16bit mode. Factory default is 16bit mode. For true 16bit mode please set dP to 2.1 ENTER -> (adjust bitrate) UP/DOWN -> BACK (new bitrate locked in)

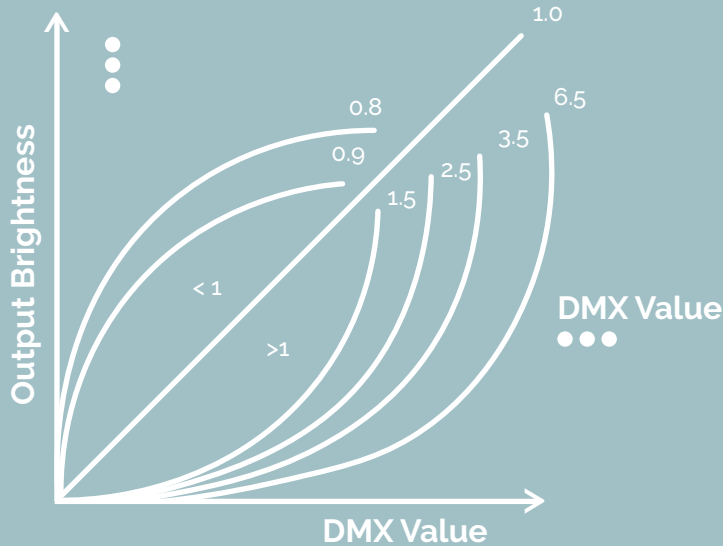
00.XX

PWM Frequency adjustment. Factory default is 10kHz. If you experience flickering or banding on camera please adjust to 12kHz or higher. ENTER -> (adjust frequency) UP/DOWN -> BACK (new frequency locked in)

- 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

00.XX

Gamma curve adjustment. Factory default is 1.5. ENTER -> (adjust frequency) UP/DOWN -> BACK (new gamma curve locked in)



00.XX

Decoding mode. Default is set to dp1.1. Please see chart on next page for further details.

DMX address is 001, C H 01

| DMX Console Slider number | dp 1.1 | dp 2.1 | dp 2.2 | dp 3.1 |
|---------------------------|--------------------|--------------------------|---------------------------|---------------------------|
| DMX channel | | | | |
| 1 | All output dimming | All output dimming | All output dimming | All output dimming |
| 2 | | All output micro dimming | All output strobe effects | All output micro dimming |
| 3 | | | | All output strobe effects |

Short circuit protection

If short circuit of the connected load is detected, the display will flash to alarm and the load will be forced to open circuit status. Once the fault is removed, the decoder will recover after re-powered on.

DMX address is 001, C H 12

| DMX Console Slider number DMX channel | Standard 8-bit mode | TRUE 16-BIT | | | | | | | | |
|--|---------------------|-------------------------|------------------------|---------------------------------|-----------------------------|------------------------------------|---------------------------------|--|-------------------------------|--|
| | dp 1.1 | dp 2.1 | dp 3.2 | dp 3.4 | dp 4.3 | dp 5.3 | dp 5.4 | dp 6.4 | dp 8.6 | dp 9.6 |
| 01 | Output 1 dimming | Output 1 dimming | Output 1 & 2 dimming | Output 1 & 2 & 3 & 4 dimming | Output 1 & 2 & 3 dimming | Output 1 & 2 & 3 dimming | Output 1 & 2 & 3 & 4 dimming | Output 1 & 2 & 3 & 4 dimming | Output 1 & 2 & 3 & 4 dimming | Output 1 & 2 & 3 & 4 dimming |
| 02 | Output 2 dimming | Output 1 micro dimming | Output 1 dimming | Output 1 & 3 dimming | Output 1 dimming | Output 1 dimming | Output 1 dimming | Output 1 dimming | Output 1 dimming | Output 1 dimming |
| 03 | Output 3 dimming | Output 2 dimming | Output 2 dimming | Output 2 & 4 dimming | Output 2 dimming | Output 2 dimming | Output 2 dimming | Output 2 dimming | Output 2 dimming | Output 2 dimming |
| 04 | Output 4 dimming | Output 2 micro dimming | Output 3 & 4 dimming | Output 5 & 6 & 7 & 8 dimming | Output 3 dimming | Output 3 dimming | Output 3 dimming | Output 3 dimming | Output 3 dimming | Output 3 dimming |
| 05 | Output 5 dimming | Output 3 dimming | Output 3 dimming | Output 5 & 7 dimming | Output 4 & 5 & 6 dimming | Output 1 & 2 & 3 strobe effects | Output 4 dimming | Output 4 dimming | Output 4 dimming | Output 4 dimming |
| 06 | Output 6 dimming | Output 3 micro dimming | Output 4 dimming | Output 6 & 8 dimming | Output 4 dimming | Output 4 & 5 & 6 dimming | Output 5 & 6 & 7 & 8 dimming | Output 1 & 2 & 3 & 4 strobe effects | Output 5 & 6 dimming | Output 5 & 6 dimming |
| 07 | Output 7 dimming | Output 4 dimming | Output 5 & 6 dimming | Output 9 & 10 & 11 & 12 dimming | Output 5 dimming | Output 4 dimming | Output 5 dimming | Output 5 & 6 & 7 & 8 dimming | Output 5 dimming | Output 5 dimming |
| 08 | Output 8 dimming | Output 4 micro dimming | Output 5 dimming | Output 9 & 11 dimming | Output 6 dimming | Output 5 dimming | Output 6 dimming | Output 5 dimming | Output 6 dimming | Output 6 dimming |
| 09 | Output 9 dimming | Output 5 dimming | Output 6 dimming | Output 10 & 12 dimming | Output 7 & 8 & 9 dimming | Output 6 dimming | Output 7 dimming | Output 6 dimming | Output 7 & 8 & 9 & 10 dimming | Output 1 & 2 & 3 & 4 & 5 & 6 strobe effects |
| 10 | Output 10 dimming | Output 5 micro dimming | Output 7 & 8 dimming | | Output 7 dimming | Output 4 & 5 & 6 strobe effects | Output 8 dimming | Output 7 dimming | Output 7 dimming | Output 7 & 8 & 9 & 10 dimming |
| 11 | Output 11 dimming | Output 6 dimming | Output 7 dimming | | Output 8 dimming | Output 7 & 8 & 9 dimming | Output 9 & 10 & 11 & 12 dimming | Output 8 dimming | Output 8 dimming | Output 7 dimming |
| 12 | Output 12 dimming | Output 6 micro dimming | Output 8 dimming | | Output 9 dimming | Output 7 dimming | Output 9 dimming | Output 5 & 6 & 7 & 8 strobe effects | Output 9 dimming | Output 8 dimming |
| 13 | | Output 7 dimming | Output 9 & 10 dimming | | Output 10 & 11 & 12 dimming | Output 8 dimming | Output 10 dimming | Output 9 & 10 & 11 & 12 dimming | Output 10 dimming | Output 9 dimming |
| 14 | | Output 7 micro dimming | Output 9 dimming | | Output 10 dimming | Output 9 dimming | Output 11 dimming | Output 9 dimming | Output 11 & 12 dimming | Output 10 dimming |
| 15 | | Output 8 dimming | Output 10 dimming | | Output 11 dimming | Output 7 & 8 & 9 strobe effects | Output 12 dimming | Output 10 dimming | Output 11 dimming | Output 11 & 12 dimming |
| 16 | | Output 8 micro dimming | Output 10 & 11 dimming | | Output 12 dimming | Output 10 & 11 & 12 dimming | | Output 11 dimming | Output 12 dimming | Output 11 dimming |
| 17 | | Output 9 dimming | Output 10 dimming | | | Output 10 dimming | | Output 12 dimming | | Output 12 dimming |
| 18 | | Output 9 micro dimming | Output 11 dimming | | | Output 11 dimming | | Output 9 & 10 & 11 & 12 strobe effects | | Output 7 & 8 & 9 & 10 & 11 & 12 strobe effects |
| 19 | | Output 10 dimming | | | | Output 12 dimming | | | | |
| 20 | | Output 10 micro dimming | | | | Output 10 & 11 & 12 strobe effects | | | | |
| 21 | | Output 11 dimming | | | | | | | | |
| 22 | | Output 11 micro dimming | | | | | | | | |
| 23 | | Output 12 dimming | | | | | | | | |
| 24 | | Output 12 micro dimming | | | | | | | | |

Strobe Channel Definitions:

{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

RDM PIDs:

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_PARAMETERS

Restore Factory Default Settings:

Press and hold down both "Back" and "Enter" keys until the digital display turns off. Release the keys. The system will reset and the digital display will turn back on. All settings will be restored to factory default as per below:
 DMX Address Setting: A001
 DMX Address Quantity: CH12
 PWM Resolution Mode: BT16
 PWM Frequency: PF10
 Gamma: ga15
 Decoding Mode: dp1.1