integral™
LED

INTEGRAL LED DMX512 DECODER ILCTDMX001

> ⚠ **WARNING** ⚠
>
> **DO NOT CONNECT THE DMX512 DECODER DIRECTLY TO A MAINS SUPPLY**
> **THE DMX512 DECODER MUST ONLY BE CONNECTED TO A SUITABLE DC12V-36V LED DRIVER**
> **SWITCH OFF POWER AT THE MAINS BEFORE INSTALLING THE PRODUCT**

IMPORTANT NOTICE

• Switch OFF power at the mains before installing the product.

• This product should be installed according to the instructions in this guide and by a qualified electrical installer.

• All electrical work must be completed in accordance with the latest IET wiring regulations (formally IEE) for the UK or in accordance with all applicable regulations and laws in the country in which it is being installed.

• Always disconnect or switch off the power supply before making any adjustment to the wiring.

• Observe the operating temperature of the product: Max Tc 75℃.

• Limited 5 Year Warranty. This DMX512 Decoder is for indoor use only. Improper installation, abuse or miss-powering of the decoder or failure to use the decoder for its intended use will void the warranty. Proof of purchase is required for all returns. Your statutory rights remain unaffected.

Please see www.integral-LED.com/warranty.

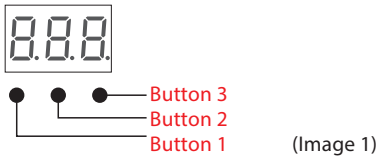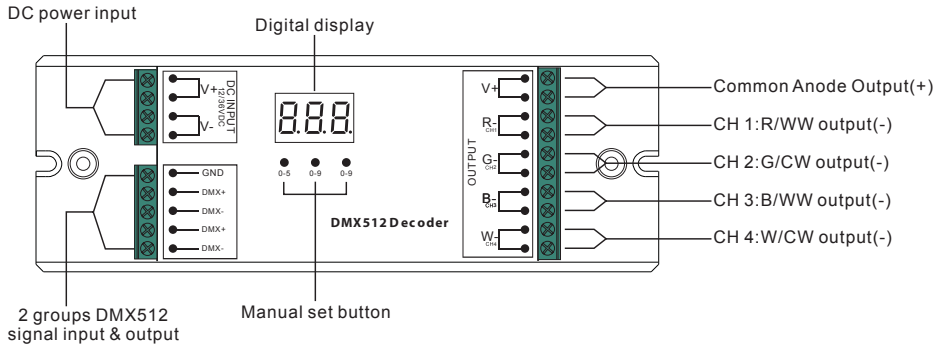Questions? Please contact you supplier or see **www.integral-LED.com**

1. INTRODUCTION

The Integral ILCTDMX001 DMX512 Decoder is designed as standard DMX512 compliant control interface, receiving DMX512 signal and distributing to LED strip products with constant voltage (DC 12V-36V). You will be able to set up the DMX address as your preference and the address is shown on the 3-digit display. ILCTDMX001 DMX512 Decoder is compatible with a standard DMX512 master controller.

2. PARAMETER

• Input Voltage: DC12V–DC36V, Constant Voltage

• Output Current: Max 32A, 8Ax4CH

• Output Power: Max 384W (12V) / 768W (24V) / 1152W (36V)

• IP Rating: IP20

• Ambient Temperature: Ta -20℃ to +50℃.

• Operating Temperature: Max Tc 75℃.

• Dimensions: L170×W59×H29 (mm)

• Weight (N.W.): 215g

DC power input

Digital display

Common Anode Output(+)

CH 1:R/WW output(-)

CH 2:G/CW output(-)

CH 3:B/WW output(-)

CH 4:W/CW output(-)

2 groups DMX512 signal input & output

Manual set button

Button 3
Button 2
Button 1   (Image 1)

Digital Display Setup

Press the buttons to set preferred channel and DMX512 address. Press button 1 to set "hundreds digit", press button 2 to set "tens digit" and press button 3 to set "unit digit" (Image 1).

          (Image 2)

Set Up Channel

To set up channel, press button 2 and button 3 simultaneously for at least 2 seconds until digital display flashes. Then press button 1 to select the numbers of channels (1 channels, 2 channels, 3 channels or 4 channels). 3 means there will be total 3 channels and 4 means there will be total 4 channels (Image 2). The factory setting is 4 channels. After choosing the numbers of channels, press any button for at least 2 seconds to confirm selection.

          (Image 3)

Set Up DMX Address

To set up DMX512 address, press button 1 for at least 2 seconds until digital display flashes. Press button 1 to set "hundreds digit", press button 2 to set "tens digit" and press button 3 to set "unit digit". For example, to set up DMX address to 001, press button 1 to choose 0, press button 2 to choose 0 and press button 3 to choose 1. After the display shows 001 address, press any button for at least 2 seconds to confirm the address.

Example of Scenario

Address is set to 001

• When set up as 1CH (1 channel), all 4 channels will be the same address 001. Then 4 channels will be controlled at the same time, suitable for single colour led strips (when 4 single colour led strips are connected to control together).

• When set up as 2CH (2 channels), channel 1 and channel 3 will be the same address 001, channel 2 and channel 4 will be 002. Then channel 1 and 3 will be controlled at the same time, and channel 2 and 4 will be controlled at the same time, suitable colour temperature changing led strips.

• When set up as 3CH (3 channels), channel 1,2,3 will be address 001,002,003, and channel 4 address is also 001. Then channel 1, channel 2 and channel 3 are controlled separately and channel 4 is not required, suitable for RGB led strip.

• When set up as 4CH (4 channels), channel 1, 2, 3,4 will be address 001, 002,003,004. Then each channel can be controlled seperately, suitable for RGBW led strip or single colour led strips (when 4 single colour led strips are connected to control seperately).

4. WIRING DIAGRAM
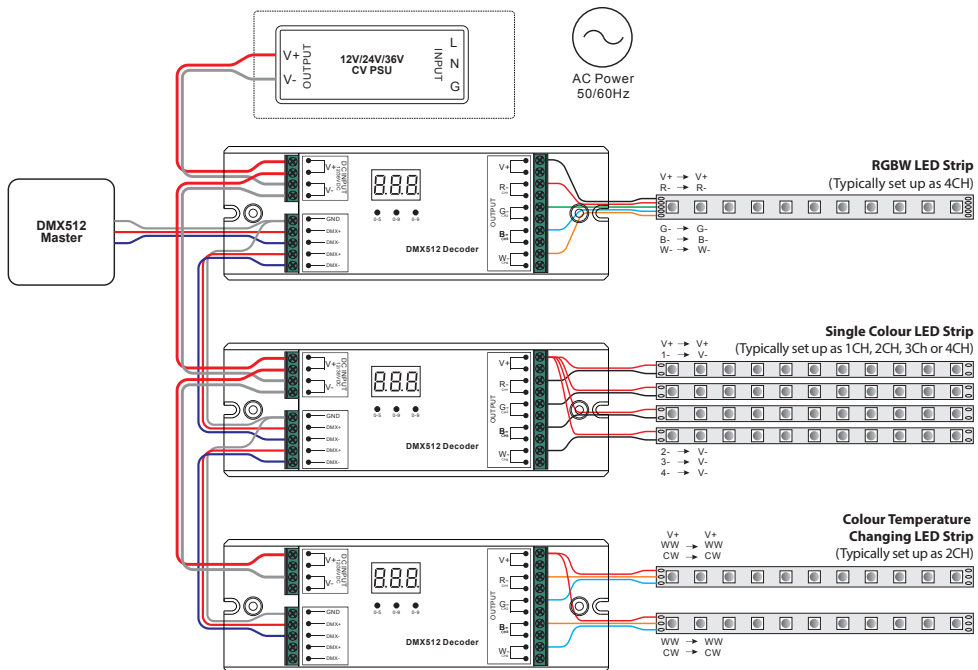
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