# FL-CTL-DMX5 5-Channel DMX512 Decoder

DMX512 / RDM decoder, 5 PWM constant-voltage outputs, common anode
12–24V DC input from a constant-voltage power supply; 5 × 8 A outputs, 5 × (96–192) W

## CAUTION

Do not install with power applied to the device. Make sure every wire connection and polarity is correct and secure before you apply power.

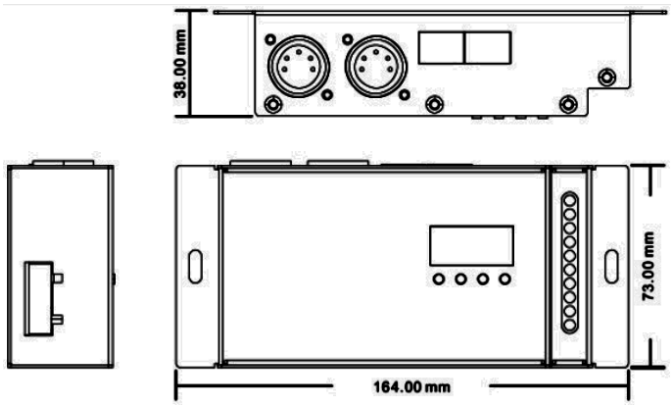
## WARNING

1. Do not expose the device to moisture.
2. Indoor, dry location only.
3. Check that the power supply output (12–24V DC) matches the decoder and the LED tape.

## QUICK SPECS

- Input 12–24V DC, constant voltage
- 5 PWM outputs, common anode, 8 A per channel
- Output power 5 × (96–192) W
- DMX512 / RDM; master or decoder mode
- DMX in/out: XLR 3/5-pin male and female, 2 × RJ45, plug-in terminals
- DMX channels 1–5 settable; PWM 8 or 16 bit
- Digital display for the DMX address and settings
- Galvanic isolation
- Size 6.5" × 2.9" × 1.5"

## DIMENSIONS




| ITEM | LENGTH | WIDTH | HEIGHT |
|---|---|---|---|
| **FL-CTL-DMX5** | 6.5 / 164 | 2.9 / 73 | 1.5 / 38 |

Inches / mm.

## TERMINALS

| TERMINAL | MARK | FUNCTION |
|---|---|---|
| **DC power input** | V+ V− | 12–24V DC from a constant-voltage power supply |
| **Common anode output** | V+ | Tape + (common anode output +) |
| **Channel outputs** | 1/R− 2/G− 3/B− | CH1 R/WW (−) · CH2 G/CW (−) · CH3 B/WW (−) |
| **Channel outputs** | 4/W1− 5/W2− | CH4 W/CW (−) · CH5 W/WW (−) |
| **XLR 3/5-pin, male and female** | Pin 1 · 2 · 3 | DMX512 signal in/out: GND · D− · D+ |
| **RJ45 (2)** | Pin 1 · 2 · 7, 8 | DMX512 signal in/out: Data+ · Data− · GND |
| **Plug-in terminals (2 groups)** | D+ D− GND | DMX512 signal in/out |

## INSTALLING THE DECODER

a. **Power off.** Do not install with power applied to the device.
b. **Power supply.** Connect the power supply's + and − DC output to the DC power input V+ and V−.
c. **Tape.** Connect the tape's + to the V+ common anode output, then each color wire to its channel output (1/R−, 2/G−, 3/B−, 4/W1−, 5/W2−).
d. **DMX signal.** Connect the DMX console to a DMX input: XLR, RJ45 or the plug-in terminals. Use the matching DMX output to link to the next decoder.
e. **Check.** Make sure every connection and polarity is correct and secure, then apply power.

## SET MASTER OR DECODER MODE

Set the mode before any other setting.

1. Keep clicking Down until the display shows run1 or run2, then click Enter.
2. Click Down to choose 1 or 2, then click Back. run1 = DMX decoder mode; run2 = DMX master mode (stand-alone).

## DECODER MODE (run1)

| | |
|---|---|
| **DMX address** | Factory default 001. |
| **DMX channels** | 1–5; factory default Ch05. |
| **Resolution** | 8 bit or 16 bit; factory default 16 bit. |
| **Signal indicator** | Lights red when a DMX signal is detected; with no DMX signal the indicator stays off and the display flashes. |

## MASTER MODE (run2)

| | |
|---|---|
| **Channel brightness** | Choose output channel 1–5 with Up or Down, click Enter, set 00–99–FL (0%–99%–100%), then click Back to confirm. |
| **Programs** | P-00 to P-31 RGB static colors and color-changing effects. |
| **Effect brightness** | 1–8 levels. |
| **Effect speed** | 1–9 levels. |