Installation Instructions

NATL-DMX-4C & NATL-DMX-4C/RGBW
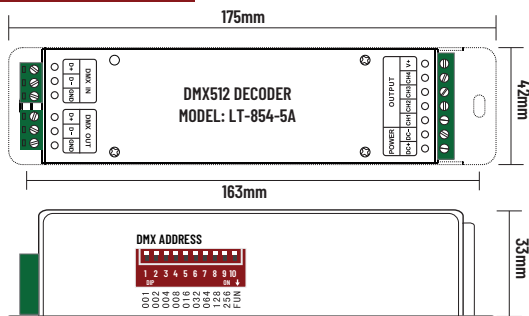### DMX Decoder for RGB and RGBW LED Tape Light

ATTENTION

1. THE PRODUCT SHALL BE INSTALLED AND SERVICED BY A QUALIFIED PERSON.
2. THIS PRODUCT IS NON-WATERPROOF. PLEASE AVOID THE SUN AND RAIN. WHEN INSTALLED OUTDOORS PLEASE ENSURE IT IS MOUNTED IN A WATER PROOF ENCLOSURE.
3. GOOD HEAT DISSIPATION WILL PROLONG THE WORKING LIFE OF THE CONTROLLER. PLEASE ENSURE GOOD VENTILATION.
4. PLEASE CHECK IF THE OUTPUT VOLTAGE OF ANY LED POWER SUPPLIES USED COMPLY WITH THE WORKING VOLTAGE OF THE PRODUCT.
5. PLEASE ENSURE THAT ADEQUATE SIZED CABLE IS USED FROM THE CONTROLLER TO THE LED LIGHTS TO CARRY THE CURRENT. PLEASE ALSO ENSURE THAT THE CABLE IS SECURED TIGHTLY IN THE CONNECTOR.
6. ENSURE ALL WIRE CONNECTIONS AND POLARITIES ARE CORRECT BEFORE APPLYING POWER TO AVOID ANY DAMAGES TO THE LED LIGHTS.
7. IF A FAULT OCCURS PLEASE RETURN THE PRODUCT TO YOUR SUPPLIER. DO NOT ATTEMPT TO FIX THIS PRODUCT BY YOURSELF.

PRODUCT PARAMETER

INPUT SIGNAL: DMX512
POWER SUPPLY CHOSEN: CV LED POWER SUPPLY
INPUT VOLTAGE: DC 12V~ DC 24V
MAX CURRENT LOAD: 54 X 4CH MAX. 20A
MAX OUTPUT POWER: 240W / 480W (12V / 24V)
OUTPUT GRAY SCALE: 256 LEVELS / CH

FRAME RATE: MAX 850 FRAME / SECONDS
DMX512 SOCKET: GREEN TERMINAL
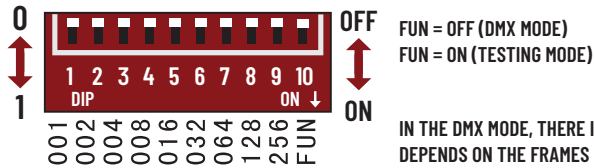**WORKING TEMPERATURE:** -30°~ 65°
DIMENSION: L175×W42×H33mm
WEIGHT: 312g

Installation Instructions

NATL-DMX-4C & NATL-DMX-4C/RGBW
DMX Decoder for RGB and RGBW LED Tape Light

OPERATION METHOD

FUN = OFF (DMX MODE)
FUN = ON (TESTING MODE)
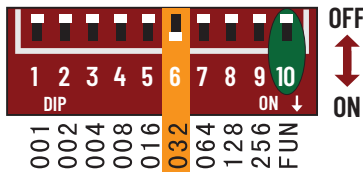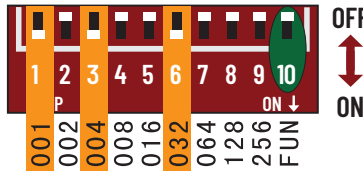
IN THE DMX MODE, THERE IS DMX SIGNAL INPUT, THE RUN LIGHT FLASHES FAST, THE FLASH FREQUENCY DEPENDS ON THE FRAMES OF DMX MASTER, IF THERE IS NO DMX SIGNAL, THE RUN LIGHT FLASHES NORMALLY.

1. INITIAL DMX ADRESS EXAMPLE: When DIP switch (1–9) = "OFF" position, the DMX initial address is 1.
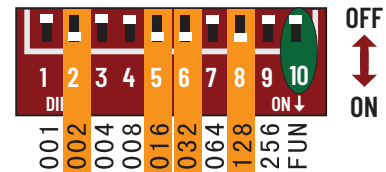
EXAMPLE 1: SET INITIAL ADDRESS TO 32

EXAMPLE2: SET INITIAL ADDRESS TO 37

EXAMPLE3: SET INITIAL ADDRESS TO 178

2. TESTING MODE: When most of the several DIP switches (1–9) = ON, subjected to the highest switch Value, when all the DIP switches = OFF, the color is black.

DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8	DIP 9	DIP 10
Red	Green	Blue	Yellow	Purple	Cyan	OFF	OFF	OFF	ON

TESTING FUNCTION: STATIC RED COLOR EFFECT

TESTING FUNCTION: STATIC GREEN COLOR EFFECT

TESTING FUNCTION: STATIC COLOR PURPLE EFFECT

1-6 DIP switch=OFF or =ON, it shows static white color.

DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8	DIP 9	DIP 10
Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 6	Flash	Strobe (ON)	Smooth (ON)	ON

TESTING FUNCTION: 7 COLORS SMOOTH, THE SPEED IS 0

TESTING FUNCTION: WHITE STROBE, 5 SPEED LEVEL

DIP 1-6 is to realize 7 speed levels. 6 is the fastest levels while dip switch 1-6 = OFF: the speed is 0

Dip switch 8/9 = ON, it's 7 Colors Skipping / 7 Colors Smooth (Channel 4 is Fade out and Fade in) changing mode, 7 speed levels for option.

DIP7 = ON, it's White Strobe, 4 channels are all strobe mode. DIP 1-5 are the 5 speed levels, the fastest and the slowest levels are not strobe. (When DIP 1-6 = OFF/ON, it's the static white mode)

Installation Instructions

NATL-DMX-4C & NATL-DMX-4C/RGBW
DMX Decoder for RGB and RGBW LED Tape Light

CONJUNCTION DIAGRAM

081420P3-3
IS-NATL-DMXR01