BRIGHTLIGHT
LED LIGHTING SOLUTIONS

4-CHANNEL DMX TRANSCEIVER

CODE
BL-DMX-104

INPUT/ OUTPUT	DMX 512 signal
VOLTS	5–24V DC
DIMENSIONS	W44 × L175 × H30mm
HOUSING	PVC casing
MOUNTING	2 × mounting tabs
WARRANTY	5 years
COMPLIANCE	
OPERATING TEMP.	-30°C ~ +55°C
INGRESS PROTECTION	Indoor use only
CONNECTION METHOD	Concealed screw terminals
CONTROL	DMX 512 signal
MAX. DISTANCE FROM POWER SUPPLY	Recommended under 10 metres *For specific projects contact Bright Light*

FUNCTION

– Frequency of 2.4GHz ISM 64 channels

– DMX control for single colour, Tuneable white, RGB, and RGBW LED ribbon strip or other constant voltage luminaires

– Send DMX signal from a single unit and have multiple units receiving with instant, seamless results.

– Ideal for retro fit applications where cable installation is a challenge

DIP SWITCH OPERATION

The 10th Dip Switch:
When set to OFF unit will be configured as sender.
When set to ON unit will be configured as receiver.

(Figure 1)

The 9th Dip Switch

Valid when it is configured as sending end.

(Figure 2)   (Figure 3)

Figure 2 shows the normal mode when OFF, sending out the data from the DMX console.

Figure 3 shows the self-testing mode when on, sending out the auto-generated DMX console data (full colour smooth changing effect)

The 7-8 Dip Switch:

4 levels of transmission power

dBm	7	8
20	OFF	OFF
10	OFF	ON
5	ON	OFF
1	ON	ON

(figure 4)

The 1-6 Dip Switch
64 frequencies to select (2401~2464MHz), the interval of frequency is 1Mhz

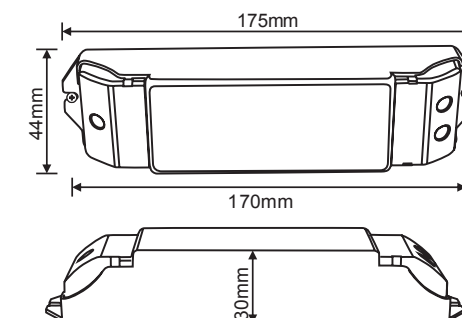| DIP	1	2	3	4	5	6
VALUE	001	002	004	008	016	032

Frequency value = the total place value amount of 1-6 dip switch + 2400, put the dip switch to ON position, user can get its place value, put dip switch to OFF position, its place value is 0.

Example: Figure 5 - the repeater frequency is 2437m

Set the 1st, 3rd and 6th dip dwitch to "1", the rest to "0".
The value summation from 1-6 is 1+4+32 = 37,
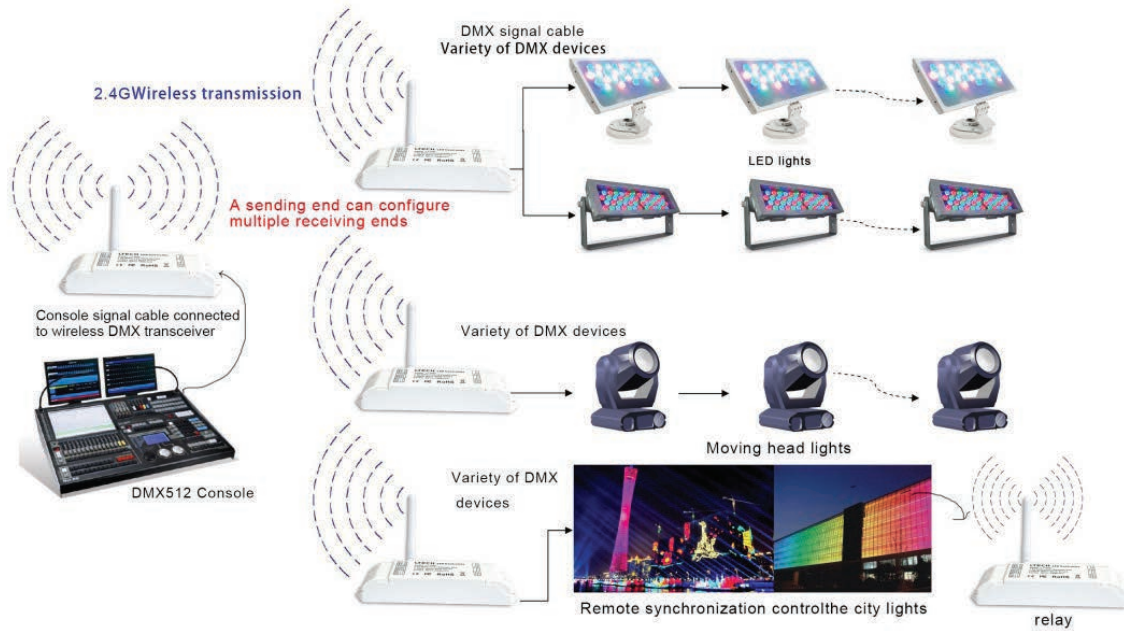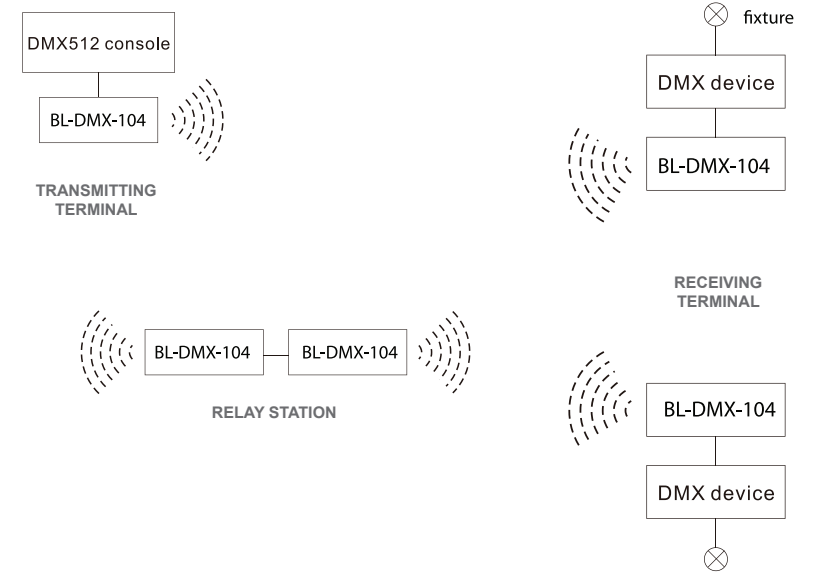So the repeater frequency is 37+2400 = 2437m

(figure 5)

DETAIL DIAGRAM

RUNNING LIGHT
Turns on when connected to power supply

DIP SWITCH

TX/RX LED
Indicator light flashes in data transmission

BL-DMX-104

SIGNAL INPUT/ OUTPUT SOCKET

DC5V~24V Power Input Socket

SENDER / RECEIVER UINIT

DIMENSIONS

175mm
44mm
170mm
30mm
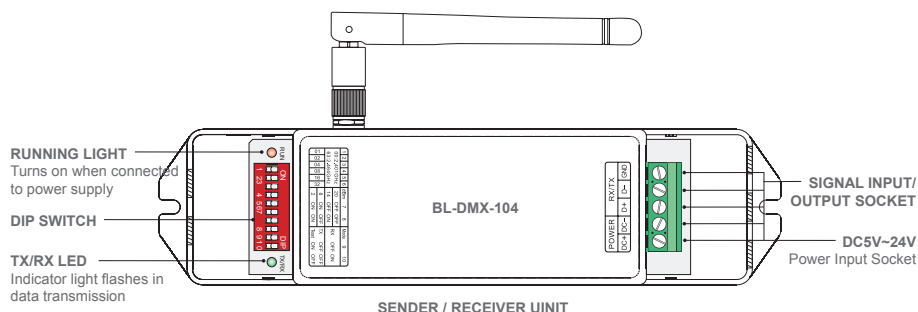
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WIRELESS DIAGRAM

RELAY WAY TO EXTEND THE COMMUNICATION DISTANCE

ATTENTION:

– The product shall be installed and serviced by a professional electrician.

– This product is not waterproof & cannot be installed outdoors, use IP65 box if required for outside use.

– Good heat dissipation on will prolong the working life of the repeater, please ensure good ventilation.

– Please check the output voltage of any power supply used complies with the working voltage of the LED product used.

– Ensure an adequate sized cable is used from the controller to the LED lights to carry the current, please also ensure the cable is secured tightly in the connector.

– Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.

– If a fault occurs please return product to your supplier. Do not attempt to fix this product yourself.