

DMX Controller Instruction

Warnings:

- 1). The antenna must be connected before plugging in the power supply, otherwise the device may be damaged.
- 2). Please untie the antenna cable and keep it far away from the controller and DMX console, otherwise the controller may not work well .
- 3). It's suggested to insert the plastic tab back into the led products after sample testing, to make sure enough battery power during the show.

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1. Controller Parameters

Power supply voltage: DC 12V 7A

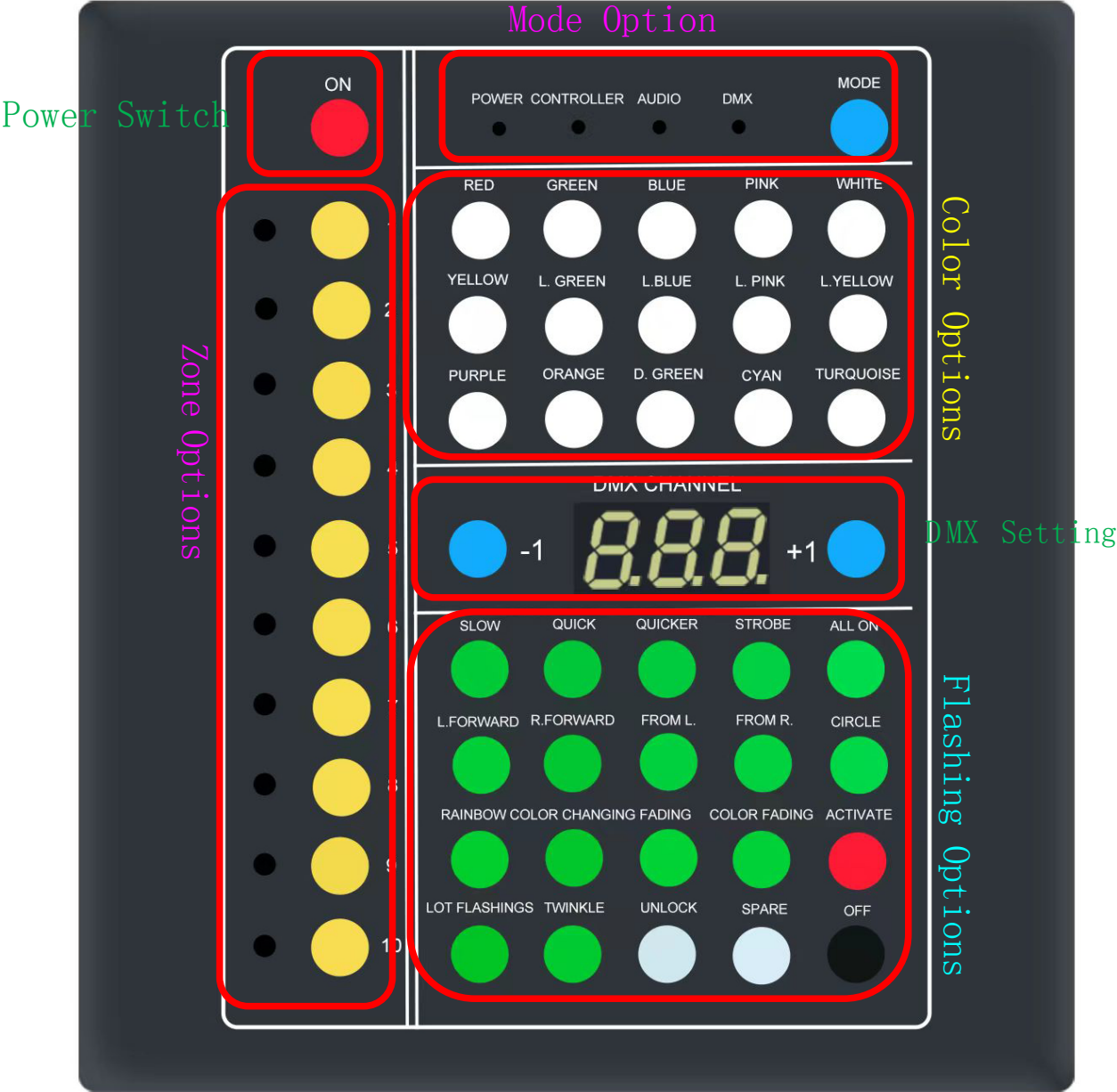
Transmission frequency: 433MHZ (some frequencies can be customized)

Transmit power: 2/10W (peak)

DMX: compatible with DMX512

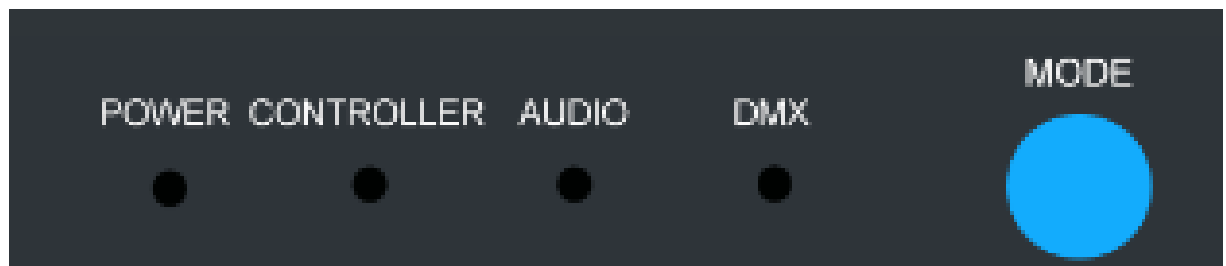


2. Controller Panel



3. Functions

The controller-DMX433 comes with 10/20 zones and 3 control modes. The “MODE” can be switched by the orange button. When the remote control wakes up again, it will keep the same mode as last time.



POWER: Power indicator

AUDIO: Audio function indicator. It blinks when it is sending signals.

CONTROLLER: Controller mode indicator, it works once power is on.

DMX: DMX console indicator

4. Control Mode

4.1 LED color options.



4.2 Flashing mode options.



- 1) **Slow:** products flash slowly
- 2) **Quick:** products flash fast
- 3) **Quicker:** products flash faster

- 4) **Strobe**: products flash intermittently
- 5) **All On**: products always keep the light on
- 6) **L. Forward**: products from zone 1/11 to zone 10/20 light up for 0.5 seconds in sequence, the colors are randomly selected, and this sequence is cycled.
- 7) **R. Forward**: products from zone 10/20 to zone 1/11 light up for 0.5 seconds in sequence, the colors are randomly selected, and this sequence is cycled.
- 8) **From L.**: products from zone 1/11 to zone 10/20 light up one by one in each zone, and the colors are randomly called and cycled. The disappearance mode is fade-out
- 9) **From R.**: products from zone 10/20 to zone 1/11 light up one by one in each zone, and the colors are randomly called and cycled. The disappearance mode is fade-out
- 10) **Circle**: The product lights up one zone at a time from zone 1/11 to zone 10/20, and then lights up one zone at a time from zone 10/20 to zone 1/11.
- 11) **Rainbow**: products from zone 1/11 to zone 10/20 with red/orange/yellow/green/cyan/blue/purple color in a cycle
- 12) **Color Changing**: 15 colors appear alternately and cycle
- 13) **Fading**: products stay in the last used color and flash from dark to light and then from light to dark, in a cycle
- 14) **Colors Fading**: products mix colors and flash from dark to light and then from light to dark, in a cycle
- 15) **Active**: After activation, all products in the area light up red color. It is also suitable for products to quickly enter remote control state from non-working state.
If the product comes with hibernation function, it will fall asleep after 20 minutes that no operations on controller and its LED will be off. If you want it to work again, please press "ACTIVATE" red button to wake up the product.
- 16) **Lot Flashings**: product flashes randomly with other modes.
- 17) **Twinkle**: product lights up white color and twinkle alternately
- 18) **Unlock**: the product's own button function is invalid under the remote control mode, press the button to unlock the button function, it will be restored.

- 19) **Spare:** "SPARE" is a developer button to be determined which is invalid by default. The program can be reloaded to complete the corresponding settings if there is a special requirements by customer/user.
- 20) **Off:** When it is under CONTROLLER mode, press button and turn off all products of the zones which are selected.

4.3 Zone Option

There are 10/20 zones for option. One zone or mixed zones can be selected for combined control. When the light of the zone part is on, it means the zone has been selected.

4.4 SPARE Function

1) Zone Programmable Function

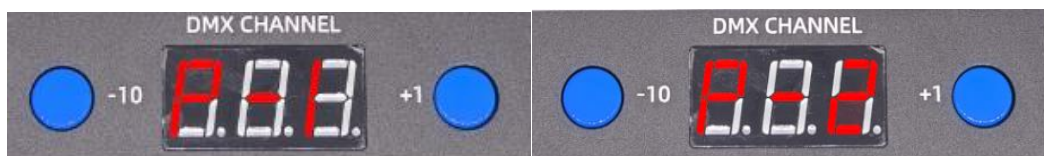
To press the new zone button and SPARE button at the same time for 2 seconds, when the product LED twinkle, the product is working under new zone.

For example, if you want to change products from zone 5 to zone 1, you need to turn off the other 9 zones products except zone 5, and then press zone 1 button and SPARE button at the same time, when the products flash twinkle, means the products are now working under zone 1.

(Please note: This function is only available if you have purchased a product with a programmable chip.)

2) Power Switching Function

Within 15 seconds of plugging in, the controller frequency can be switched by the SPARE button and the ACTIVATE/OFF button.



When the SPARE button and the ACTIVATE button are pressed at the same time, the DMX CHANEL display will be "P-2", and the controller is at a higher power. When the SPARE button and the OFF button are pressed at the same time, the DMX CHANEL display will "P-1", and the controller is at a lower power.

(Special note: The default power of the controller is 2W for low power and 10W for high power. If there are special power requirements, it can be customized according to customer requirements.)

5. DMX mode

Please note that DMX mode only works after it connects with stage light console and the flashing effects need engineer to edit. We will provide channels chart to help engineer to edit it.

Please connect the DMX cable to the controller port “DMX-IN” and the other end connect to light console DMX output port. To press blue MODE button to make it under DMX mode. When the DMX white light is on, it is working under DMX mode. The lighting engineer can edit the flashing effects from lighting programmer.

5.1 DMX channels chart

Channel		Range		Channel		Range	
1	Zone Channel	0-255		22	R	0-255	
2	R	0-255		23	G	0-255	
3	G	0-255		24	B	0-255	
4	B	0-255		25	Function Channel	0-255	
5	Function Channel	0-255		26	R	0-255	
6	R	0-255		27	G	0-255	
7	G	0-255		28	B	0-255	
8	B	0-255		29	Function Channel	0-255	
9	Function Channel	0-255		30	R	0-255	
10	R	0-255		31	G	0-255	
11	G	0-255		32	B	0-255	
12	B	0-255		33	Function Channel	0-255	
13	Function Channel	0-255		34	R	0-255	
14	R	0-255		35	G	0-255	
15	G	0-255		36	B	0-255	
16	B	0-255		37	Function Channel	0-255	
17	Function Channel	0-255		38	R	0-255	
18	R	0-255		39	G	0-255	
19	G	0-255		40	B	0-255	
20	B	0-255		41	Function Channel	0-255	
21	Function Channel	0-255					

RGB Channel Description	
DMX Channel	Output %
0-15	0
16-30	7
31-45	13
46-60	21
61-75	27
76-90	33
91-105	40
106-120	47
121-135	53
136-150	60
151-165	67
166-180	73
181-195	80
196-210	87
211-225	93
226-255	100

Zone Channel Description	
0-50	Zone 01-10
51-100	Zone 11-20
101-255	Zone 21-30

Function Channel Description	
0-50	Steady on
51-100	Slow
101-150	Quick
151-255	Quicker

5.2 DMX channels settings

At initial state, DMX channel starts at 002. To press “-10” button, channel from 512 to 502 and downward. To press “+1” button, channel from 001 to 002 and upward.



+1: DMX number up button, to press once, +1 up.

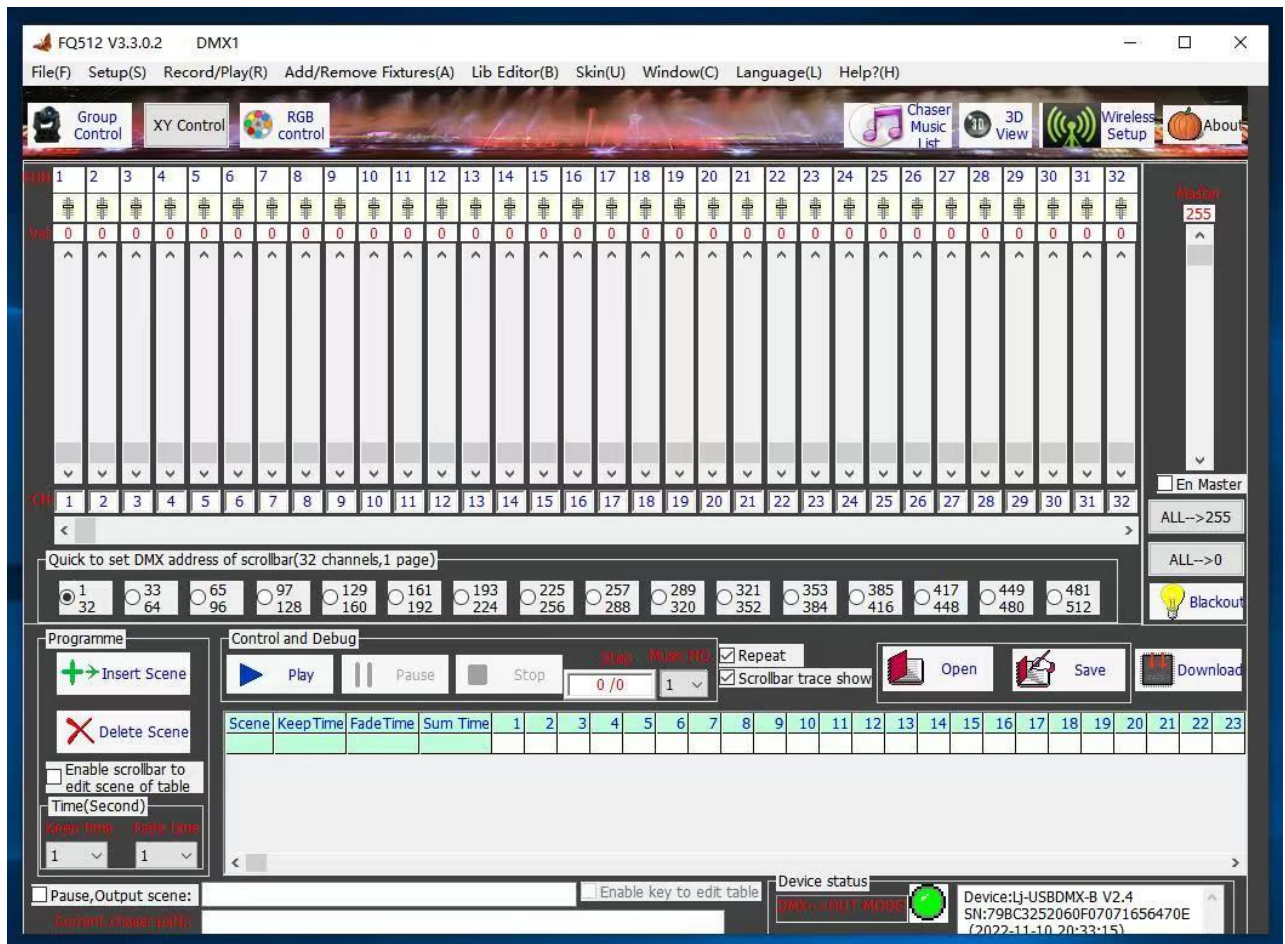
-10: DMX number down button, to press once, -10 down.

Our controller comes with 512 channels and each 4 channels is for 1 zone(RGB colors and flashing speed). For example, R(red color) of zone 1 is 002, G(green color) is 003, B(blue color) is 004, flashing speed is 005. And so on.

Please note that the DMX address channel settings for the 10-zone controller are different from that for the 20-zone controller. In the 10-zone controller, the R (red) for zone 1 products starts at 001, which means that channel 001 is not occupied.

5.3 DMX software panel

This USB-DMX512 converter needs to be ordered separately and can convert our remote control to operate on the computer software.



6. Audio mode

The LED colors blink by the music rhythm. Please connect the music player from computer/MP3/MP4/DVD to Audio in port of the controller. It does not support mobile phone calling. Please adjust the music to a certain volume to make the indicator light to blink. A high volume will make the light steady on and a low volume will not make the light on. In this way, the LED color blinks as the music rhythm.

7. Accessories

DMX 433MHZ controller

Antenna

Antenna Stand

DMX Cable

Power cable

Power adapter

8. How to deal with the problems



Special note 1: Please connect antenna before turn on the power as its power output is high.

Special note 2: Please insert the insulation sheet to the products after test, otherwise the battery will be run out soon .

1). The power light is not on:

Please check the power plug and socket are connecting right or not.

2). Under controller mode, buttons being disable:

To check all buttons to see if any button is stuck. If yes, make it loose.

3). It jumps to CONTROLLER mode;

Please keep the antenna 2meters away from the light console.

4). Noise from equipment nearby:

Please keep the antenna away from them.

5). Under the Audio mode, the light is not on or just keep being steady.

To adjust the audio control button, to make it flashing with music.

6). The RF light is flashing, but the product is not working:

Please press the product button to white color. If it is not so white, but a bit red. It means the battery is not enough. Please replace battery.

7.)Under DMX code, the product is not controlled:

Please make sure the DMX cable is connecting to the main control equipment. Also to make sure the channel setting is correct.