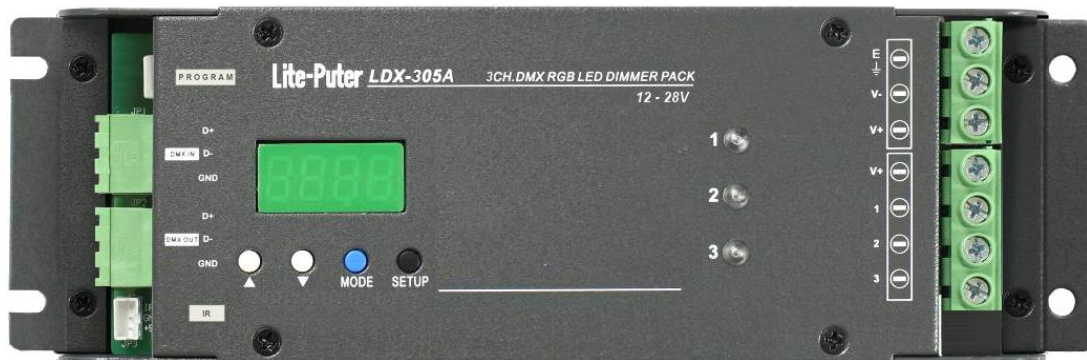


LDX - 305A

3 CH DMX LED DIMMER PACK

User Manual



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1 Introduction

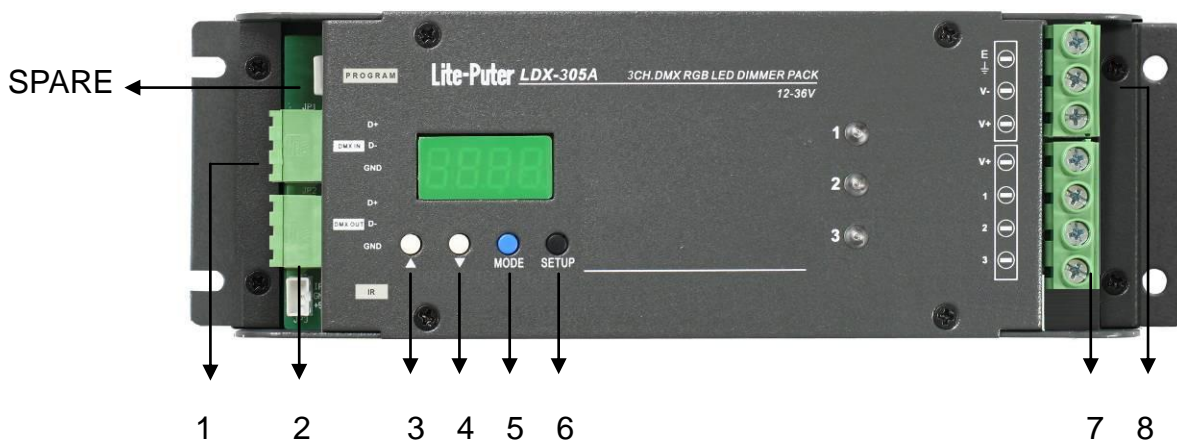
1-1 Feature

- 3 channel LED outputs.
- DMX-512
- 0-100% dimmable.
- Built-in 31 modes
- 7 scenes (SC1~6+OFF)
- Connectable to ECP control panel and IR remote.

1-2 Specification

- Power Supply : 12 – 28V DC
- Output : 5A per channel
- Protocol : DMX-512
- Transmission Rate : 250K bps
- Signal connector : 3PIN green terminal
- Dimension : 234(W) X 75(H) X 40 (D) mm
- Weight : 0.4 kg
- Fuse: PCB No.: RD22A1 F4,F5 (Resettable fuse 0.1A, 60V)
F1-F3 (Tube fuse 6A, 250V)

1-3 Panel Introduction



(1)DMX IN (3 pin)	(5) MODE
(2) IR receive port (3 pin) (optional)	(6) SETUP
(3) UP	(7) OUTPUT
(4) DOWN	(8) POWER INPUT

2 Operation

2-1 Built-in Mode Setting and Recall

STEP-1 Press **【MODE】** once to enter the setting,

F-01

Blinks and it stands for mode mode 01.

STEP-2 Press **【▲】** or **【▼】** to select the built-in mode, for example, select mode 16,

F-16

Blinks and it stands for mode 16.

STEP-3 Press **【SETUP】** to save the mode selection and go back to the main page, then the selected mode 16 will be call out.

F-16

Mode16 stops blinking.

Notice: LDX-305A has 39 built-in modes; please check the mode list in 2-12.

2-2 Zone No. Setting

About Zone: The device must set the zone number before use, which consists of two parts, one is the zone number and another is the start channel address.

STEP-1 On the main page, press **【MODE】** twice to enter the setting,

0101

Zone No.

Start channel address

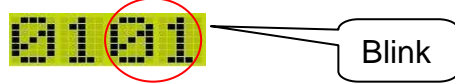
STEP-2 Press **【▲】** or **【▼】** to change the zone number.

STEP-3 After zone number setting, press **【MODE】** again to save the setting.

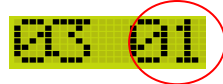
STEP-4 Press **【▲】** or **【▼】** to change the starting address then press **【SETUP】** to save the setting and go back to the main page.

For example : The current setting is Zone No.: 1, start channel address: 1 ;
Change the setting to Zone No.: 3, start channel address: 2.

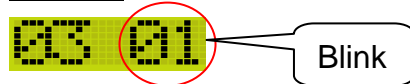
STEP-1 On the main page , press **【MODE】** twice to enter zone setting,



STEP-2 Press **【▲】** twice to change the zone number to 3,



STEP-3 Press **【MODE】** once shift to start channel address setting,



STEP-4 Press **【▲】** once to change the address to 2,

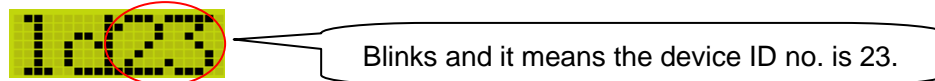


STEP-5 Press **【SETUP】** to save the setting and go back to the main page.

2-3 ID Number Setting

When several EDX devices work together, each device must have a unique ID number.

STEP-1 On the main page press **【MODE】** 4 times to enter the setting ,



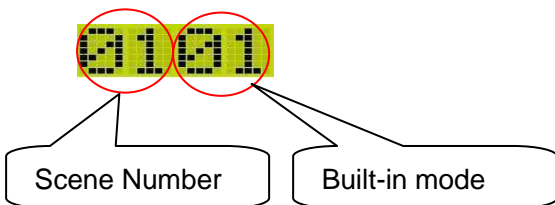
STEP-2 Press **【▲】** or **【▼】** to change the ID number from 1 to 99.

STEP-3 After setting, press **【SETUP】** to save the setting and go back to the main page.

2-4 Built-in Mode to Scene Setting

There are 7 scenes (scene 1~6 and scene off) can be stored in LDX-305A. The stored scenes can be recalled by ECP control panels or IR remote (IR-0501).

STEP-1 On the main page, press **【MODE】** 5 times to enter the setting,



STEP-2 Press **【▲】** or **【▼】** to select a scene number, press **【MODE】** shift to change built-in mode number.

STEP-3 Press **【SETUP】** to save the setting and go back to the main page.

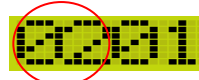
For example:

Scene 2 corresponds to Mode 24

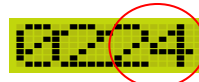
STEP-1 After enter the setting,



STEP-2 Press **【▲】** once to select scene 2,



STEP-3 Press **【MODE】** shift to select built-in mode corresponds to scene 2, press **【▲】** till display 24,



STEP-4 After setting, press **【SETUP】** to save the setting and go back to the main page.

2-5 DMX Control Setting

STEP-1 If select the current mode as DMX512 mode (the 32nd mode on the list) , the LED screen will display as figure A; then press **【SETUP】** to save the selection and go back to the main page. Now the main page will display as figure B,



Figure A

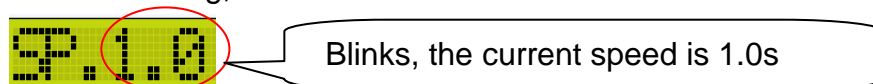


Figure B

STEP-2 When the DMX signal inputs, the dot on graph B will blink,which means the device is controlled by DMX-512 signal.

2-6 Chaser Speed Setting

STEP-1 On the main page, hold **【SETUP】** till the last two bits on the LED screen blinking,



Press **【▲】** or **【▼】** to change the speed from 0 to 10s.

STEP-2 Release **【SETUP】** to save the speed setting and go back to the main page.

2-7 DMX Address Setting

STEP-1 On the main page, hold **【SETUP】** till the last three bits on the LED screen blinking,



Blinks, the current DMX address is 001.

STEP-2 Press **【▲】** or **【▼】** to change the address from 001 to 512.

STEP-3 Press **【SETUP】** to save the setting and go back to the main page.

2-8 Set/Check Each Channel Dimming Level

STEP-1 On the main page, press **【▲】** or **【▼】** to check channel dimming value.

The current channel's dimming value is 25%,

The first channel of the 4 channels



Dimming value is 25%.

STEP-2 Press **【MODE】** to select other three channels and press **【▲】** or **【▼】** to change the dimming value.

STEP-3 Press **【SETUP】** to save the setting and go back to the main page.

Notice: The adjust mode (it is the 33rd to 39th mode on the list) means save the dimming value of each channel as a scene, when select the adjust mode, this scene will be call out.

EXAMPLE:

To set channel 1 as 100%, channel 2 as 90%, channel 3 as 80%, and then save this scene (ch1: 100%, ch2: 90%, ch3: 80%) as scene 1:

STEP-1 Return to the main page, LED shows



It means current mode is "mode 1" (F-01).

STEP-2 Press **【MODE】** once, the last two digits (mode number) on the LED screen will be blinking. Then press **【▲】** or **【▼】** to select a mode from mode 33 to mode 39 (please refer 2-4). In this example, we select "mode 34" (F-34).

Press **【SETUP】** to enter into the mode (F-34). LED shows:



STEP-3 Press **【▲】** or **【▼】** once to enter into “edit mode”, LED screen shows the dimming level of channel 1:



It means that the dimming level of channel 1 is 25%.

Press **【▲】** or **【▼】** to set the dimming level of channel 1 to 100%. LED screen shows:



STEP-4 Press **【MODE】** once to check channel 2. LED screen shows:



It means the dimming level of channel 2 is 0%.

Press **【▲】** or **【▼】** to set the dimming level of channel 2 to 90%. LED screen shows:



STEP-5 Press **【MODE】** once to check channel 3. LED screen shows:



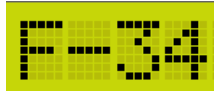
It means the dimming level of channel 3 is 15%.

STEP-6 Press **【▲】** or **【▼】** to set the dimming level of channel 3 to 80%. LED screen shows:

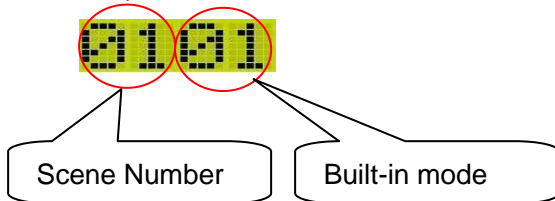


STEP-7 To check channel 1 ~ 3 again: Press **【MODE】** once to check channel 1. Press **【MODE】** once again to check channel 2. Press **【MODE】** once again to check channel 3.

STEP-8 Press **【SETUP】** once to store current scene (ch1: 100%, ch2: 90%, ch3: 80%) to mode 34 (F-34). LED shows



STEP-9 Press **【MODE】** 5 times to enter the scene-mode setting (please refer 2-4),



STEP-10 Press **【▲】** or **【▼】** to select a scene number, press **【MODE】** shift to change built-in mode number. In this example we would like to make scene 1 as mode 34.

LED screen shows:



STEP-11 Press **【SETUP】** to save the setting and go back to the main page.

STEP-12 Connect ECP control panel to LDX-305A's DMX port, you can recall mode 34 (F-34) by scene 1 button on the ECP control panel.

2-9 Intelligent Mode

STEP-1 If select the current mode as intelligent mode (Mode 32) , the LED screen will display as figure A; then press **【SETUP】** to save the selection and go back to the main page. Now the main page will display as figure B,



Figure A

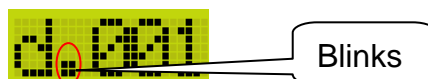


Figure B

STEP-2 Now LDX-305A is controlled by DMX signal, and it only can receive 6 DMX channels signal. The 1st to 3rd DMX channels of DMX 512 control LDX-305A's 3 outputs. The 4th DMX channel out of DMX 512 can call out the built-in mode. The 5th DMX channel out of DMX 512 controls the chaser speed,

range for 0-10s. The 6th DMX channel out of DMX 512 is the master control for LDX-305A's 3 channels.

Notice: The 1 to 30 mode is changed according to the level change of 4th DMX channel.

Level of DMX channel	Built-in Mode
<3%	Mode 1
3%-6%	Mode 2
6%-9%	Mode 3
9%-12%	Mode 4
12%-15%	Mode 5
15%-18%	Mode 6
18%-21%	Mode 7
...	...
>87%	Mode 29

For example

CX-1204 (Lite-Puter's 12 CH DMX console) control LDX-305A.

The 1 to 6 channel's level of CX-1204 is 100%,50%,0%,50%,50%,80% separately, so the dimming value of LDX-305A's 3 channels is 100%,50%,0% separately , the built-in mode 17 will be call out, the chaser speed is 5S.

As to the master control:

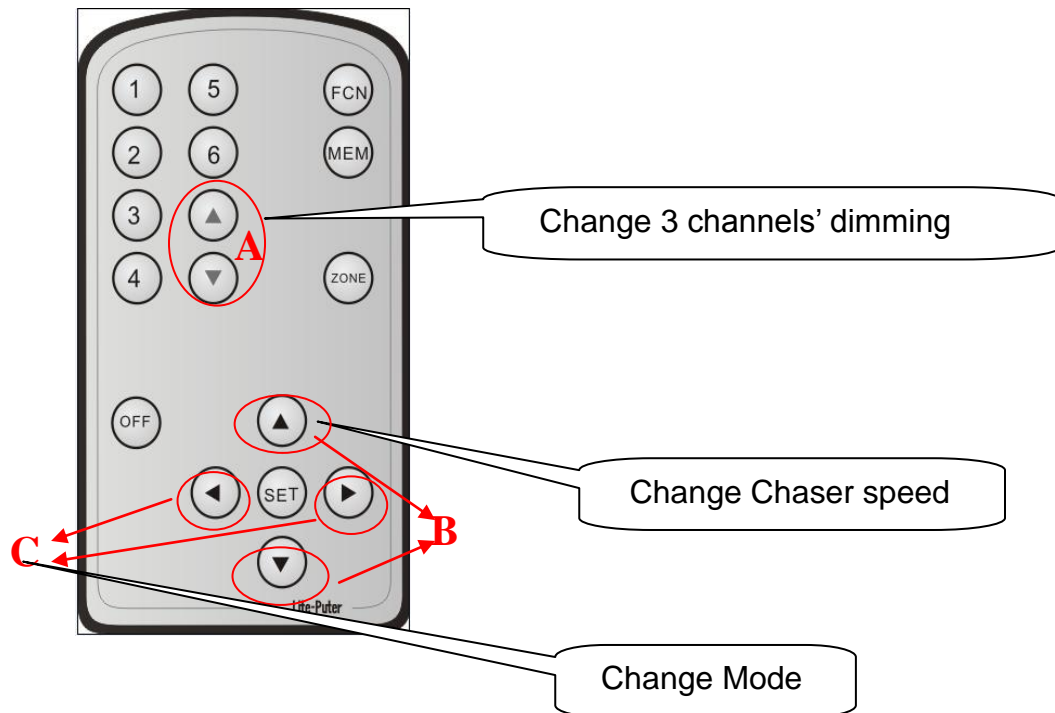
First step: the 3 channel's dimming value of LDX-305A will compare with the 1st to 3rd DMX channel's dimming value of CX-1204, and LDX-305A's each channel output the higher dimming value.

Second step: the master control is 80%, so LDX-305A's each channel only output 80% of the higher dimming value.

Device	1 st channel	2 nd channel	3 rd channel
LDX-305A	80%	100%	80%
CX-1204	100%	50%	0%
Compare	100%	100%	80%
Master Control	80%		
Output	80%	80%	64%

2-10 IR Remote Controller Setting

STEP-1. Lite-Puter' IR remote controller---IR-0501,



The 1~6 and OFF button can recall scene 1~6 and scene off. (about scene setting, please refer 2-4).

The **【▲】** and **【▼】** button mark as A can change 3 channels' dimming value . The **【▲】** and **【▼】** button mark as B can change the chaser speed. The **【▶】** and **【◀】** button marked as C can select the built-in mode from 1 to 33, the press **【SET】** to save the setting.

For example

The current mode is 28, press **【▲】** and **【▼】** marked as B to change the chaser speed and press **【SET】** to save the setting. Press **【▶】** and **【◀】** marked as C to select other built-in mode, and follow the same steps to change their chaser speed.

Notice: In the adjust mode(the 30th mode on the list) , hold **【MEM】** for 3 seconds ,it can save the current output to the adjust mode automatically.

2-11 ECP series Control Panel Setting

ECP series control panel can recall and fine adjust the scenes.

2-12 Built-in Mode List

No.	Vision	Explanation
1	BLACK	Static state black
2	STATIC RED	Static state red
3	STATIC GREEN	Static state green
4	STATIC BLUE	Static state blue
5	STATIC YELLOW	Static state yellow
6	STATIC PURPLE	Static state purple
7	STATIC CYAN	Static state cyan
8	STATIC WHITE	Static state white
9	COLOR CHANGE	Seven-color skip change
10	SIX COLOR	Six-color skip change(exclude white)
11	RGB CHANGE	Three-color skip change
12	RG CHANGE	R+G skip change
13	RB CHANGE	R+B skip change
14	GB CHANGE	G+B skip change
15	WHITE CHANGE	White frequently twinkling
16	COLOR SMOOTH	Seven-color gradual change
17	RGB SMOOTH	Three-color gradual change
18	RG SMOOTH	R+G gradual change
19	RB SMOOTH	R+B gradual change
20	GB SMOOTH	G+B gradual change
21	COLOR GRADUAL	Seven-color gradual bright gradual dark
22	RGB GRANDUAL	Three-color gradual bright gradual dark
23	WHITE GRADUAL	White gradual bright gradual dark
24	RG GRADUAL	R+G gradual bright gradual dark
25	RB GRADUAL	R+B gradual bright gradual dark
26	GB GRADUAL	G+B gradual bright gradual dark
27	R GRADUAL	R gradual bright gradual dark
28	G GRADUAL	G gradual bright gradual dark
29	B GRADUAL	B gradual bright gradual dark
30	AUTO PROGRAM	Auto mode
31	DMX512 MODE	DMX mode
32	Intelligent MODE	Intelligent mode
33-39	ADJUST MODE	Adjust mode

Limited Warranty

1. Lite-Puter is only responsible for the product itself.
2. Lite-Puter guarantees to keep Lite-Puter's from manufacturing defects within a year since the distributing date.
3. Lite-Puter does not offer on-site service. If the defects appears
In Lite-Puter's product, please deliver the product to local distributors or to Taipei headquarters.
4. The warranty does not cover:
 - a. Any fault caused by false usage, imprudence (collision, inadequate installation or adjustment, insufficient ventilation, or improper repairs)
 - b. Force majeure factors (*flooding, earthquake, thunder, volcanic eruption, tsunami or other factors beyond Lite-Puter control*).
 - c. The cost of installing, reinstalling, adjusting, repairing, or reprogramming the product.
 - d. Other products or devices which are offered by Lite-Puter or not by Lite-Puter.
5. Lite-Puter does not warrant the product will operate without interruption or being free of error.

Revision Record

Version	Record
A	First version
B	Change 1-2
C	Picture of LDX-305A edited
D	Typo modified

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