

User Manual

EDX-607A

6 Channel Integrated Dimmer Pack



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0 Before Installation

1. The setting of dimmer or non-dimmer mode:

The dimming/non-dimming (switch) mode should be preset before the lamps/loads being connected to the devices. Please refer to “Dimmer/Switch Mode Setting” in this manual.

2. Current Loading Precaution:.

Please keep adequate ventilation. If the machine’s internal temperature is over 65°C, the device will stop output.

The maximum output of each channel is 4A. The maximum output of the 6 channels in total is 8A .

3. Instruction of power/ load wiring:

Connector size range AWG 22-14

Use Copper Conductors Only, 60/75°C, Tighten To 12 pound-inches.

4. Suggested Environment:

Ambience Temperature: under 35°C

Humidity: 40% ~ 80%

5. About wiring:

Please check EDX/DMX-512 wiring guide on Lite-Puter’s website:

http://www.liteputer.com.tw/tech_guide.asp

1 Introductions

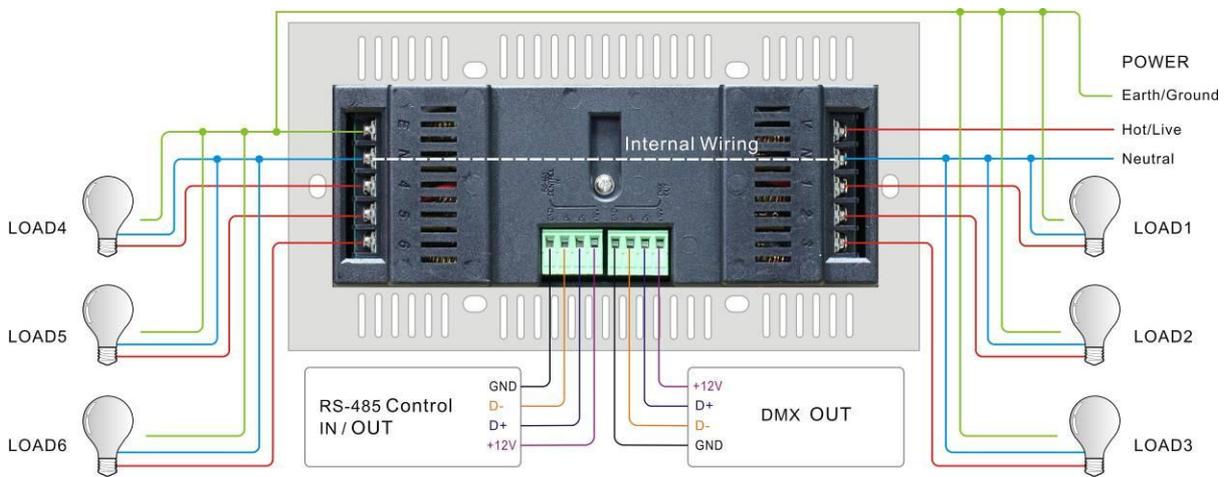
1-1 Features

1. 6 channels. The maximum output of each channel is 4A; the maximum output in total is 8A .
2. The master panel can store 12 scenes, display 12 channels dimming value, and transmit 12 channels DMX-512 signal.
3. IR remote controller (optional) can recall 6 scenes, adjust any channel's dimming level, and edit 6 scenes directly. User can also view current zone number and set fade in/fade out time by IR remote controller
4. C1, C2, C3 liner dimming curve.
5. Fade in/fade out time setting.
6. Timer control can execute preset lighting scenes automatically (24hours).
7. Each channel can be set as dimming, switch or fluorescent mode.
8. Display system temperature and detect temperature automatically. When the internal temperature is over 70°C, it will alert and limit the output to 50%. Over 75°C it will stop output automatically.
9. Display total current. If total current is over 25A, it will switch off automatically and press **【OFF】** to restart the device . If total current is over 20A, it will limit the output to 12A and press any button to restart the system.
10. Can be connected to scene control panels (ECP series).
11. Lock/unlock.

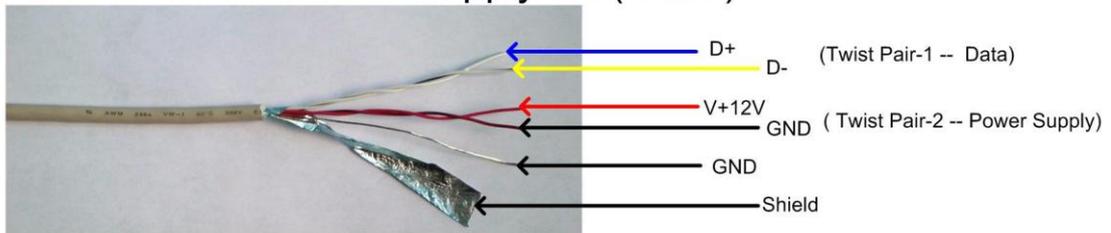
1-2 Specifications

- Power: AC 100 – 240V, 50/60Hz
- Output: 4A per channel, total 8A . Leading edge (forward phase) dimming control.
- Protocol: DMX-512/ EDX (RS-485)
- Dimension: 212 (W) x 118 (H) x 60 (D)mm
- Weight: 0.88 KG
- Fuse: PCB No.: QB18B F1 (Resistive fuse 20A, 250V)
F2 (Resistive fuse 1A, 250V)
F3 (Resettable fuse)

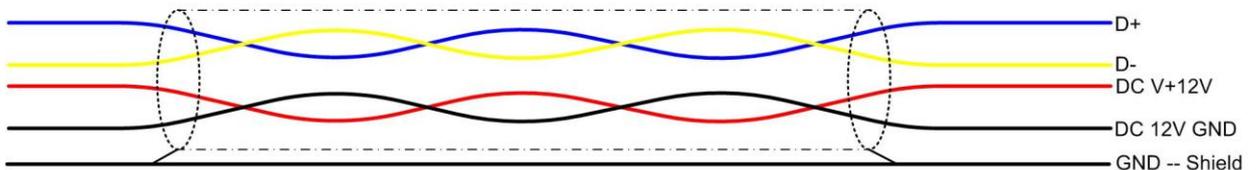
1-3 Wiring Diagram



EDX - Series Cable ---- DMX/RS-485 With DC 12V Power Supply 1A (Max)

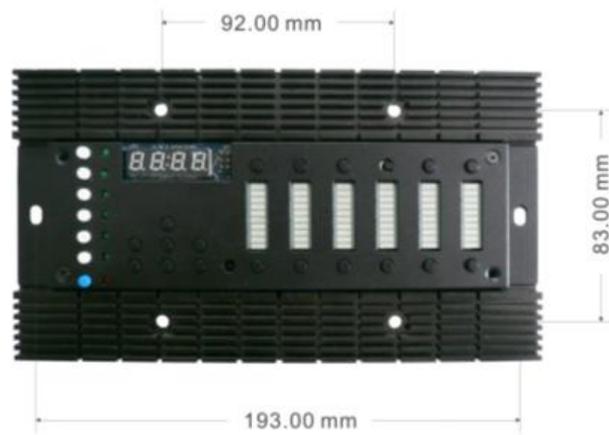
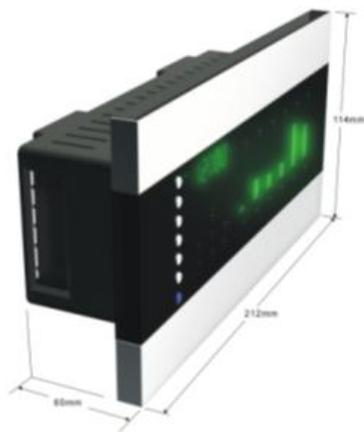


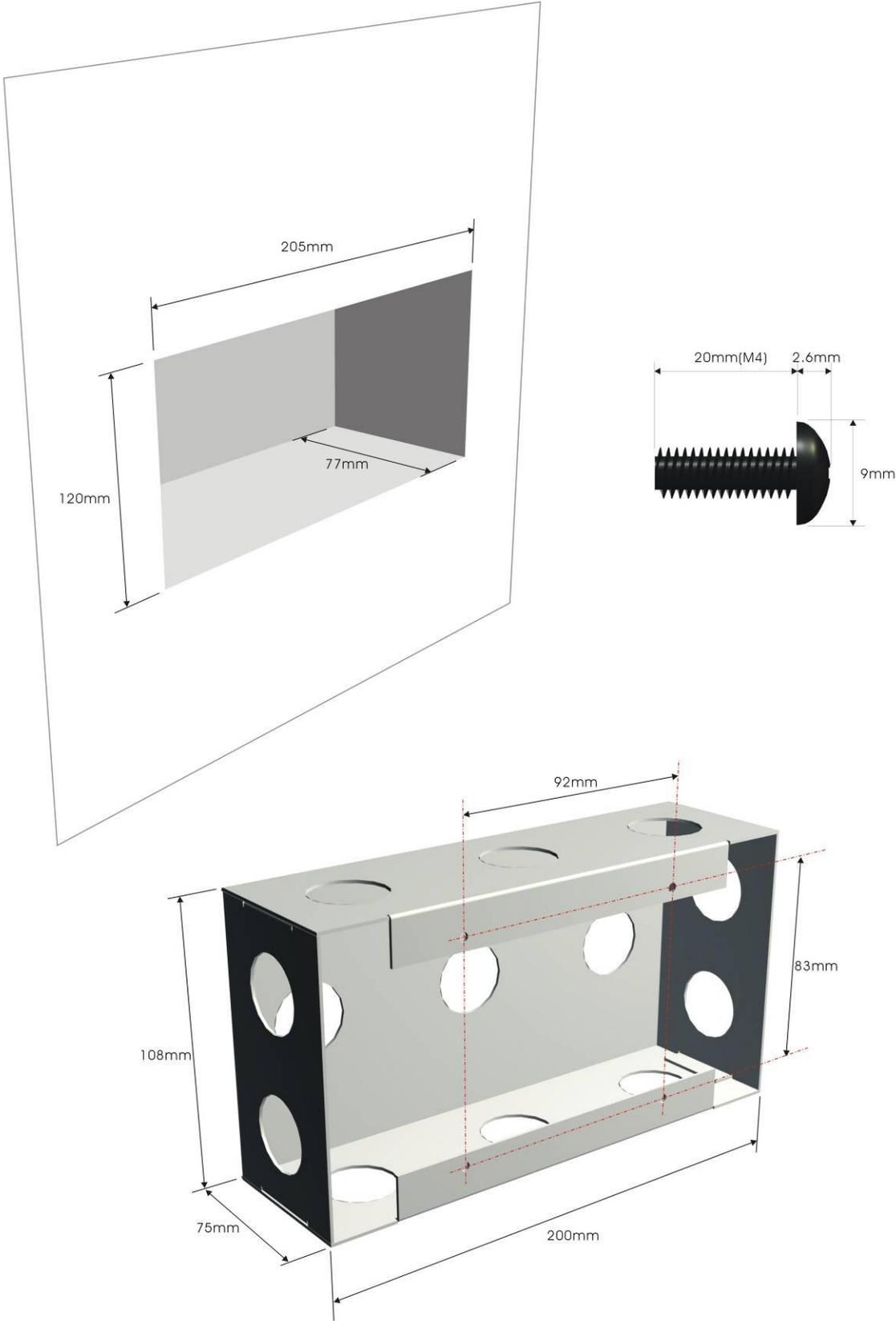
RS-485 Cable With DC 12V Power Supply 1A Max -- 500M



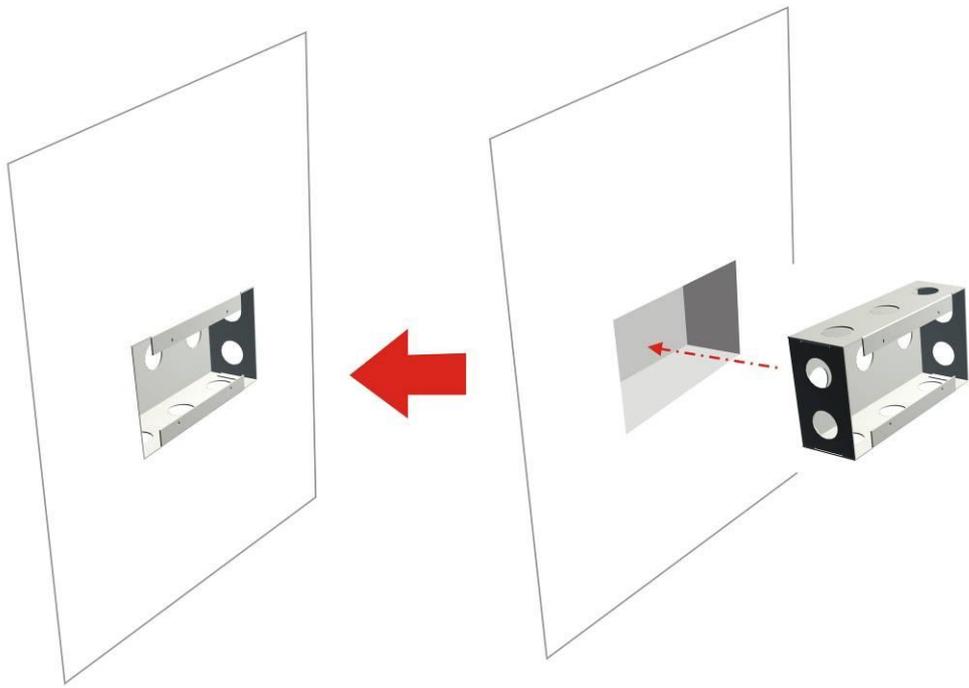
1-4 Installation

1. Please refer chapter 2-10 to set switch mode before connecting no-dimmable lamps. Non-dimmable lamps might be damaged by dimming mode.
2. Please make sure the ambience temperature is under 40°C.
3. Please ensure that wall-mounted area has at least 75mm in depth.

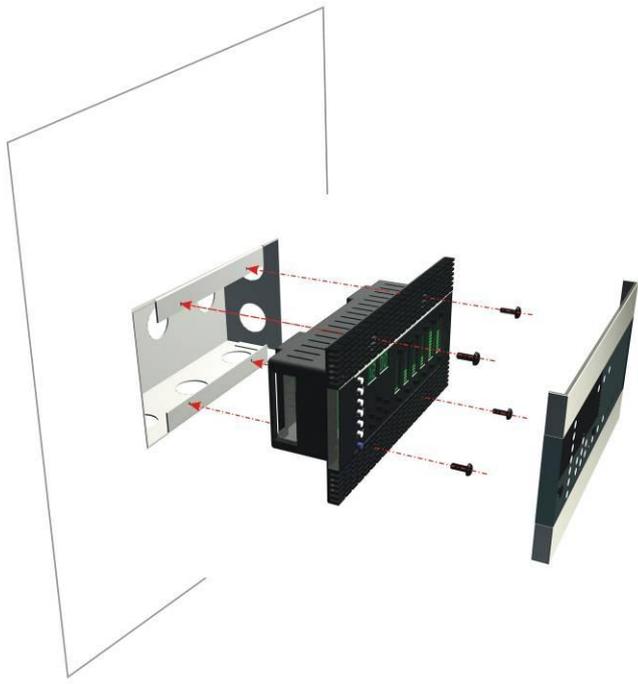




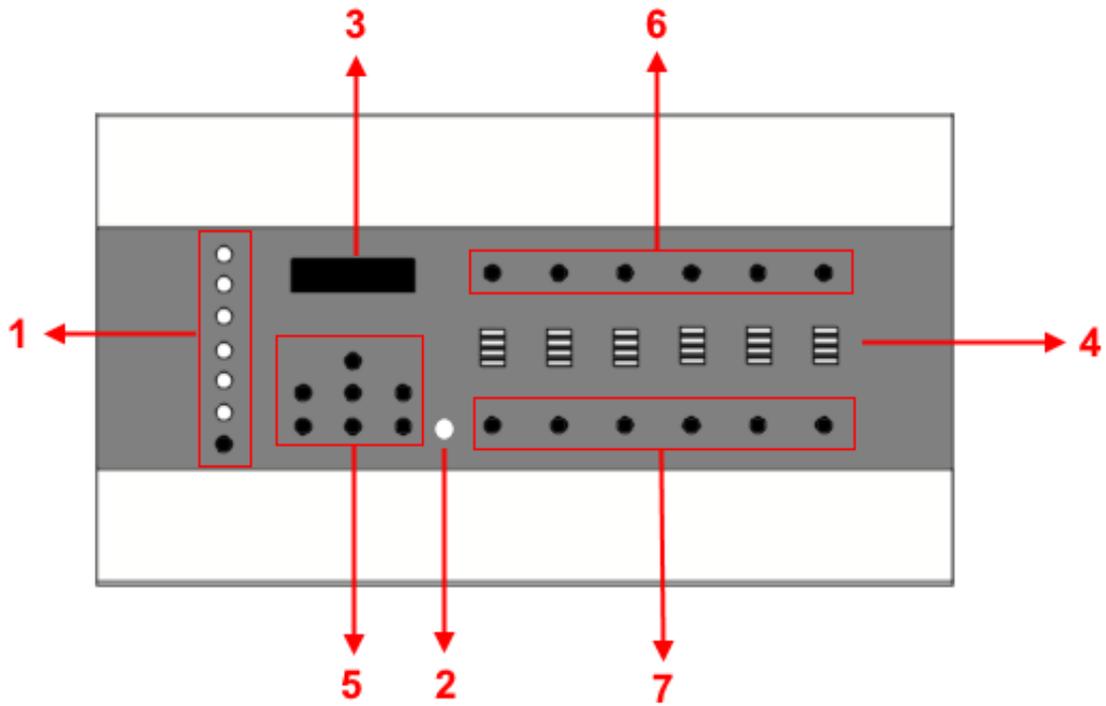
1



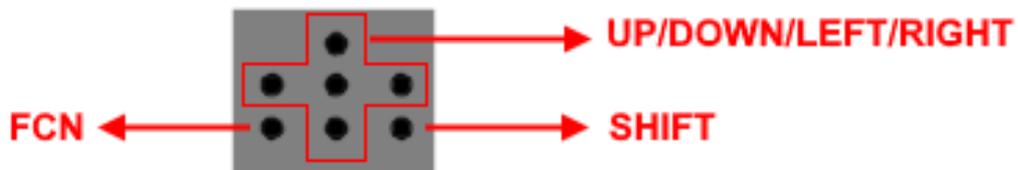
2



1-5 Panel Introduction



1	Scene buttons
2	IR receiver
3	LED
4	Channel dimming value display or other function
5	Function buttons
6	CH1- CH12 dimming value UP
7	CH1- CH12 dimming value DOWN



2 Operations

2-0 EDX System

EDX is a protocol specifically designed for architectural and environmental lighting applications. EDX dimmers or devices are able to store scenes in themselves.

Each EDX device or ECP panel can be specified by a zone number. The scenes stored in EDX devices can be recalled by ECP panels with the same zone number.

For example, EDX devices configured as zone 1 can be controlled (recall scenes) by ECP panel configure as zone 1. EDX devices configured as zone 5 can be controlled (recall scenes) by ECP panel configure as zone 5.

Figure 1: One EDX device with one ECP scene panel

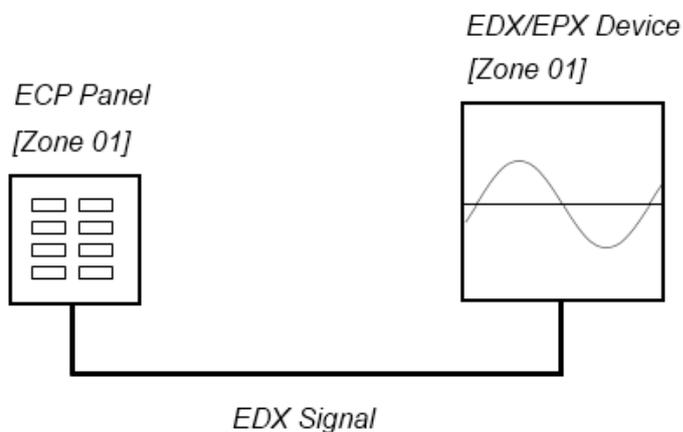
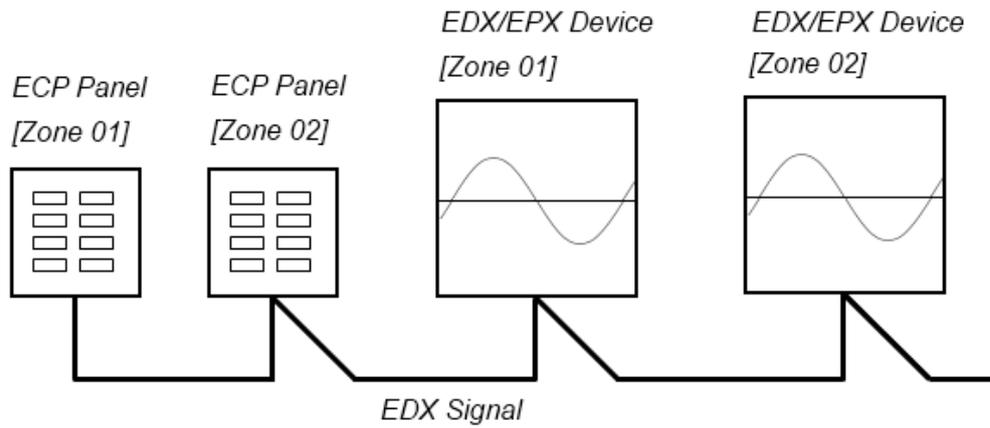


Figure 2: Multiple EDX devices with ECP scene panels



ECP scene panel 1 controls EDX device 1.

ECP scene panel 2 controls EDX device 2.

** If there are both DMX-512 and EDX signal present, DMX-512 signal has the highest priority.*

2-1 Functions

Hold **【FCN】** for 3 seconds and then press **【FCN】** to select a function from the following list:

Display	Combined Button	Function
1001	【FCN】 + 【CH1_UP】	Set ID No.
0101	【FCN】 + 【CH2_UP】	Set Zone No.
d001	【FCN】 + 【CH3_UP】	Set DMX start channel address
Fd	【FCN】 + 【CH4_UP】	Set scene fader time
DL	【FCN】 + 【CH5_UP】	Modify system clock
E-OF	【FCN】 + 【CH6_UP】	Timer on/off
01-d	【FCN】 + 【CH1_DOWN】	Channel dimming mode setting
01-S	【FCN】 + 【CH1_DOWN】	Channel non-dimming/switch mode setting
01-F	【FCN】 + 【CH1_UP】	Channel fluorescent mode setting
E=01	【FCN】 + 【CH2_DOWN】	View and set the timer
EP 30	【FCN】 + 【CH3_DOWN】	Display system temperature
A=0.0	【FCN】 + 【CH4_DOWN】	Display the load current
Ld on	【FCN】 + 【CH5_DOWN】	Display the panel LED on /off
CU	【FCN】 + 【CH6_DOWN】	Select dimming curve
P1 1		Partition setting
Zn on		Partition function on/off

IROn		IR remote control on/off
F5On		SC5/SC6 overlap scene function switch
V5.0		Software version
SnOn		Clock Synchronization on/off

P.S: There are 2 ways to enter function menu.

A. Hold **【FCN】** for 3 seconds, then press **【FCN】** to select functions.

B. Use combined buttons to select a function then press **【FCN】** to enter the setting.

After setting, press **【ENTER】** to store. Press any scene buttons to exit function setting without change.

The system will exit the setting mode after 60 seconds idling.

2-2 Initialization

Hold **【ENTER】 + 【SHIFT】 + 【OFF】** at the same time for 3 seconds to initialize the system.

2-3 DMX Start Channel Address Setting

One DMX-512 universe has 512 channels. EDX-607 must select 12 continuous channels from these 512 channels. The first channel's address of the 12 continuous channels is named as EDX-607's DMX start channel address.

STEP-1: Press **【FCN】 + 【CH3_UP】** at the same time or hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** twice to select function , the screen will display its DMX start channel address **d001** .

STEP-2: Press **【▲】** or **【▼】**, DMX ADR (DMX address) will increase or decrease 10 addresses at one time. Press **【▶】** or **【◀】**, DMX ADR will increase or decrease 1 address at one time.

STEP-3: After setting, press **【ENTER】** to save and exit.

2-4 Zone Setting

About zone: User must set zone code of EDX-607 before using. This code has two parts. The first part is zone number and the second is start channel address.

STEP-1: Press **【FCN】 + 【CH2_UP】** at the same time or hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** once to select function ,the screen will display the zone code **0101**.

STEP-2: Press **【▲】** or **【▼】** to adjust the value; press **【▶】** or **【◀】** to select the editing items.

STEP-3: Press **【ENTER】** to save and exit.

Example:

If zone number is 1 and the start channel is 1.To set zone as 3 and set start channel as 2. The steps are as follows.

1. Press **【FCN】 + 【CH2_UP】** at the same time or hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** once to select function. The screen will display, (The two digits on the right side are blinking.)

01 01

2. Press **【◀】** once, the two digits on the left side are blinking, it will display,

01 01

3.Press **【▲】** twice, it will display,

03 01

4. Press **【▶】** once, The two digits on the right side are blinking, it will display,

03 01

5. Press **【▲】** once, it will display,

03 02

6. Press **【ENTER】** to save and exit.

2-5 Partition Setting

Generally, all channels on EDX-607 can be set to only 1 zone.

To make EDX-607 more flexible, you can assign each channel on EDX-607 to different zones by using partition function.

For example, you assign channel 1 – 3 on EDX-607 to partition 1 and channel 4 – 6 on EDX-607 to partition 2. There are 2 control panels (ECP-106) connected to EDX-607, one is set to zone 1; the other is set to zone 2. If scenes are recalled by ECP-106 of zone 1, only channel 1 – 3 on EDX-607 will change their dimming levels. If scenes are recalled by ECP-106 of zone 2, only channel 4 – 6 on EDX-607 will change their dimming levels. However, if scenes are recalled by EDX-607's panel directly, the dimming levels of channel 1 – 6 will be all changed.

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 12 times until the screen shows **Zn OFF**.

STEP-2: Press **【▲】** to enable partition function, the screen shows **Zn on**

STEP-3: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 12 times until the screen shows **P1 1**.

STEP-4: Press **【▶】** or **【◀】** to select partition no. and press **【CH1- CH12 UP】** to select channels to partition; press **【CH1- CH12 DOWN】** to cancel channels out of partition.

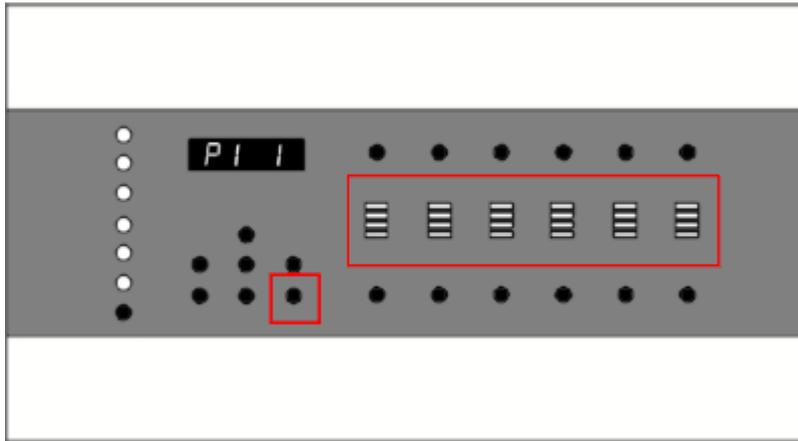
STEP-5: Press **【ENTER】** to save and exit.

Example:

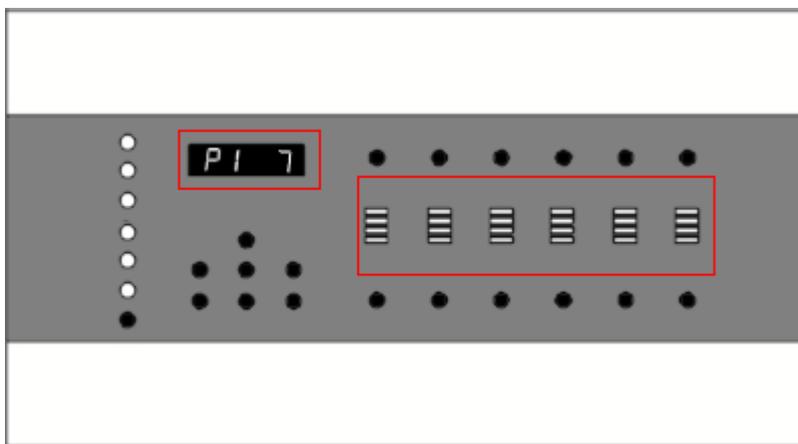
To set channel 1 to partition 2, channel 10 to partition 1 and 3, and other channels to partition 1 (default). The steps are as follows.

Enter **P1 1**. The LED bars of channel 1 ~ 6 show all of them are in partition 1.

Press **[SHIFT]** to check channel 7 ~ 12,



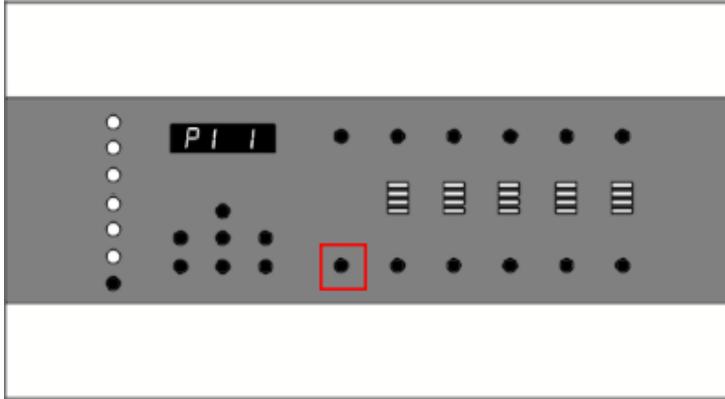
the LED bar of each channel shows that channel 7 – 12 belong to partition 1.



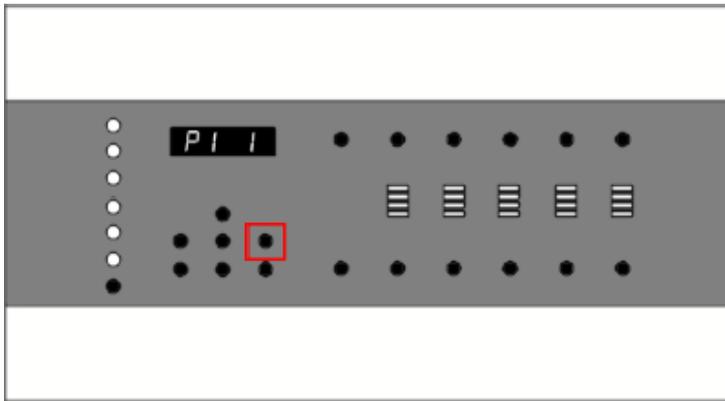
Lite-Puter

Press **【SHIFT】** shift back to channel 1 ~ 6. Press **【CH1_DOWN】** to remove channel 1 from partition.

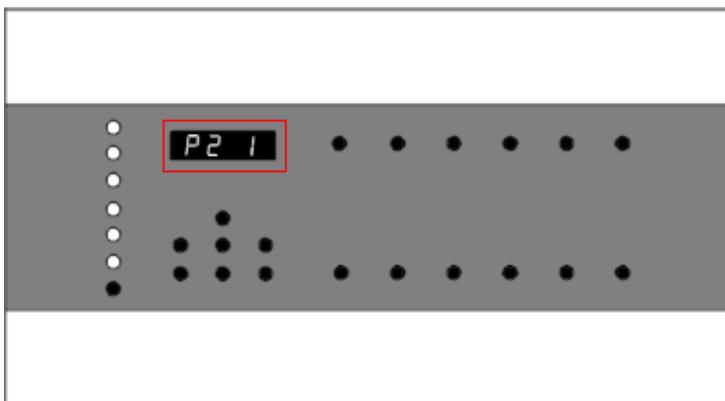
LED bar of channel 1 is blank.



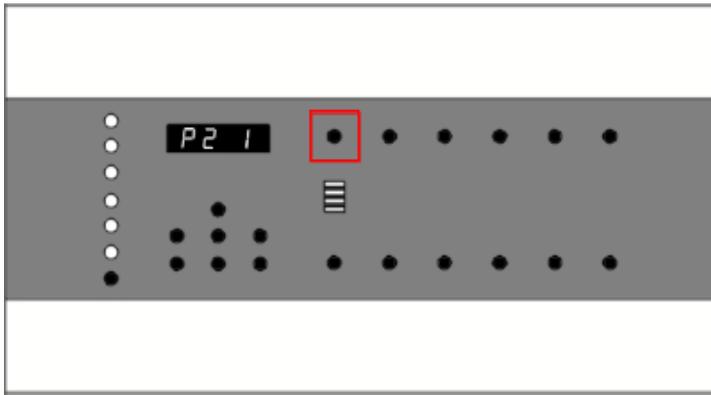
Press **【▶】** to shift to partition 2.



By default, no channel belongs to partition 2

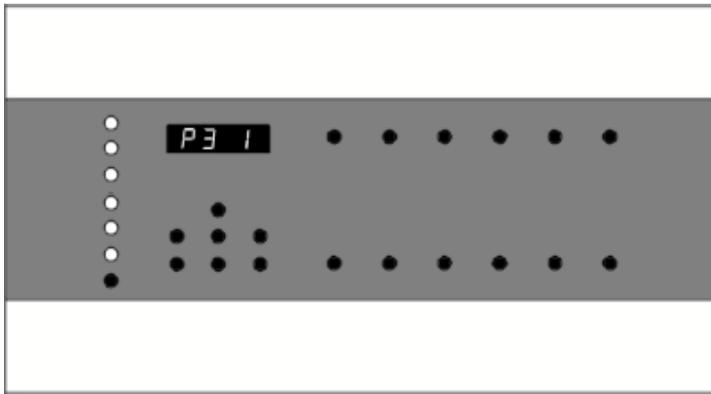


Press **【CH1_UP】** to set channel 1 to partition 2, the LED bar shows that channel 1 is in partition 2 now.

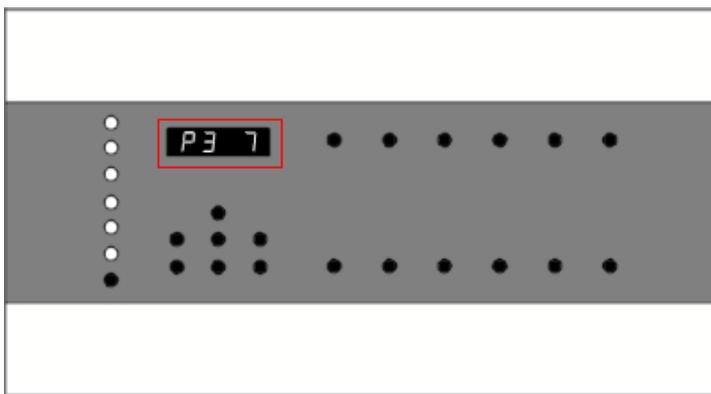


Press **【▶】** once to shift to partition 3.

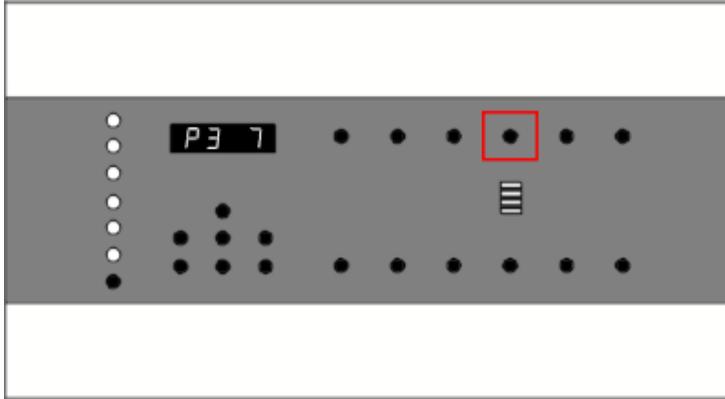
By default, no channel belongs to partition 3



Press **【SHIFT】** shift to channel 7 ~ 12.



8. Press **【CH10_UP】** to set channel 10 to partition 3. (Channel 10 is in partition 1 and 3 simultaneously)



9. Press **【ENTER】** to save and exit.

2-6 ID Number Setting

Each EDX Series device has its ID number (default value: 001). If more than one EDX devices are connected together, each of them has to be set an ID number.

STEP-1: Hold **【FCN】** for 3 seconds or press **【FCN】+【CH1_UP】** at the same time, the screen will display its ID number.

STEP-2: Press **【▲】** or **【▼】** to select the ID number from 1 to 999.

STEP-3: Press **【ENTER】** to save and exit.

2-7 Fade Time Setting

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 3 times to select the function or press **【FCN】+【CH4_UP】** at the same time, the screen will display the fade time (Fd) setting as: **Fd**. Then press **【ENTER】** to enter setting.

STEP-2: Press **【▶】** or **【◀】** to select and view the scenes **FADE** data. Press **【▲】** or **【▼】** to edit the fade time of the corresponding scene.

STEP-3: Press **【ENTER】** to save and exit.

Example :

To set fade time of scene 2 from 1 second to 5 seconds:

Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 3 times to select the function or press **【FCN】 + 【CH4_UP】** at the same time, the screen will display, **Fd**.

Press **【ENTER】**, it will display, **0F 01**

Press **【▶】** 2 times to select scene 2 as **02 01**.

Press **【▲】** 4 times or hold **【▲】** to set fade time to 5 seconds as **02 05**

Press **【ENTER】** to save and exit.

2-8 System Clock Setting

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 4 times to select the function or press **【FCN】 + 【CH5_UP】** at the same time, the screen will display the Clock Setting as

CL. Then press **【ENTER】** to modify the clock, it will display, **00:00**.

STEP-2: Press **【▲】** or **【▼】** to edit the time. Press **【▶】** or press **【◀】** to switch between hour and minute.

STEP-3: Press **【ENTER】** to save and exit.

Example:

To set the clock to 10:24, the steps are as follows.

1. Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 4 times to select the function or press **【FCN】 + 【CH5_UP】** at the same time, the screen will display, **CL**

2. Press **【ENTER】** to edit the clock, it will display, **00:00**

3. Press **【◀】** once shift to hour setting and then press **【▲】** 10 times or hold **【▲】** to set hour as **10:00**

4. Press **【▶】** once, it will switch to minute setting as **10:00**

5. Press **【▲】** 24 times or hold **【▲】** to set minute as **10:24**

6. Press **【ENTER】** to save and exit.

2-9 Timer ON/OFF

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 5 times to select the function or press **【FCN】+【CH6_UP】** at the same time, the screen will display timer status as **E-OFF**.

STEP-2: Press **【▲】** to turn on timer ;press **【▼】** to turn it off.

STEP-3: Press **【ENTER】** to save and exit.

2-10 Dimming /Switch /Fluorescent Mode Setting

When dimming is unnecessary or the lamp is not dimmable, users can set the channel to switch mode and control it either 100% or 0%.

If any channel is set in switching mode, it will be turned 100% on immediately when the input is over 51% and turned off immediately when the input is less than 20%.

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 6 times to select the function or press **【FCN】 + 【CH1_DOWN】** at the same time, the screen will display, **01-d**

STEP-2: Press **【▶】** or **【◀】** shift from channel 1 to channel 6. Press **【SHIFT】** shift from channel 7 to channel 12. Press **【CH1- CH12 UP】** to set channel as switch mode(S) or fluorescent mode(F); press **【CH1- CH12 DOWN】** to set channel as dimming mode(d) or switch mode(S).When you view each channel's mode status, you can press **【▲】** to set it as dimming mode(d) or fluorescent mode(F), press **【▼】** to set it as dimming mode(d) or switch mode(S)

STEP-3: Press **【ENTER】** to save and exit.

Example:

Set channel 1 and 10 to switch mode, channel 2 as fluorescent mode and other channel to dimming mode. The steps are as follows.

1. Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 6 times to select the function or press **【FCN】+【CH1_DOWN】** at the same time, the screen will display **01-d**, it means channel 1 is in dimming mode .

2. Press **【CH1_DOWN】** or press **【▼】** to set channel 1 as switch mode **01-S**

3. Press **【CH2_UP】** or press **【▲】** to set channel 2 as fluorescent mode **02-F**

4. Press **【SHIFT】** shift to channel 7 to 12, the screen will display **07-d**

5. Press **【CH10_DOWN】** or press **【▶】** or **【◀】** to select channel 10 and then press **【▼】** to set channel 10 as switch mode **10-S**

6. Press **【ENTER】** to save and exit.

2-11 Display System Temperature

Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 8 times to select the function or press **【FCN】+【CH3_DOWN】** at the same time, then the screen will display the current temperature.

Press **【ENTER】** to exit.

Example:  means the current temperature is 30°C.

When the internal temperature over 62°C, EDX-607 will limit the output and decrease to 0% smoothly till the temperature below 55°C ; when it over 65°C, EDX-607 will stop output immediately.

2-12 Display Current Load

Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 9 times to select the function or press **【FCN】 + 【CH4_DOWN】** at the same time, the screen will display the current of present load.

Press **【ENTER】** to exit.

2-13 Set Timer

Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 7 times to select the function or press **【FCN】 + 【CH2_DOWN】** at the same time, the screen will display the timing scene setting as

E01

2-13-1. Add Timer

STEP-1: Press **【FCN】 + 【CH2_DOWN】** , the screen will display **E01**,"01" means the first record,

press **【ENTER】** to enter the current record. If it is empty (no record), it will display **.....**.

STEP-2: Press **【▲】** and **【▼】** to modify, press **【▶】** or **【◀】** to select the hour, minute, scene(SC), fade time (Fd) and Zone(Zn).

Note: When the timer on, EDX-607 will recall the scene automatically.

STEP-3: Press **【ENTER】** to save and exit.

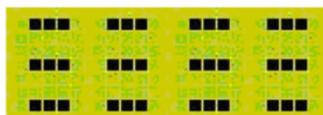
STEP-4: f you need add more record, press **【▶】** to add another record and the setting steps as above.

2-13-2. Edit Timer

Select the record number need to edit. Press **【ENTER】** to edit the current record. The following steps are the same as adding record.

2-13-3. Delete Timer

Select the record number and press **【▼】** for 3 seconds to delete the record. The screen will show as below, it means the record was deleted.



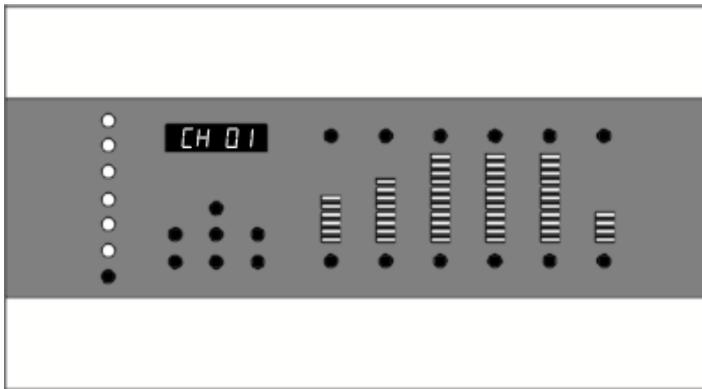
2-14 Scene Setting

Press **【CH1- CH6 UP/ DOWN】** to adjust 12 channels' the dimming value. There are only 6 channels displayed on the panel. Press **【SHIFT】** shift between channel 1 ~ 6 and channel 7 ~12. EDX-607 can store 12 scenes.

Example:

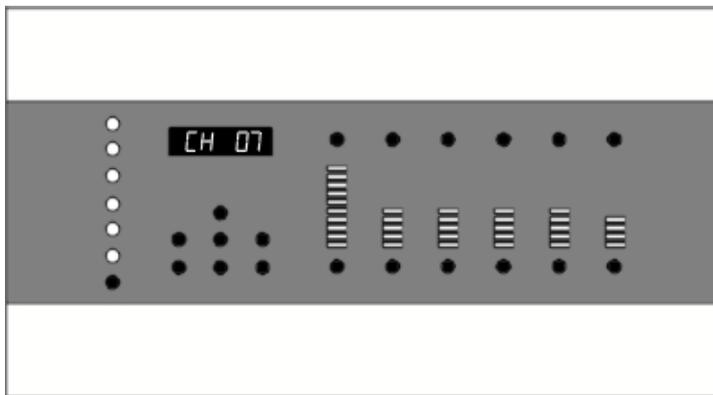
The current default channels are channel 1 to 6, press **【SHIFT】** the screen will display as below.

【CH1- CH6 UP/ DOWN】 can adjust the dimming value of channel 1 ~ 6 correspondingly.



Press **【SHIFT】** shift to channel 7 ~ 12, the screen will display as below.

【CH1- CH6 UP/DOWN】 can adjust the dimming value channel 7 ~ 12 correspondingly.



While edit the dimming value of channel 4, the screen will display as  and the right side of which will display the dimming value. The dimming values also showed on the LED bar.

Hold a scene button for 3 seconds to save current scene.

To save scene 7 to scene 12 is to press **【SHIFT】** + scene button for 3 seconds.

2-15 Scene Recall

Press scene buttons **【1】 ~ 【6】** to recall the scene 1 to scene 6 correspondingly. The LED nearby the scene button will be lightened.

Press **【SHIFT】 + 【1】 ~ 【6】** to recall scene 7 to 12.

If the scene was set as FADE:

Press scene button once, the scene will be recalled in fade mode.

Press scene button twice quickly, the scene will recalled immediately.

2-16 Memory & Button Lock/Unlock Function

Press **【FCN】 + 【SC1】** at the same time to lock/unlock memory keys. Press **【FCN】 + 【OFF】** at the same time to lock/unlock all the button. In memory lock status, setting save is useless; in button lock status, all buttons are useless.

2-17 Adjust and View Dimming Value

1. Press **【▶】** or **【◀】** to view dimming value of each channel.
2. Press **【▲】** to increase all channels' dimming value, or press **【▼】** to decrease all channels' dimming value.
3. Press **【ENTER】** the dimming value of current channel will increase or decrease at a speed of 25%.
4. Hold **【DOWN】** button of current channel, and then press **【UP】** the current channel' dimming value will be 0% at once. Repeat it, the dimming value of the current channel will be 100% at once.
5. Hold **【UP】** then press **【DOWN】** has the same function as step 4.

2-18 Panel LED on/off Setting

This function is to set whether LED screen be turned off after press **【OFF】**

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 10 times to select the function or press **【FCN】+【CH5_DOWN】** at the same time, the screen will display the status of LED screen **LED on**

STEP-2: Then press **【▲】** to turn on LED or press **【▼】** to turn it off.

STEP-3: Press **【ENTER】** to save and exit.

Note: After turn off the LED screen, it will be turned on again if press any button.

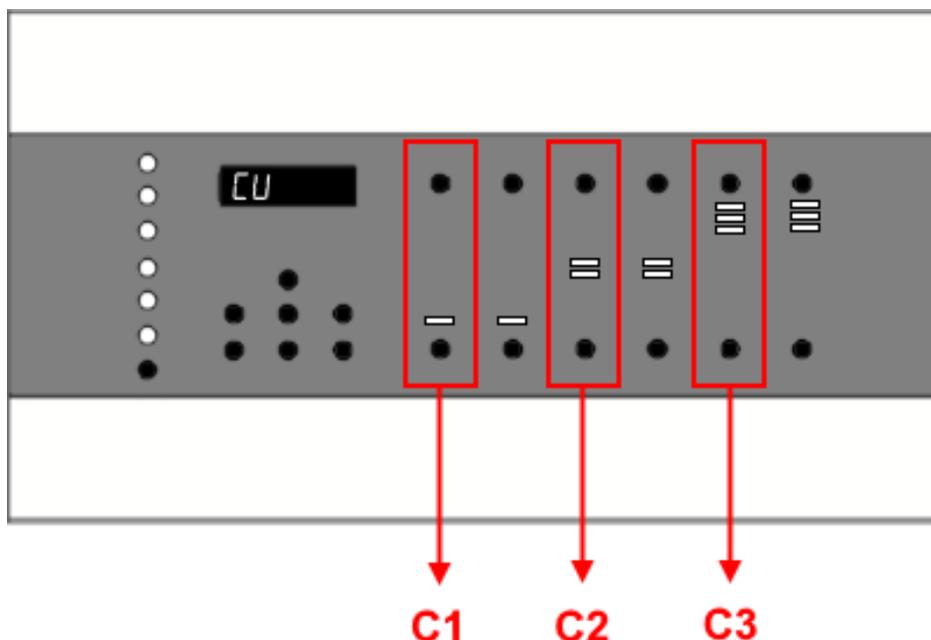
2-19 Dimming Curve Setting

Each channel can choose one of three dimming curves.

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** 11 times to select the function or press **【FCN】 + 【CH6_DOWN】** at the same time, the screen will display, **DU**

STEP-2: Press **【CH1- CH6 UP/ DOWN】** to choose the dimming curves of channel 1~12. The dimming curve status of each channel shows on corresponding LED bar as below,

STEP-3: Press **【ENTER】** to save and exit.



2-20 Enable/Disable Partition Function

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** until the screen shows **Zn on**.

STEP-2: Press **【▲】** to turn on partition function , press **【▼】** to turn it off.

STEP-3: Press **【ENTER】** to save and exit.

2-21 Check Software Version

Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** until the screen shows **U1.0** .

LED screen shows the software version as **U1.0** .

2-22 Enable/Disable IR Remote Control

STEP-1: Hold **【FCN】** for 3 seconds to enter function menu and then press **【FCN】** till the screen displays **IRcon**.

STEP-2: Press **【▲】** to turn on IR remote control(EDX-607 under the IR remote control)or press **【▼】** to turn IR the control (EDX-607 out of IR remote control) .

STEP-3: After setting, press **【ENTER】** to save and exit.

2-23 Enable/Disable SC5/6 Overlap Scene Function

Generally, when one scene is recalled, the previous scene will be replaced. This function is for overlap scene 5 or scene 6 to another scene. If you recall one of scene 1 – 4 first, and then recall scene 5 or scene 6, the later one will overlap to the previous one, so two scenes are recalled at the same time. If there is any channel that is in both scenes, it will output at the higher dimming value.

For example, if scene 5 is overlapped to scene 4, if channel 1's dimming value of scene 4 is 40% and channel 1's dimming value of scene 5 is 20%, it will remain 40%; if channel 1's dimming value of SC4 is 40% and channel 1's dimming value of scene 5 is 85%, it will change to 85%.

STEP-1: Press **【FCN】** for 3 seconds, then press **【FCN】** till the screen displays **F5On**.

STEP-2: Press **【▲】** to turn on the function; press **【▼】** to turn it off .

STEP-3: Press **【ENTER】** to save and exit.

Example:

SC1: CH1=50%, CH2=80%, CH3=0%....

SC5: CH1=80%, CH2=0%, CH3=100%....

SC6: CH1=100%, CH2=100%, CH3=100%....

When users recall SC1 first and then recall SC5, CH1 will output 80%, CH2 will output 80% and CH3 will output 100%.

When users recall SC1 first, then SC5 and last SC6, CH1 will output 100%, CH2 will output 100% and CH3 will output 100%.

2-24 Clock Synchronization

STEP-1: Hold **【FCN】** for 3 seconds to function menu, then press **【FCN】** till the screen shows **SnOn** (if clock synchronization is enable) .

STEP-2: Press **【▲】** to enable clock to enable clock synchronization, the screen shows **SnOn** ;
press **【▼】** to disable clock synchronization, the screen shows **SnOff** ; press **【ENTER】** to return.

If clock synchronization is enabled, all EDX-607s in the same zone will be synchronized at 12:00 every day.

Limited Warranty

The Coverage :

1. Lite-Puter is only responsible for the Product itself.
2. The Product must be installed according to the National electrical safety requirements and the user manual. Avoid installing the Product in extreme environment or temperature.
3. The limited warranty commences on the date of purchase. During the limited warranty period, which is two years, Lite-Puter guarantees repairing any material or manufacturing defects.

The Exclusion :

1. Any damage or fault caused by improper usage, accident and disaster affirmed by Lite-Puter, includes but not limited to:
 - a. Not operated according to the National electrical safety requirements
 - b. Not installed according to the user manual of Lite-Puter
 - c. Wrong voltage input
 - d. Not maintained in the required temperature
 - e. Artificial damage
 - f. Improper installation, adjustment, heat radiation, impact and unauthorized maintenance
 - g. Fire and flood
 - h. Earthquake, thunder attack, volcanic eruption, tsunami and any factors beyond human control
2. The problems arisen from integrating the Product with other brand products.
3. Labor costs and expenses incurred in installation, dismounting, transport, adjustment, wiring, reinstallation and reset of the Product.
4. Please deliver the defective product to Lite-Puter distributors or Lite-Puter factory.

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