EDX-607
6 Channels Lighting Controller
【User Manual】
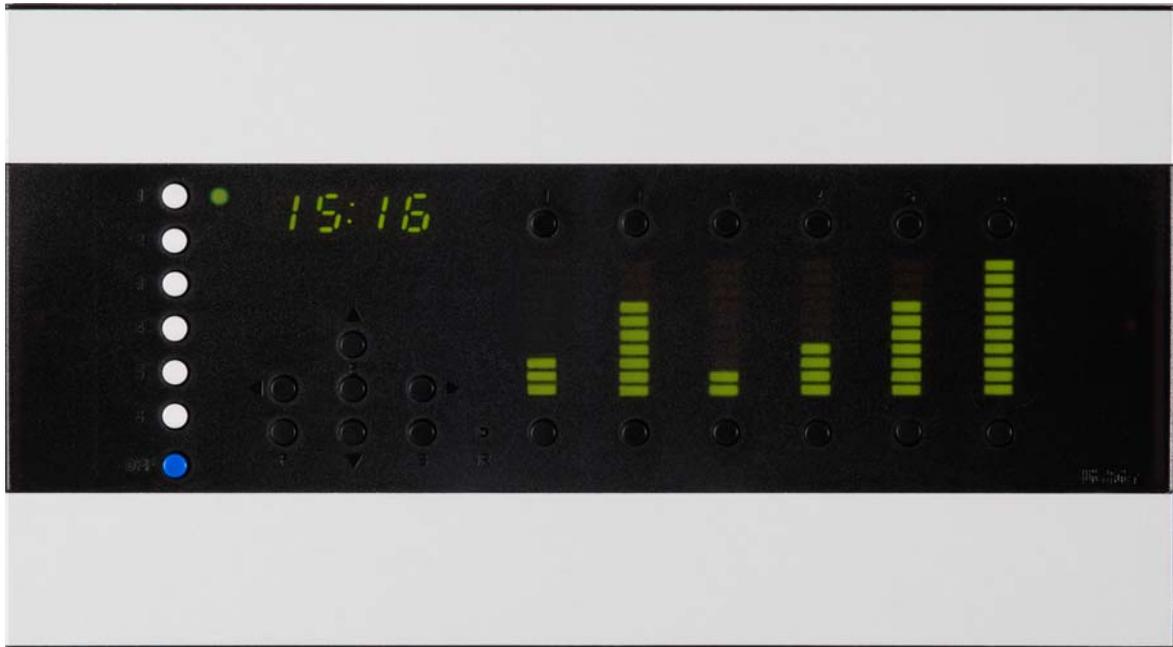
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Chapter 1.   Introduction

1-1   Feature

- 6 channels, total current 16A. The maximum load capacity of each channel can be up to 4 A.
- The master panel can store 12 groups of scenes; each scene can store 12 channels, display 12 channels dimming value and transmit 12 channels DMX data.
- Equipped with IR remote controller, it can recall 6 scenes, change any channel dimming level and edit 6 scenes directly. You can also view current zone number and set fade in/fade out time by IR remote controller.
- C1, C2, C3 liner dimming curve.
- Fade in/fade out time setting.
- Timer control can execute preset lighting scenes periodically and automatically (24hours).
- Each channel can be set as dimming or non-dimming.
- Display system temperature and detect temperature automatically. When the internal temperature is over 62°C, it will alert and limit the output to 50%. Over 65°C it will stop output automatically.
- When the total current over 25A, EDX-607 will stop outputting and press【OFF】 button to reset; when the total current over 20A, EDX-607 will limit the output till the total current lower than 16A and press any scene button to reset.
- Can be controlled and monitored by PC through Lite-Puter's Ethernet interface (DP-E450 ,etc).
- Can be connected to ECP series control panels.
- Button lock/unlock.

1-2   Specification

- Power   Input ：AC90-AC240V

      Output：4A per channel, Total Max. 16A. Resistant load only.
- Protocol: DMX-512/ RS-485
- Dimension: 212 (W) x 118 (H) x 60 (D)mm
- Weight: 0.8 KG

1-3   Wiring Diagram

Internal wiring

POWER
Earth/Ground
Neutral
Hot/Live

16A(NFB)
(MCB)

LOAD4
LOAD5
LOAD6
LOAD1
LOAD2
LOAD3

RS-485 CONTROL
IN/OUT
DMX OUT
+12V
D+
D-
GND
GND
D+
D-
-12V
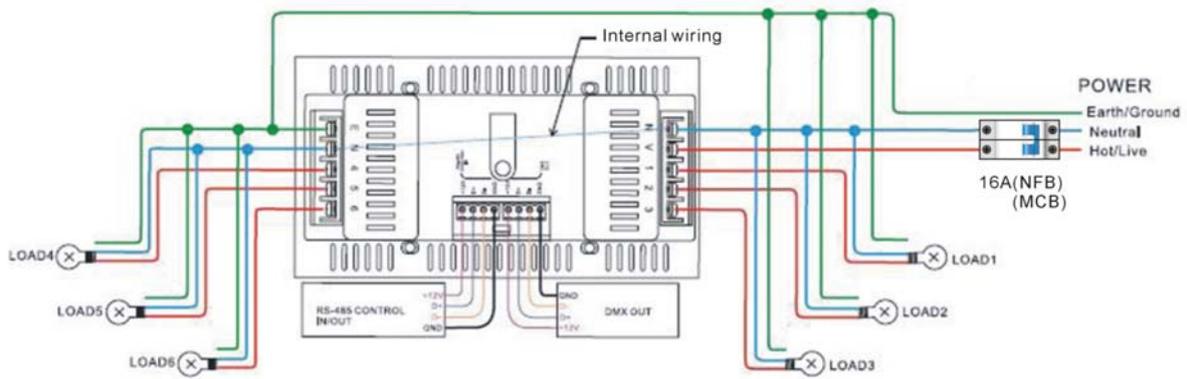
EDX - Series Cable ---- DMX/RS-485 With DC 12V
Power Supply 1A (Max)

D+
D- (Twist Pair-1 -- Data)
V+12V
GND (Twist Pair-2 -- Power Supply)
GND
Shield
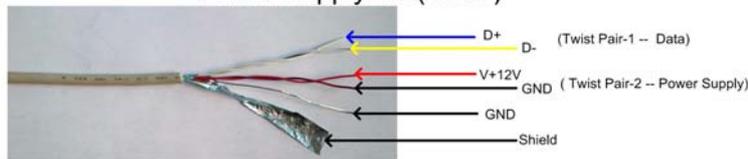
RS-485 Cable With DC 12V Power Supply 1A Max -- 500M

D+
D-
DC V+12V
DC 12V GND
GND -- Shield

1-4   Installation

118mm
212mm
60mm

92.00 mm
83.00 mm
193.00 mm

205mm

112mm

77mm

20mm(M4)   2.6mm

9mm

92mm

83mm

108mm

75mm

200mm

1

2

1-5   System Wiring Diagram
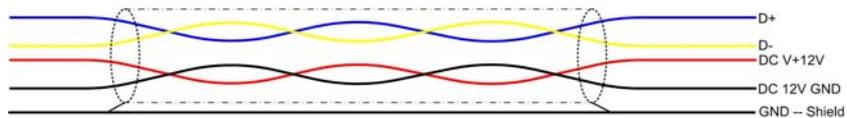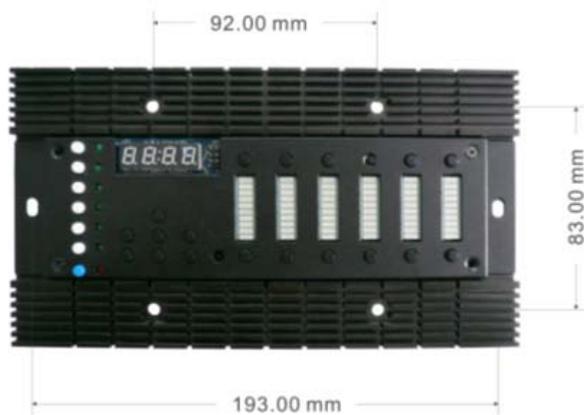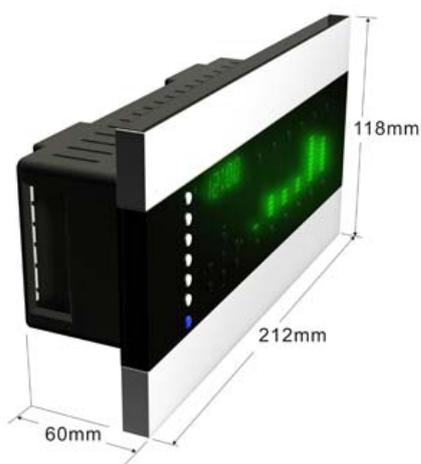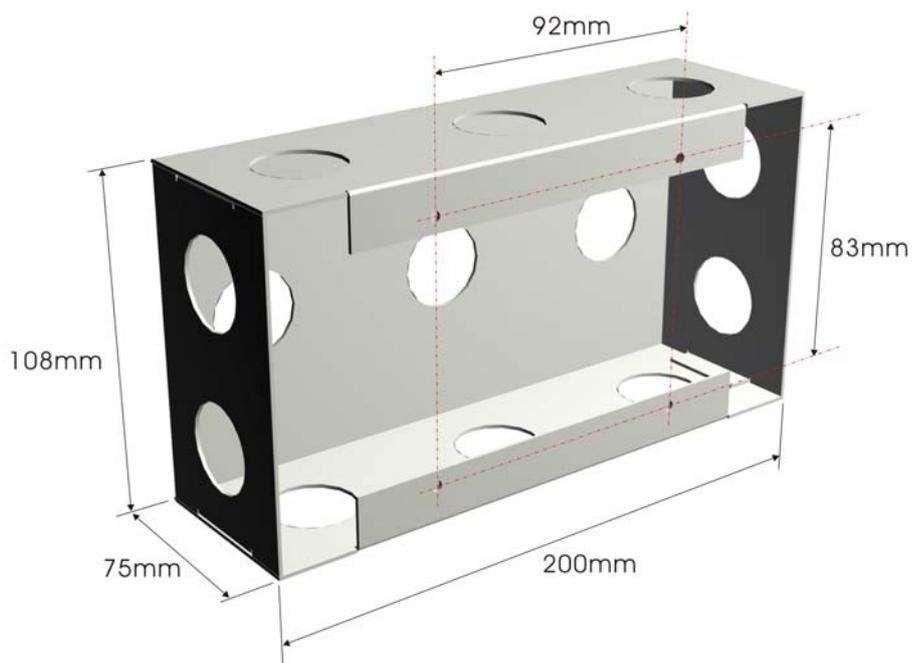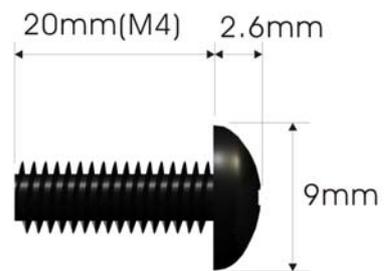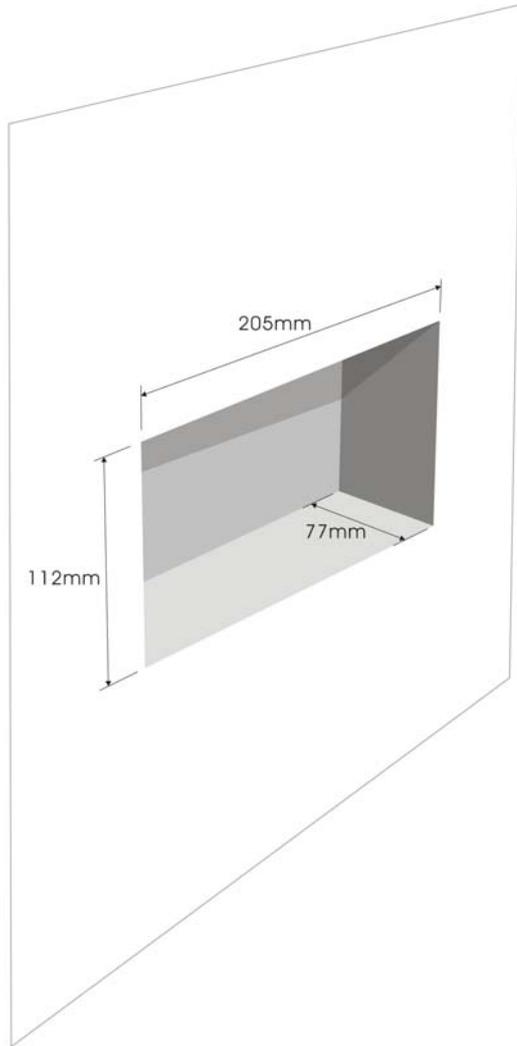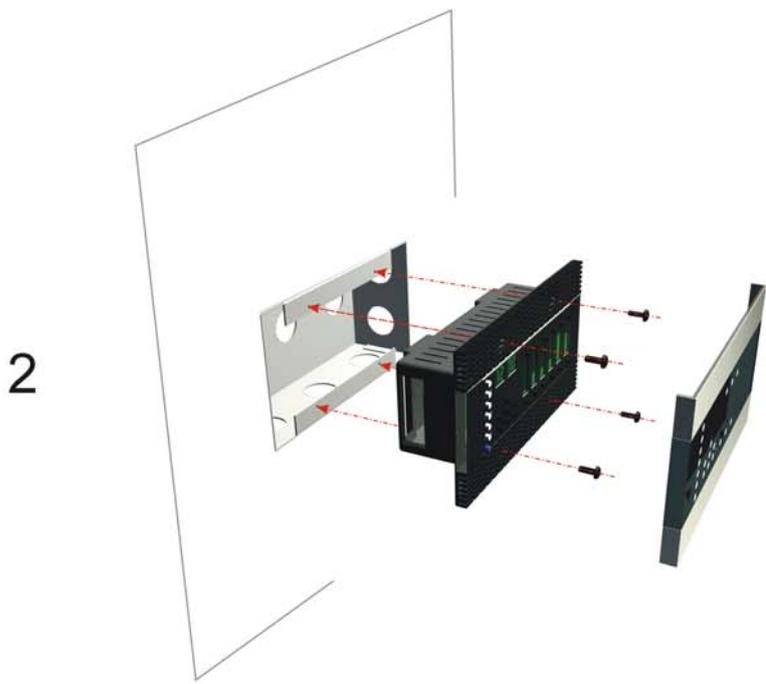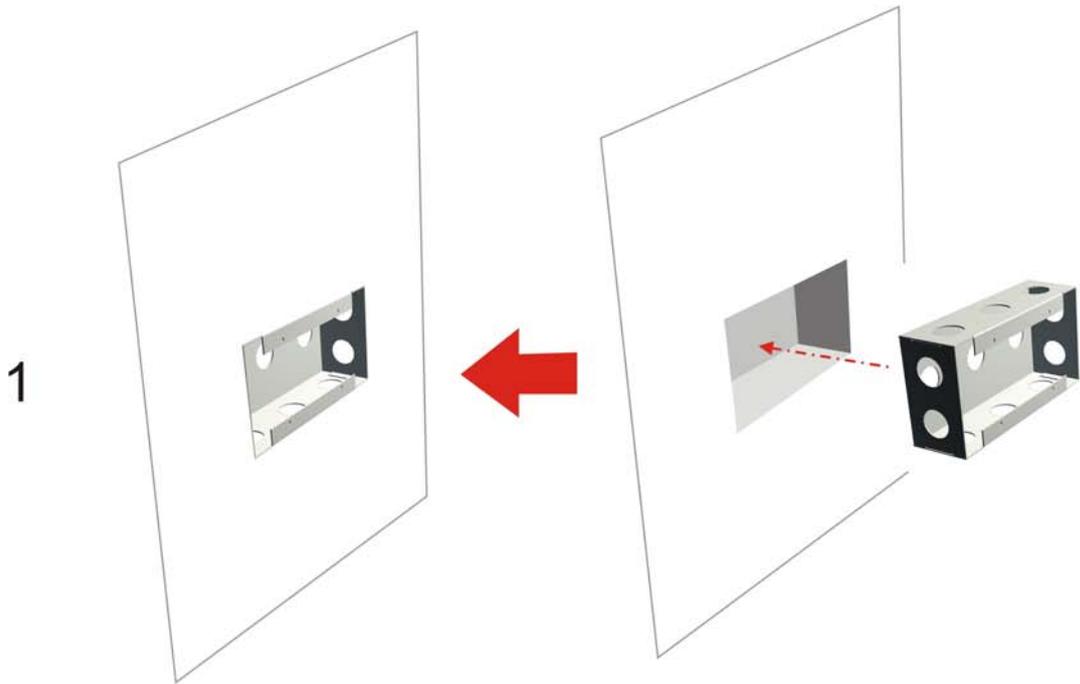
Architectural Lighting Control System
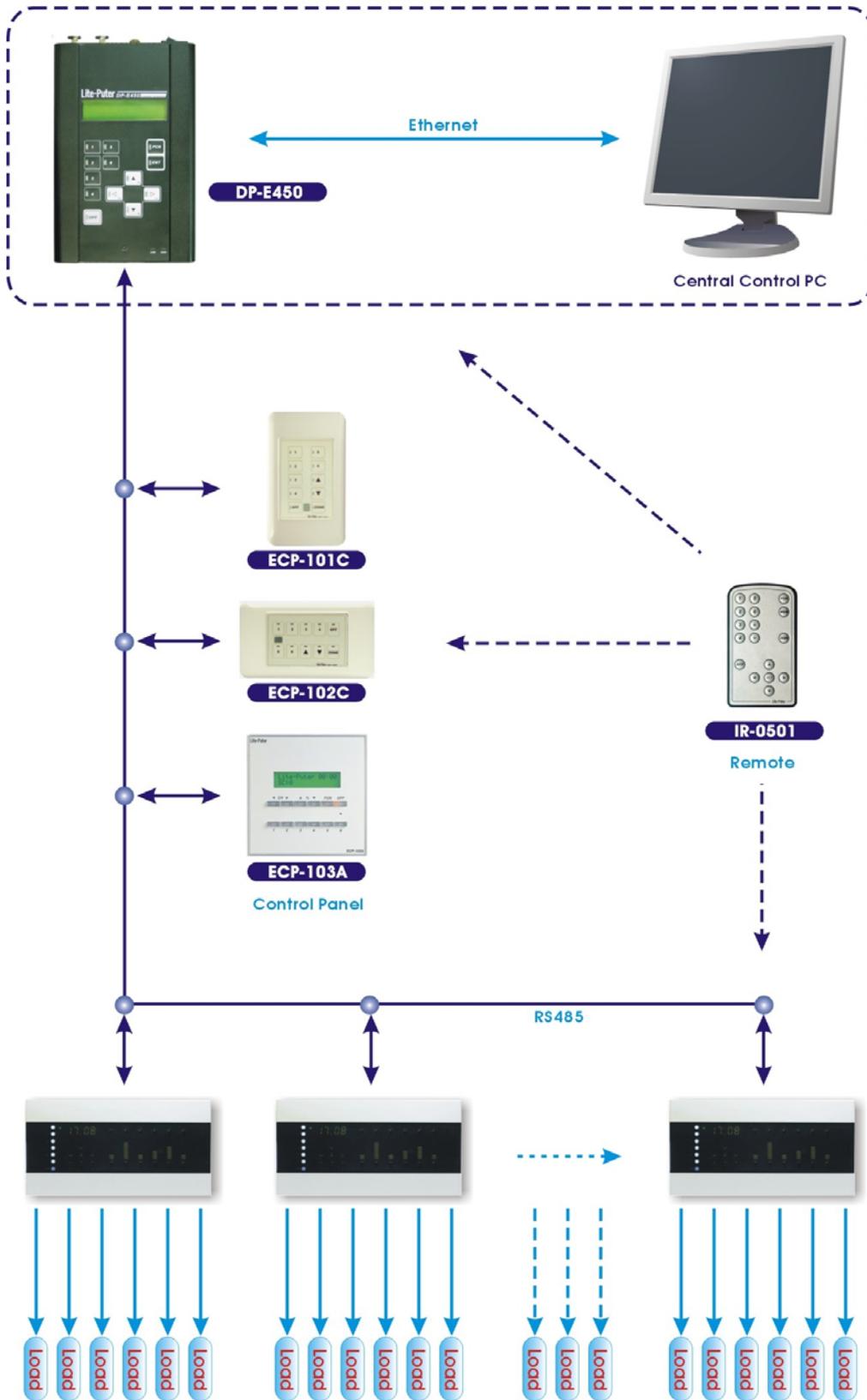
1-6   Panel introduction
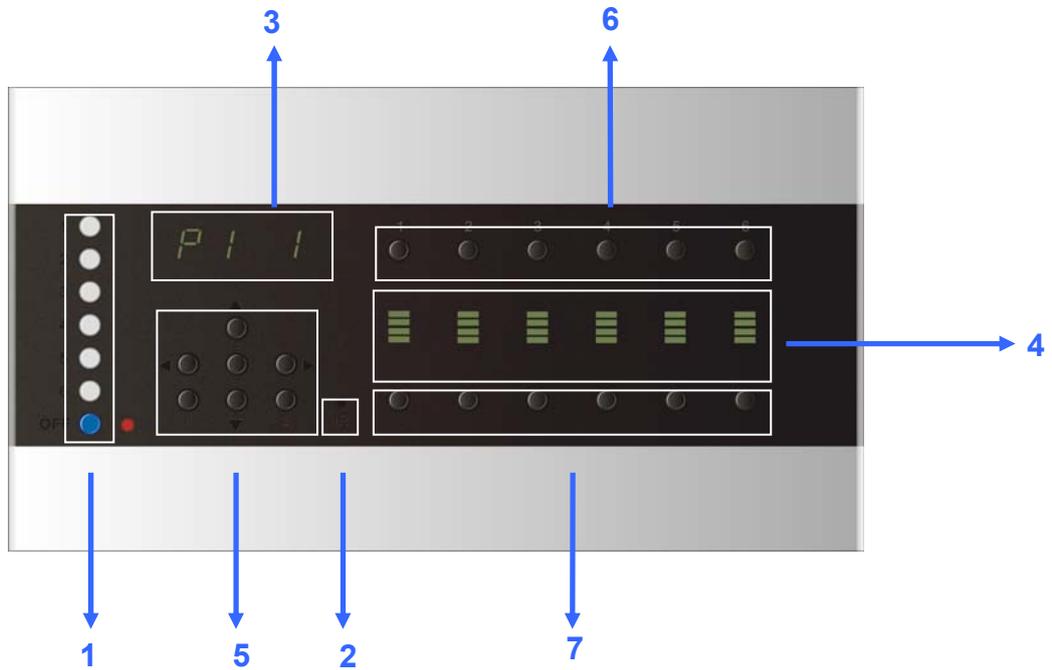
1	Scene buttons
2	IR receiver
3	LED
4	Channel dimming value display or other function meaning
5	Function buttons
6	CH1- CH12 dimming value UP
7	CH1- CH12 dimming value DOWN

Chapter 2.   Operation Description

2-1   Function Introducing

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

Display	Combined Button	Function
I001	【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
CL	【FCN】+【CH5_UP】	Modify system time
t-OF	【FCN】+【CH6_UP】	Timer on/off
01-d	【FCN】+【CH1_DOWN】	Channel dimming/switch(non-dimming) mode setting
t=01	【FCN】+【CH2_DOWN】	View and set the timer
tP 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
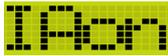
`IRon`		IR remote control on/off
`F5on`		SC5/SC6 overlap scene function switch
`U1.0`		Software version

P.S: There are 2 ways to enter function menu.
One is long hold【FCN】for 3 seconds, then press【FCN】to select functions. The other is using combined buttons to select certain 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

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

2-3 DMX Start Channel Setting

The standard DMX console can output 512 channels, while 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 long 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

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

STEP-1 Press【FCN】+【CH2_UP】at the same time or long 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 long 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.)

`0101`

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

`0101`

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

This function is to set partition of each channel.

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

STEP-2 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-3 Press 【ENTER】 to save and exit.

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

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

2. Press【S】to check channel 7 ~ 12, the LED bar of each channel shows all of them belong to partition 1.

【S】
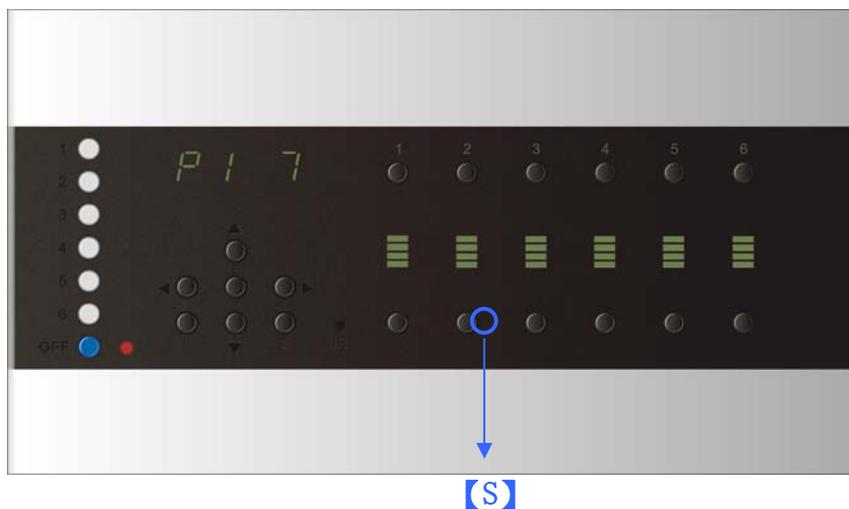
3. Press 【S】 shift to channel 1 ~ 6, press 【▶】 once shift to partition 2.

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

【CH1_UP】

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

6. Press【S】 shift to channel 7 ~ 12.

7. Press【**CH10_UP**】to set channel 10 to partition 3.

8. Press【**ENTER**】to save and exit.

2-6 ID_NO 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 ID number.**

STEP-1 Long 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 Long 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. The steps are as follows.

1. Long 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`.

2. Press 【ENTER】, it will display, `OF 01`

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

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

5. Press【ENTER】to save and exit.

2-8   System Clock Setting

STEP-1 Long 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, `0 0:0 0`.

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.Long 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 long hold【**▲**】to set hour as `10:00`

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

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

6.Press【**ENTER**】to save and exit.

2-9 Timer ON/OFF

STEP-1 Long 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 `t-OF`.

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

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

2-10 Dimming /Switch (Non-dimming) Mode Setting

When dimming is unnecessary, users can set the channel to switch mode and control it with either 100% on or totally off.

■ **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%. This function is avoid fixture blink.**

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

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

Example:
Set channel 1 and 10 to switch mode. The steps are as follows.
1.Long 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_UP】 or press【▲】to set channel 1 as switch mode `01 -S`

3.Press 【S】shift to channel 7 to12, the screen will display `07- d`

4.Press【CH10_UP】 or press 【▶】or【◀】to select channel 10 and then press 【▲】to set channel 10 as switch mode `10- S`

5.Press【ENTER】to save and exit.

2-11　Display system temperature

Long 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: `tP 30` 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

Long 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

> In order to execute the scenes periodically and automatically, we advise users to save daily-used scenes into "Timing Scene".

Long 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 `t=01`

1. Add record

STEP-1 Press【FCN】+【CH2_DOWN】, the screen will display `t=01`,

"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 If you need add more record, press【▶】to add another record and the setting steps as above.

2. Edit record

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

3. Delete record

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.
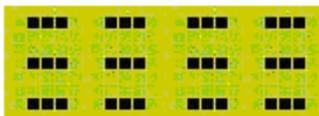
2-14   Scene Setting

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

Example:

1. The current defaulted channels are channel 1 to 6, press【S】 the screen will display as below.【CH1- CH6 UP/ DOWN】can adjust the dimming value of channel 1 ~ 6 correspondingly.

2. Press【S】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.

3. Long hold scene button for 3 seconds to save current scene. The way for save scene 7 to scene 12 is press【SHIFT】+ scene button for 3 seconds.
    For example,

If save the channel setting to scene 2, the steps as below.

Long hold scene button【2】for 3 seconds, the screen will show ▬▬ 02, which means

storing the current setting to scene 2.

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 call out in fade mode.**
> **Press scene button twice quickly, the scene will call out 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】to turn off all channels.

STEP-1 Long 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 `Ld 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 Long 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, `CU`

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.

C1
Curve

C2
Curve

C3
Curve
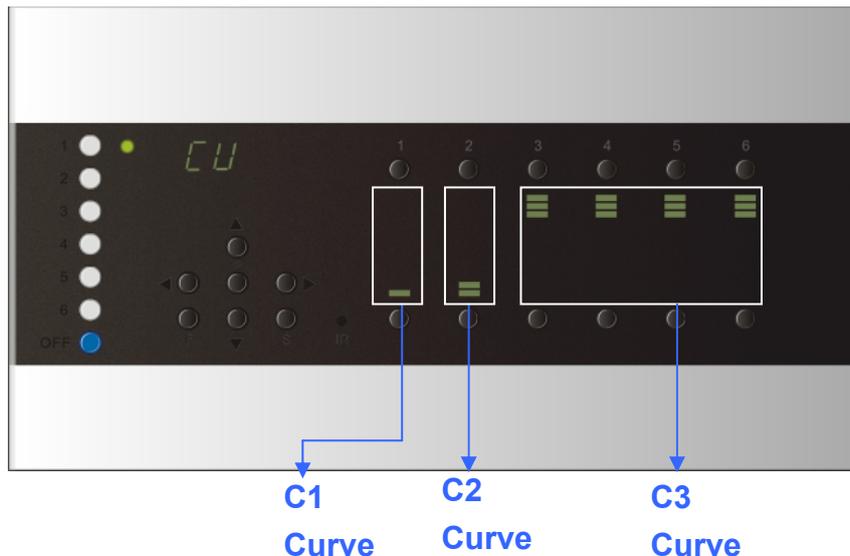
2-20   Enable/Disable Partition Function

STEP-1 Long 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   Checking Software Version

Long 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 Long hold【FCN】for 3 seconds to enter function menu and then press【FCN】 till the screen displays IRon.

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

On usual, when user select a scene, the previous scene will be replaced. This function is for overlap SC5 or SC6 to another scene. If you recall one of SC1-4 first, then recall SC5 or SC6, the later one will overlap to the previous one, so user will see two scenes at the same time. If there is any channel that is in both scenes, it will be outputted at the higher dimming value.

For example, when overlap SC5 to SC4, if CH1's dimming value of SC4 is 40% and SC5 is 20%, it will remain 40%; if CH1's dimming value of SC4 is 40% and SC5 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%.

Safety Precaution

■ The setting of dimmer or non-dimmer mode:

The dimmer/non-dimmer mode should be preset before the fixtures being connected to the devices. Please refer to "Dimmer/Switch Mode Setting" in this manual.

■ Current Loading Precaution:

To prolong the life of the device, we suggest you refer to the following instruction.

1. Keep adequate ventilation. If the machine's internal temperature is over 65°C, the device will stop output.

2. The output of each channel is 4A. The maximum output of the 6 channels in total is 16A.

■ Suggested Environment:

1. Ambience Temperature: under 35°C
2. Humidity: 40% ~ 80%

Guarantee

Lite-Puter promises to fulfill the following acceptances:

1.   Lite-Puter is only responsible for EDX-607 dimmer pack itself.

2.   Lite-Puter guarantees to keep Lite-Puter's fault products caused by techniques, materials and any other logical reasons in good repair for free within a year since the distributing date.

3.   We do not offer door-visiting service. If the trouble appears in Lite-Puter's products, please deliver the equipment to local distributors or Taipei headquarter.

*** Special Statement***

Any fault caused by false usage, imprudence (collision or inadequate installation) or force majeure factors are not in Lite-Puter's service.

Revision Record

Version	Record
E	Add photo to 1-4 Installation
F	Change 1-2 Specification
G	Change 1-2 Dimension & Modify 1-4 Photo
H	Modify 1-4 Photo

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Lite-Puter

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