

# User Manual

## EDX-F04D

### 4 Channel Dimmer Pack



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# 1 Introductions

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## 1-0 Before Installation

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1. Please set proper mode for the loads before turning on the power. The non-dimming lamp may be damaged by setting as dimming mode.
2. Working environment:  
Temperature: 0°C - 40°C  
Humidity: 20% - 80%
3. Please check EDX wiring guide on Liteputer's website: <https://www.liteputer.com.tw/tech-guide-en/>

## 1-1 Features

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1. 4 channel leading-edge dimmable outputs.
2. Compatible to DMX-512 and RDM.
3. Anti-flicker feature for LED lamps.
4. Easily replaceable fuses.
5. 6 scenes with fade effect.

## 1-2 Specifications

---

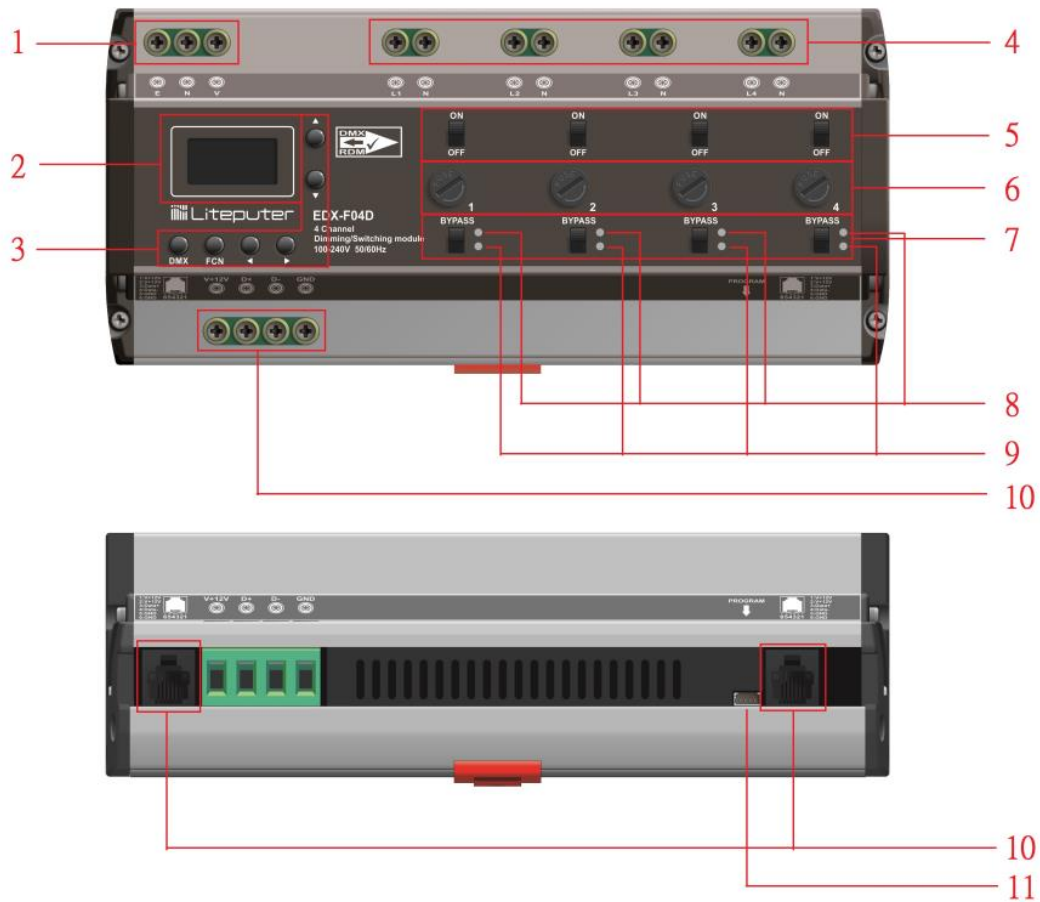
1. Power Input: AC 100 - 240V
2. Protocol: DMX-512, RDM, EDX
3. Dimming Control: Leading-edge (forward phase) dimmable
4. Output: 4A per channel. Total 10A max.
5. DC Output on EDX Port: 500mA.
6. Dimension: 190mm(W) x 90mm(H) x 62mm(D)
7. Weight: 810g

## 1-3 RDM Support Parameters

---

DISC\_UNIQUE\_BRANCH, DISC\_MUTE, DISC\_UNMUTE, SUPPORT\_PARAMETERS, DEVICE\_INFO,  
SOFTWARE\_VERSION\_LABEL, DMX\_START\_ADDRESS, IDENTIFY\_DEVICE, DEVICE\_MODEL\_DESCRIPTION,  
MANUFACTURER\_LABEL, DEVICE\_LABEL, FACTORY\_DEFAULT

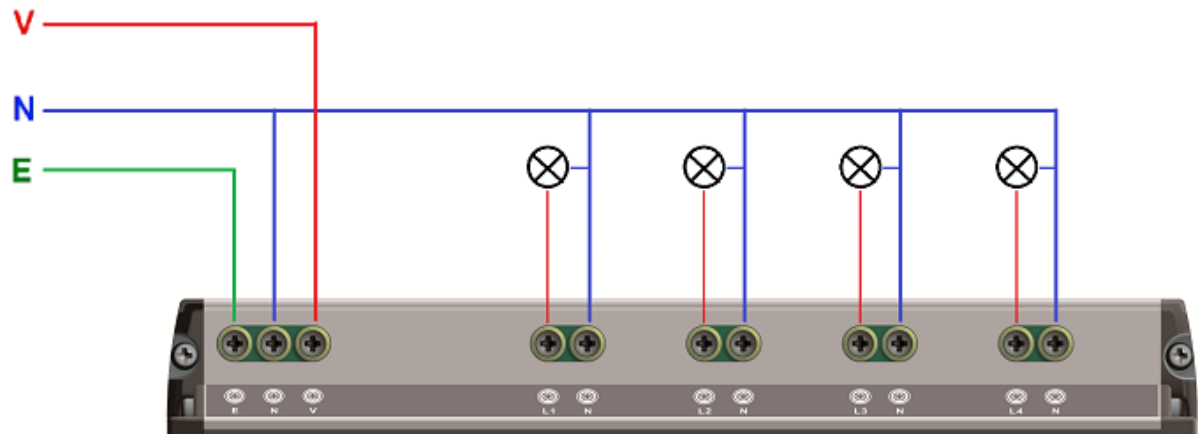
## 1-4 Panel Introductions



1	AC Input
2	OLED Display
3	Buttons <b>[&lt;]</b> <b>[&gt;]</b> <b>[▲]</b> <b>[▼]</b> <b>[FCN]</b> <b>[DMX]</b>
4	Dimming Outputs
5	ON/OFF Switches
6	Fuses
7	BYPASS Switches
8	COM LED Indicator
9	Anti-Flicker Indicator
10	DMX-512/RDM/EDX port
11	Programming Port

## 1-5 Wiring Diagram

### 1-5-1 Dimmable or Non-dimmable Lamps Wiring



*\* Set the channel connected to dimmable lamps as dimming mode; set the channel connected to non-dimmable lamps as switching mode. In switching mode, the output will be ON when dimming level is larger than 50%, and the output will be OFF when dimming level is smaller than 25%.*

## 2 Operations

Turn on the power, the firmware version will be shown on the display

```
Lite-puter
EDX-F04D
Version:v1.0
```

The dimming levels (%) of 4 outputs will be shown.

```
Lite-puter
Ch1:65 Ch2:80
Ch3:70 Ch4:55
```

### 2-1 DMX-512 Address

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**2. DMX**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**1. DMX Address**” and click **【DMX】** to enter.

```
DMX Address
CH.1~4 < >
Old: 1
New: 5
```

(**CH. 1~4** means all channels are selected)

Click **【▲】** or **【▼】** to set the DMX-512 address and click **【DMX】** to save.

**Please note the DMX address of the 4 channels are continuous if all channels are selected (CH. 1~4). That is, if the address is 05, the DMX address will be 5, 6, 7, 8 respectively.**

Click **【◀】** or **【▶】** to select single channel.

```
DMX Address
CH.1 < >
Old: 1
New: 5
```

(**CH. 1** means only channel 1 is selected)

Click **【▲】** or **【▼】** to set the DMX address of the selected channel and click **【DMX】** to save

## 2-2 DMX Bypass

---

*If DMX Bypass is enabled, the dimmer will ignore DMX-512 input.*

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**2. DMX**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**2. DMX Bypass**” and click **【DMX】** to enter.

```
DMX Bypass
>No
Yes
```

Click **【▲】** or **【▼】** to whether enable DMX bypass feature and click **【DMX】** to save.

## 2-3 Min Level

---

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**4. Min/Max Level**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**1. Min Level**” and click **【DMX】** to enter.

```
Min Level
CH.1~4 < >
Old: 0
New: 10
```

(**CH. 1~4** means all channels are selected)

Click **【▲】** or **【▼】** to set the minimum output level and click **【DMX】** to save.

Click **【◀】** or **【▶】** to select single channel.

```
Min Level
CH.1 < >
Old: 0
New: 10
```

(**CH. 1** means only channel 1 is selected)

Click **【▲】** or **【▼】** to set the minimum output level of single channel and click **【DMX】** to save.

## 2-4 Max Level

---

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**4. Min/Max Level**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**2. Max Level**” and click **【DMX】** to enter.

```
Max Level
CH.1~4 < >
Old:100
New: 90
```

(**CH. 1~4** means all channels are selected)

Click **【▲】** or **【▼】** to set the maximum output level and click **【DMX】** to save.

Click **【◀】** or **【▶】** to select single channel.

```
Max Level
CH.1 < >
Old:100
New: 90
```

(**CH. 1** means only channel 1 is selected)

Click **【▲】** or **【▼】** to set the maximum output level of single channel and click **【DMX】** to save.



## 2-5 Dimming Curve

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**5. Curve**” and click **【DMX】** to enter.

```
Curve
CH.1 < >
Old:C2
New:C3
```

Click **【◀】** or **【▶】** to select a channel.

Click **【▲】** or **【▼】** to select a dimming curve of the selected channel and click **【DMX】** to save.

*The default dimming curve is C2.*

## 2-6 Dimming/Switching Mode

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**6. Dimmer/Switch**” and click **【DMX】** to enter.

```
Dimmer/Switch
CH.1 < >
Old:Dimmer
New:Switch
```

Click **【◀】** or **【▶】** to select a channel.

Click **【▲】** or **【▼】** to select a dimming curve of the selected channel and click **【DMX】** to save.

*In switching mode, the output will be ON when dimming level is larger than 50%, and the output will be OFF when dimming level is smaller than 25%.*

## 2-7 EL On/Off (Anti-Flicker)

*EL (Electric Load) is a feature to suppress the possible flicker (anti-flicker) on some electric lamps (LEDs). Turning on EL feature will make the temperature higher. Please make sure the decent air ventilation of the dimmers or please decrease the load.*

*EL feature does not guarantee to eliminate the flicker of the LED lamps.*

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “7. EL On/Off” and click **【DMX】** to enter.

```
EL On/Off
CH.1~4 < >
Old:On
New:Off
```

(**CH. 1~4** means all channels are selected)

Click **【▲】** or **【▼】** to set the turn EL ON/OFF and click **【DMX】** to save.

Click **【◀】** or **【▶】** to select single channel.

```
EL On/Off
CH.1 < >
Old:On
New:Off
```

(**CH. 1** means only channel 1 is selected)

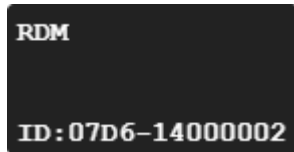
Click **【▲】** or **【▼】** to set the EL of the selected channel and click **【DMX】** to save

## 2-8 RDM

---

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**8. RDM**” and click **【DMX】** to enter.



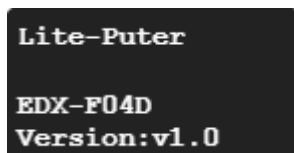
The RDM ID of the device will be shown.

## 2-9 Version

---

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**9. Version**” and click **【DMX】** to check the version number of the firmware.

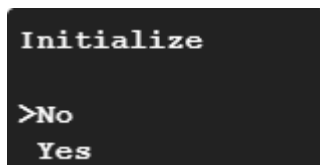


## 2-10 Initialize

---

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**10. Initialize**” and click **【DMX】** to enter.



Click **【▲】** or **【▼】** to select “**Yes**” to click **【DMX】** to initialize.

*Please note all data except scenes will be reset after initializing.*

## 3 EDX System

EDX-F04D can work either in DMX-512 mode or EDX mode.

**DMX-512 Mode:** EDX-F04D can be controlled by DMX-512 controllers.

**EDX Mode:** EDX-F04D can be recalled its stored lighting scenes by connecting to ECP scene control panels.

Please check EDX wiring guide on Liteputer's website: <https://www.liteputer.com.tw/tech-guide-en/>

### 3-0 EDX Mode

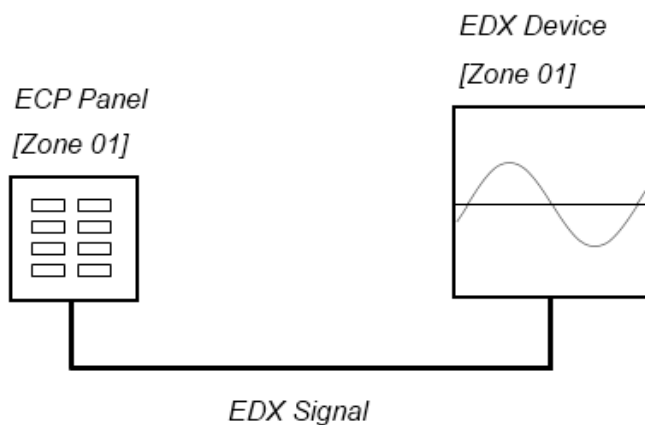
*EDX is a protocol specifically designed for architectural and environmental lighting applications. EDX dimmers or devices are able to store scenes in themselves.*

*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.*

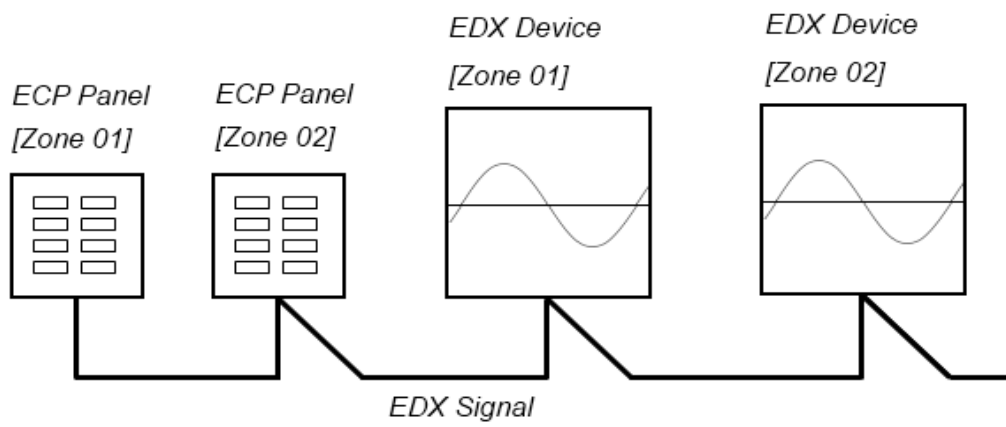
For example, EDX devices configured as zone 1 can be controlled (recall scenes) by ECP panel configure as zone 1.

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.

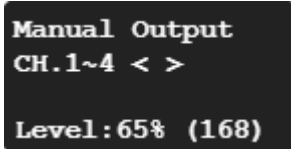
*\* If there are both DMX-512 and EDX signal present, DMX-512 signal has the highest priority.*

## 3-1 Manual Output

---

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**1. Manual Output**” and click **【DMX】** to enter.



(**CH. 1~4** means all channels are selected)

Click **【▲】** or **【▼】** to set the dimming levels of all channels.

Click **【◀】** or **【▶】** to select single channel.

Click **【▲】** or **【▼】** to set the dimming levels of the selected channels. The output will instantly changes base on the new dimming level.

After setting the dimming levels, click **【DMX】** can enter scene-saving screen directly. (refer 3-2)

## 3-2 Save Scene

---

There are two ways to enter scene-saving:

### Method 1:

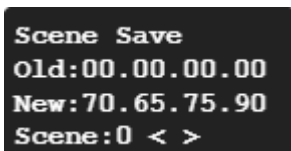
Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**3. EDX**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**2. Scene Save**” and click **【DMX】** to enter.

### Method 2:

After setting the dimming levels, click **【DMX】** to enter the scene-saving screen.



```

Scene Save
Old:00.00.00.00
New:70.65.75.90
Scene:0 < >
    
```

It will show old and new dimming levels of the scene.

Click **【◀】** or **【▶】** to select scene 0 – 6. Click **【DMX】** to save the scene or click **【FCN】** to exit.

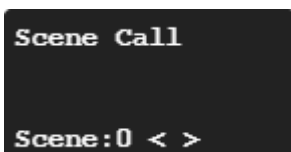
## 3-3 Call Scene

---

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**3. EDX**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**1. Scene Call**” and click **【DMX】** to enter.



```

Scene Call

Scene:0 < >
    
```

Click **【◀】** or **【▶】** to select a scene between 0 – 6 and click **【DMX】** to recall it.

## 3-4 Fade Time

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**3. EDX**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**3. Fade Time**” and click **【DMX】** to enter.

```
Fade Time
Scene:0 < >
Old: 2s
New: 2S
```

Click **【◀】** or **【▶】** to select a scene.

Click **【▲】** or **【▼】** to set the fade time of the scene and click **【DMX】** to save.

## 3-5 EDX Zone

*Zone definition: User must set zone code of the device in EDX system. This code has two parts. The first part is zone number, and the second is starting channel address. For example, if there are 4 EDX-F04D in zone 1 with total 16 channels, the zone code should be set as 01-01, 01-05, 01-09, and 01-13.*

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**3. EDX**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**4. EDX Zone**” and click **【DMX】** to enter.

```
EDX Zone
CH.1~4 < >
Old: 1
New: 1
```

(**CH. 1~4** means all channels are selected)

Click **【▲】** or **【▼】** to set the EDX zone number of all channels and click **【DMX】** to save.

```
EDX Zone
CH.1 < >
Old: 1
New: 1
```

Click **【◀】** or **【▶】** to select single channel.

(**CH.1** means only channel 1 is selected)

Click **【▲】** or **【▼】** to set the EDX zone number of the selected channel and click **【DMX】** to save.



## 3-6 EDX Channel

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**3. EDX**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**5. EDX Channel**” and click **【DMX】** to enter.

```
EDX Channel
CH.1~4 < >
Old: 1
New: 5
```

(**CH. 1~4** means all channels are selected)

Click **【▲】** or **【▼】** to set the EDX channel number of all channels and click **【DMX】** to save.

```
EDX Channel
CH.1 < >
Old: 1
New: 1
```

Click **【◀】** or **【▶】** to select single channel.

(**CH.1** means only channel 1 is selected)

Click **【▲】** or **【▼】** to set the EDX channel number of the selected channel and click **【DMX】** to save.

## 3-7 EDX ID

*Working in EDX system, EDX-F04D needs to set ID number and zone number. The default setting of EDX-F04D's ID number is 001.*

*When one device's working alone, there is no need to set the ID number, but when several devices' working together, each device must have a different ID number.*

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select “**3. EDX**” and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select “**6. EDX ID**” and click **【DMX】** to enter.

```
EDX ID
Old: 1
New: 1
```

Click **【▲】** or **【▼】** to change the ID and click **【DMX】** to save.

## 3-8 Scene Overlap

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

For example,

Overlap SC5 to SC4,

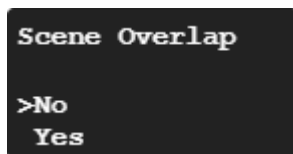
If CH1's dimming value in SC4 is 40% and in SC5 is 20%, it will remain 40%;

If CH1's dimming value in SC4 is 40% and in SC5 is 85%, it will change to 85%.

Click **【FCN】** to enter the menu.

Click **【▲】** or **【▼】** to select "3. EDX" and click **【DMX】** to enter.

Click **【▲】** or **【▼】** to select "7. Scene Overlap" and click **【DMX】** to enter.



Click **【▲】** or **【▼】** to select Yes/No and click **【DMX】** to save.

## Limited Warranty

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1. Lite-Puter is only responsible for the product itself.
2. Lite-Puter warrants to repair any manufacturing defects within one year of distribution date.
3. Lite-Puter does not offer on-site service. Should a defect appear in Lite-Puter' s product, please deliver the product to local distributors or Taiwan Headquarters.
4. This Limited Warranty does not cover:
  - a. Any fault caused by false usage or imprudence (collision, inadequate installation or adjustment, insufficient ventilation, or improper repairs)
  - b. Force majeure factors (flooding, earthquake, volcanic eruption, or other factors beyond Lite-Puter' s control).
  - c. Labor costs incurred in diagnosis of defects; installation, reinstallation, wiring, rewiring, repairing, adjustment, or reprogramming of a product; or any other consequential expenses.
  - d. Other Lite-Puter or non-Lite-Puter products or devices offered, packaged, or sold with the product.
5. Lite-Puter does not warrant that the product will operate without interruption or free of error.

### **World Headquarters :**

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