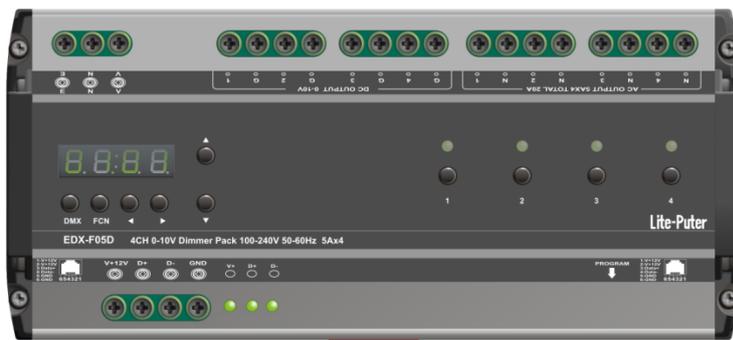


User Manual

EDX-F05D

4-Channel 0-10V Dimmer Pack



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1 Before Installation

1. Load Capacities: 5A per channel. Total 20A.
2. Working environment:
Temperature: < 40°C Humidity: 40% - 80%
3. Good ventilation environment is required; otherwise, accumulated heat in the machine will lead to damage of system. If the machine is installed in a rack, then the temperature inside the rack must be under 45°C

2 Introductions

2-1 Features

1. 4 channels output. Each channel includes one AC OUT power supply and one DC 0-10V analog output.
2. Accept standard DMX-512 signal.
3. Can set the OFF time for AC OUT power from 1 second to 99 seconds.
4. Can set the fade time for each scene.
5. Up to 99 zones setting.

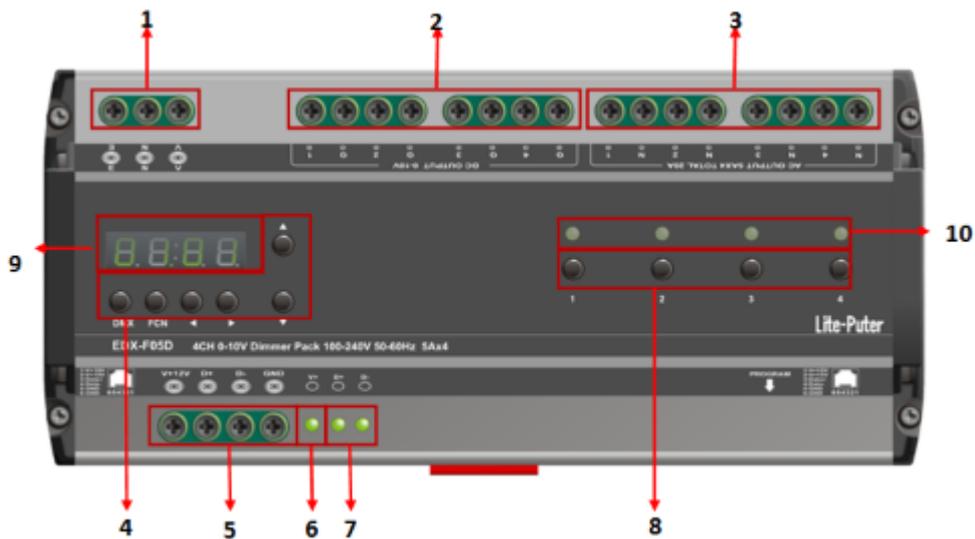
2-2 Specifications

1. Power Supply: 100 - 240V AC (EDX/DMX-512connector for DC12, min.600mA)
2. Protocol: DMX-512/1990, EDX
3. Output Channel: 4 channels, 5A per channel max. Total 20A max.
4. DMX signal connector: 6P 6C PHONEJACK x 2, 4-pin terminal x 1.
5. Dimension: 198mm(W) x 90mm(H) x 62mm(D)
6. Weight: 680g

2-3 Dimension

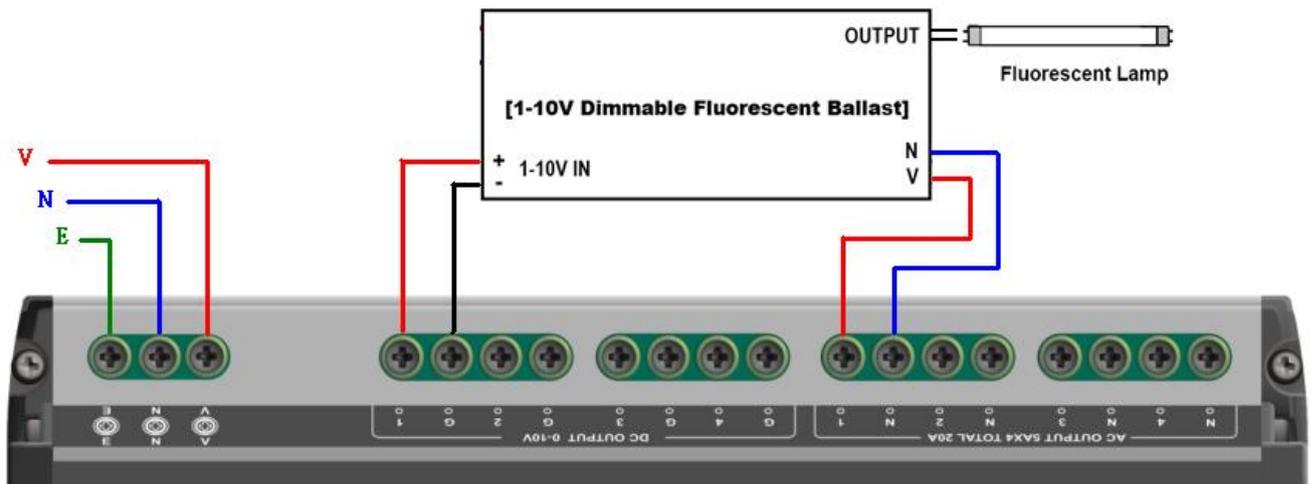


2-4 Panel Introductions



1	AC 100 – 240V Input	2	DC 0 – 10V Output x 4
3	AC Output x 4	4	Function button ▲ ▼ ► ◀ 【FCN】 【DMX】
5	DMX/EDX connector	6	Power Indicator
7	DMX Indicator	8	Instant Output Key 【1】 【2】 【3】 【4】
9	LED Display	10	Dimming LED Indicator

2-5 Wiring Diagram



3 Operations

3-1 Initialization

1. Press **▲** and **▼** at the same time then switch on the device , LED displays,



2. Press **FCN** to cancel memory Initialization , LED displays,



The current zone and start channel is displayed in the main screen, the former "01" is zone number, the latter "01" is start channel address.

3. Press **DMX** to start memory Initialization , LED displays,



3-2 DMX Address Setting

1. Hold **DMX** and then press **▲** or **▼** to set the DMX IN start channel address. For example, press **▲** , LED displays,



Current DMX address is 002.

In the DMX IN mode, the first dot is blinking means the DMX signal inputs.



3-3 AC OUT OFF Delay Setting

1. Press **【FCN】** several times until LED display shows:



The last two digits mean delay time, AC OUT OFF is set as 0s; setting range is 0-99s.

2. Press **【▲】** or **【▼】** to adjust AC OUT OFF delay time . For example, press

【▲】 , LED displays,



Now, the delay time of AC OUT OFF is set as 1 second.

3. Press **【DMX】** to save the setting and exit.

Please refer appendix 1 for AC Output Off Delay Time Table

3-4 Channel Output Check

1. Press **【▲】** or **【▼】** , LED displays,



The first "1" is channel; the last "10" is output level. Now, level of Channel 1 is 10%.

2. When one channel's output is changing, EDX-F05D will automatically convert to display the channel's output level. For example: channel 2



3. Press **【DMX】** to exit the check.

3-5 DMX IN Configuration

1. Press **【FCN】** several times until LED display shows;



0F : EDX-F05D accepts DMX-512 signal.
 0N : EDX-F05D ignores DMX-512 signal

2. Press **【▲】** or **【▼】** to choose OF or ON, if press **【▼】** , LED displays,



3. Press **【DMX】** to save the setting and exit.

3-6 AC Output Start Level Setting

By default, the AC output on EDX-F05D will be turned on when input level is larger than 10% because most dimmable LED drivers and fluorescent ballasts are 1-10V dimmable (not 0-10V dimmable).

Some 0-10V LED dimmable driver might be able to dim lower than 10%. Its possible to set “AC Output Start Level” lower to dim these dimmable driver lower.

1. Press **【FCN】** several times until LED display shows;



It means “AC Output Start Level” is 10%.

2. Press **【▲】** or **【▼】** to adjust from 2% to 10%.

3. Press **【DMX】** to save the setting and exit.

This feature is only available on firmware version after 1.2.

4 EDX Systems

4-0 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

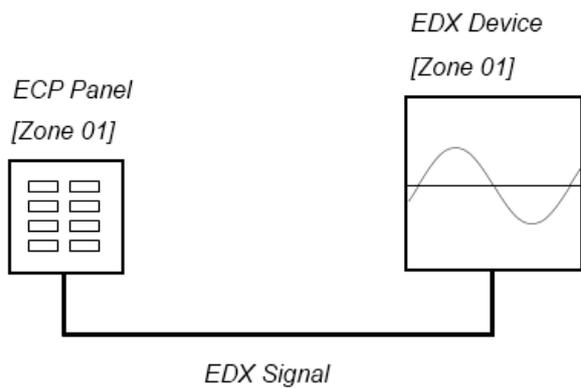
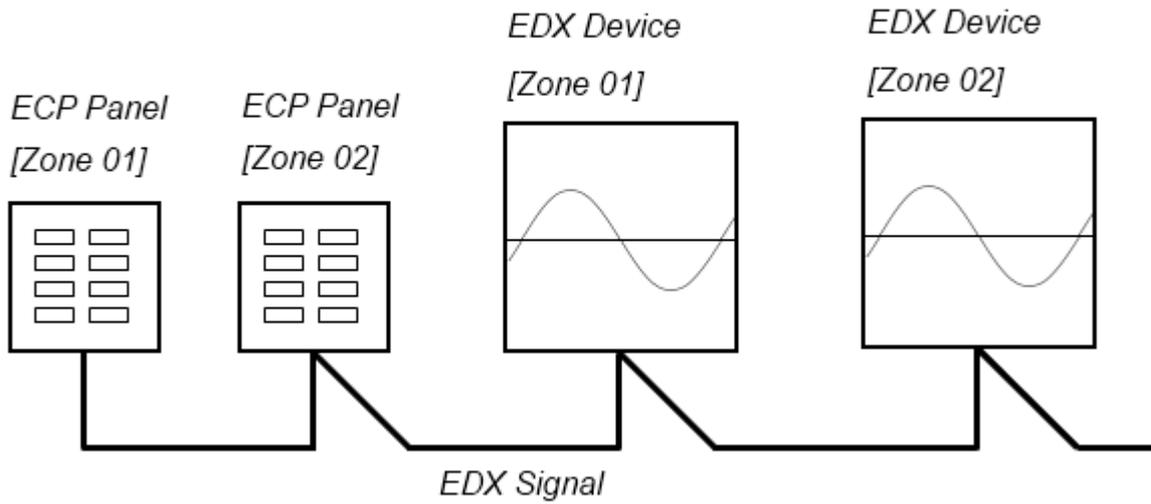


Figure 2: Multiple EDX devices with ECP scene panels



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.*

4-1 ID Number Setting

Each EDX series device must have a ID No.. When one device is working alone, there is no need to adjust the ID No., but when several devices are working together, each device must have a different ID No..

1. Press **【FCN】** several times until LED display shows:



2. Then press **【▲】** or **【▼】** to adjust ID number, after setting ID NO. as 003, LED displays,



3. Press **【DMX】** to save the setting and exit.

4-2 Zone Setting

Definition of zone: The device must set the Zone No. before using, which consists of two parts, one is the zone no. and the other is the start channel address. For example, if there are 4 EDX-F05D in zone 1 with total 16 channels, the zone code should be set as 01-01, 01-05, 01-09, and 01-13

1. Press **【FCN】** several times until LED display shows:



The former "01" is current zone number; the latter "01" is start channel address.

2. The first 2 digits 01 are blinking. Press **【▲】** or **【▼】** to modify the current zone number. For example, press **【▲】**, LED displays,



3. Press **【FCN】** shift to adjust start channel, and the last 2 digits are blinking, LED displays,



4. Press **【▲】** or **【▼】** to modify start channel. For example, press **【▲】**, LED displays:



5. Press **【DMX】** to save the setting and exit.

4-3 Edit Dimming Level of Each Channel

1. Press **▲** or **▼** , LED shows



The first "1" is channel; the last "68" is output level. Now, level of Channel 1 is 68%.

2. The first two digits are blinking, press **▲** or **▼** to adjust channel, For example , press **▲** , LED displays,



3. Press **▶** button to shift to level edit, LED displays,



4. The last two digits are blinking, press **▲** or **▼** to adjust output level of the current channel, For example , set as 70%, LED displays,



5. Press **DMX** to save the setting and exit.

4-4 Scene Save

1. After editing the output of all channels, press **【DMX】** and **【1】** to save the current output to scene 1, LED displays,



How to save other scenes:

SCENE 2 : **【DMX】** + **【2】**

SCENE 3 : **【DMX】** + **【3】**

SCENE 4 : **【DMX】** + **【4】**

SCENE 5 : **【DMX】** + **【FCN】** + **【1】**

SCENE 6 : **【DMX】** + **【FCN】** + **【2】**

4-5 Scene Fade Time Setting

1. Press **【FCN】** several times until LED display shows;



The first digit means scene name: "0" means OFF scene, "1" means Scene 1, "2" means Scene 2 and so on..

The last 2 digits mean FADE time, now, it means FADE time of SC OFF is 0s.

2. Now, the first 0 is blinking, and press **【▲】** or **【▼】** to adjust scene . For example , press **【▲】** , LED displays,



FADE time of scene 1 is 0s

3. Press **【▶】** button to shift to FADE time setting, LED displays,



4. The last two 0.0 are blinking, press **▲** or **▼** to adjust FADE time . For example, set as 1s, LED displays,



5. Press **DMX** to save the setting and exit.

Please refer appendix 2 for fader time table.

4-6 Scene Overlap Function

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 or three 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%.

1. Press **【FCN】** several times until LED display shows:



ON: turn on scene overlap function.

OFF: turn off scene overlap function.

2. Press **【▲】** or **【▼】** to shift between on and off. For example , press **【▲】** , LED displays,



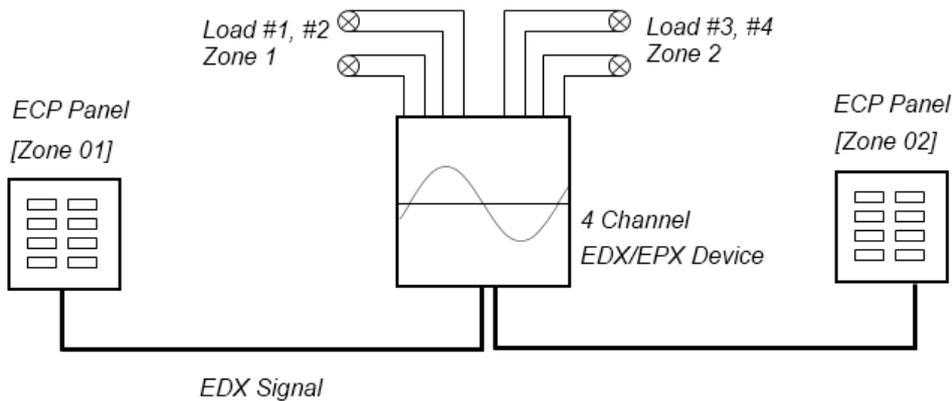
3. Press **【DMX】** to save the setting and exit.

4-7 Partition (Multi-Zone) Function

Generally, all channels on EDX-F05D can be only set to only 1 zone.

To make EDX-F05D more flexible, you can assign each channel on EDX-F05D to different zones by using partition function. For example, you assign channel 1 – 2 on EDX-F05D to partition 1 and channel 3 – 4 on EDX-F05D to partition 2. There are 2 control panels (ECP-106) connected to EDX-F05D, 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 – 2 on EDX-F05D will change their dimming levels. If scenes are recalled by ECP-106 of zone 2, only channel 3– 4 on EDX-F05D will change their dimming levels.

**Figure: Channel 1 and 2 on EDX/EPX device in zone 1 (channel 1,2 are controlled by ECP panel in zone 1)
Channel 3 and 4 on EDX/EPX devices in zone 2 (channel 3,4 are controlled by ECP panel in zone 2)**



4-7-1 Enable/Disable Partition

1. Press **【FCN】** several times until LED display shows:



Now partition (Multi-Zone) function is disabled.

2. Press **【▲】** or **【▼】** to enable/disable partition (Multi-Zone) function.

For example press **【▲】** , LED displays,



Now partition function is enabled.

3. Press **【DMX】** to save the setting and exit.

4-7-2 Partition Setting of Each Output

1. Press **【FCN】** several times until LED display shows:



The first "1-" is channel; the last "01" is zone number. Now, means Channel 1 is in zone 1.

2. The first "1-" are blinking, and press **【▲】** or **【▼】** to adjust channel. For example, press **【▲】**, LED displays,



3. Press **【▶】** button to shift to zone number, and the last two digits "01" are blinking:



4. Press **【▲】** or **【▼】** to adjust the zone. For example, set zone as 03, LED displays,



Zone setting range: 01-99 °

5. Channel 2 is in Zone 3, and press **【▶】** button again to shift to the start channel setting, LED displays:



6. Press **【▲】** or **【▼】** to adjust the start channel address to 003, LED displays,



The channel address setting range: 001-255.

7. Press **【DMX】** to save the setting and exit.

Note: multi-zone setting is effective when the partition(multi-zone) function is ON.

4-8 Quick Turn On/Off Channels

When no DMX signal inputs, press **【1】 ~ 【4】** buttons to quick turn on/off 1-4 channel. Press button once, the channel output is 50%, press again to output 100%, the third time will close output.

4-9 Version No. Check

Press **【FCN】** several times until LED display shows:



The version of firmware is 1.0.

Appendix 1: Auto Off Table

A.o.00 Instant	A.o.01 1 sec.	A.o.02 2 sec.	A.o.03 3 sec.	A.o.04 4 sec.	A.o.05 5 sec.	A.o.06 6 sec.	A.o.07 7 sec.	A.o.08 8 sec.	A.o.09 9 sec.
A.o.10 10 sec	A.o.11 11 sec.	A.o.12 12 sec.	A.o.13 13 sec.	A.o.14 14 sec.	A.o.15 15 sec.	A.o.16 16 sec.	A.o.17 17 sec.	A.o.18 18 sec.	A.o.19 19 sec.
A.o.20 20 sec	A.o.21 21 sec.	A.o.22 22 sec.	A.o.23 23 sec.	A.o.24 24 sec.	A.o.25 25 sec.	A.o.26 26 sec.	A.o.27 27 sec.	A.o.28 28 sec.	A.o.29 29 sec.
A.o.30 30 sec	A.o.31 31 sec.	A.o.32 32 sec.	A.o.33 33 sec.	A.o.34 34sec.	A.o.35 35 sec.	A.o.36 36 sec.	A.o.37 37sec.	A.o.38 38sec.	A.o.39 39 sec.
A.o.40 40 sec	A.o.41 41 sec.	A.o.42 42 sec.	A.o.43 43 sec.	A.o.44 44sec.	A.o.45 45 sec.	A.o.46 46 sec.	A.o.47 47sec.	A.o.48 48sec.	A.o.49 49 sec.
A.o.50 50 sec	A.o.51 51 sec.	A.o.52 52 sec.	A.o.53 53 sec.	A.o.54 54sec.	A.o.55 55 sec.	A.o.56 56 sec.	A.o.57 57sec.	A.o.58 58sec.	A.o.59 59 sec.
A.o.60 60 sec	A.o.61 61 sec.	A.o.62 62 sec.	A.o.63 63 sec.	A.o.64 64sec.	A.o.65 65 sec.	A.o.66 66 sec.	A.o.67 67sec.	A.o.68 68sec.	A.o.69 69 sec.
A.o.70 70 sec	A.o.71 71 sec.	A.o.72 72 sec.	A.o.73 73 sec.	A.o.74 74sec.	A.o.75 75 sec.	A.o.76 76 sec.	A.o.77 77sec.	A.o.78 78sec.	A.o.79 79 sec.
A.o.80 80 sec	A.o.81 81 sec.	A.o.82 82 sec.	A.o.83 83 sec.	A.o.84 84sec.	A.o.85 85 sec.	A.o.86 86 sec.	A.o.87 87sec.	A.o.88 88sec.	A.o.89 89 sec.
A.o.90 90 sec	A.o.91 91 sec.	A.o.92 92 sec.	A.o.93 93 sec.	A.o.94 94 sec.	A.o.95 95 sec.	A.o.96 96 sec.	A.o.97 97sec.	A.o.98 98sec.	A.o.99 99 sec.

Appendix 2: Fader Time Table

0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
0.1 s	0.2 s	0.3 s	0.4 s	0.5 s	0.6 s	0.7 s	0.8 s	0.9 s	1 s
2	3	4	5	6	7	8	9	10	12
2 s	3 s	4 s	5 s	6 s	7 s	8 s	9 s	10 s	12 s
14	16	18	20	25	30	35	40	45	50
14 s	16 s	18 s	20 s	25 s	30 s	35 s	40 s	45 s	50 s
55	1 .	2 .	3 .	4 .	5 .	6 .	7 .	8 .	9 .
55 s	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m
10 .	11 .	12 .	13 .	14 .	15 .	16 .	17 .	18 .	19 .
10 m	11 m	12 m	13 m	14 m	15 m	16 m	17 m	18 m	19 m
20 .	21 .	22 .	23 .	24 .	25 .	26 .	27 .	28 .	29 .
20 m	21 m	22 m	23 m	24 m	25 m	26 m	27 m	28 m	29 m
30 .	31 .	32 .	33 .	34 .	35 .	36 .	37 .	38 .	39 .
30 m	31 m	32 m	33 m	34 m	35 m	36 m	37 m	38 m	39 m
40 .	41 .	42 .	43 .	44 .	45 .	46 .	47 .	48 .	49 .
40 m	41 m	42 m	43 m	44 m	45 m	46 m	47 m	48 m	49 m
50 .	51 .	52 .	53 .	54 .	55 .	56 .	57 .	58 .	59 .
50 m	51 m	52 m	53 m	54 m	55 m	56 m	57 m	58 m	59 m
60 .	61 .	62 .	63 .	64 .	65 .	66 .	67 .	68 .	69 .
60 m	61 m	62 m	63 m	64 m	65 m	66 m	67 m	68 m	69 m
70 .	71 .	72 .	73 .	74 .	75 .	76 .	77 .	78 .	79 .
70 m	71 m	72 m	73 m	74 m	75 m	76 m	77 m	78 m	79 m
80 .	81 .	82 .	83 .	84 .	85 .	86 .	87 .	88 .	89 .
80 m	81 m	82 m	83 m	84 m	85 m	86 m	87 m	88 m	89 m
90 .	91 .	92 .	93 .	94 .	95 .	96 .	97 .	98 .	99 .
90 m	91 m	92 m	93 m	94 m	95 m	96 m	97 m	98 m	99 m

Limited Warranty

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.

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