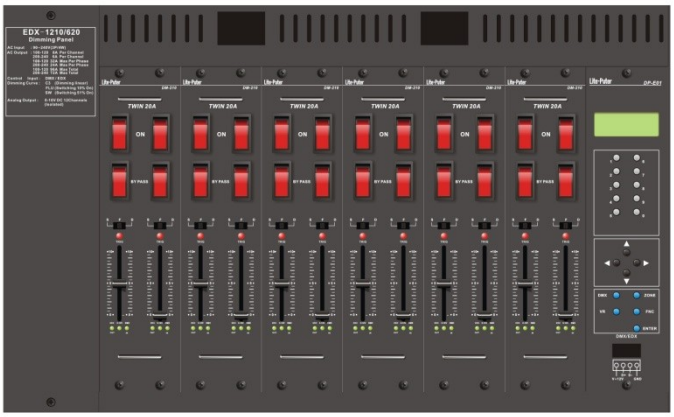
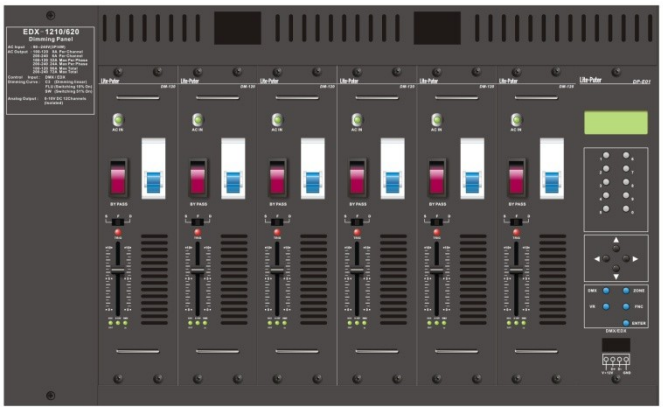
User Manual

EDX-1210/EDX-620

12/6 Channel Dimmer Pack





INDEX

0 Caution

0-1 Dimming or Switching Setting

1. Each channel must be set 1.dimming 2.non-dimming (switching) 3.fluorescent before connecting to the load.
2. Non-dimming lamps, for example, non-dimmable fluorescent lamps, mercury lamps, high (low) pressure sodium lamps, compound metal lamps or other lamps with motor, can be damaged when being set as dimmable. Please refer to 2-12.

0-2 Instruction of Load Power

In order to maintain the operation of EDX-1210 / EDX -620, please follow the instructions as below: EDX -1210 / EDX -620 must keep decent ventilation. Overheating will lead to EDX -1210 / EDX -620 to stop output to protect itself.

0- 3 Operating Circumstance

Room temperature: < 35°C

Humidity: 40% ~ 80%

1 Introduction

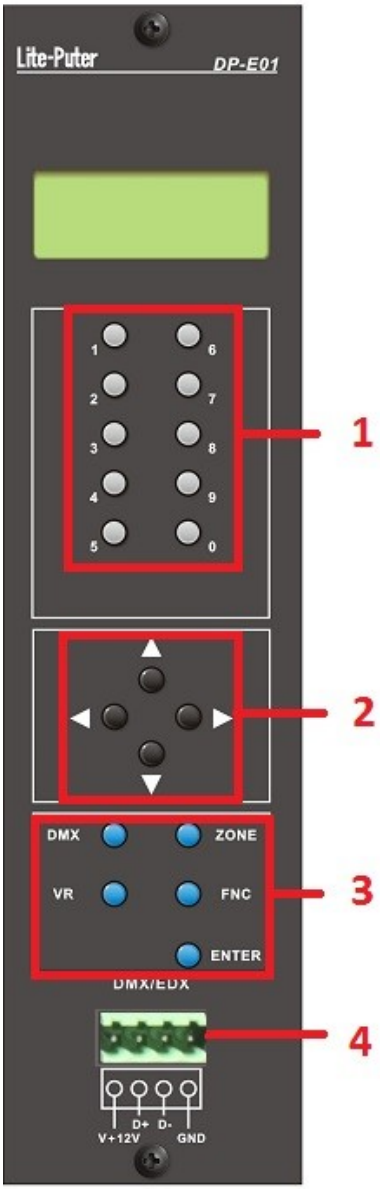
1-1 Features

1. EDX-1210: 12 channels. Maximum output of each channel is 10A
   EDX-620: 6 channels. Maximum output of each channel is 20A
2. EDX, DMX-512 compatible
3. Square-law dimming curve (C2.0 dimming curve)
4. Adjustable fade in/out time
5. Build-in timer
6. Each channel can be set as dimming /non-dimming/fluorescent mode.
7. LCD display
8. Button lock/unlock function
9. Up to 99 zones.
10. Can be recalled scene by external controllers or scene control panels.

1-2 Specifications

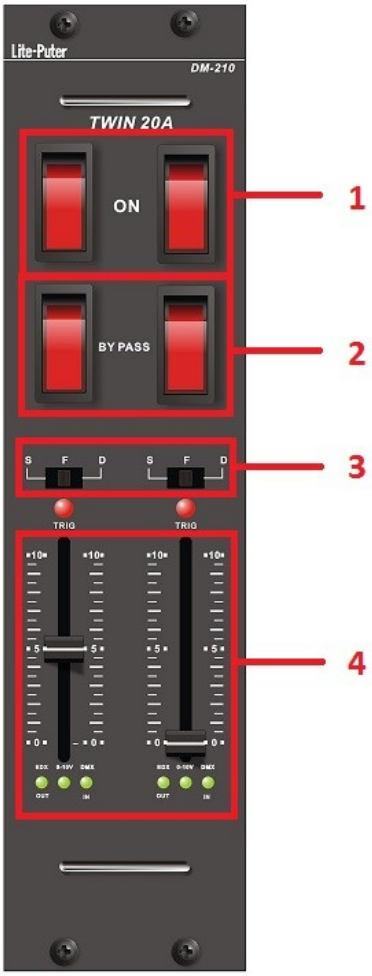
1. Input: AC 100 – 240V
2. Output:
   EDX-1210: 10A per channel (max)
   EDX-620: Output: 20A per channel (max)
3. Protocol: EDX/ DMX-512
4. Dimension: 492(W) x 350(H) x 125(D) mm
5. Weight: 12 kg

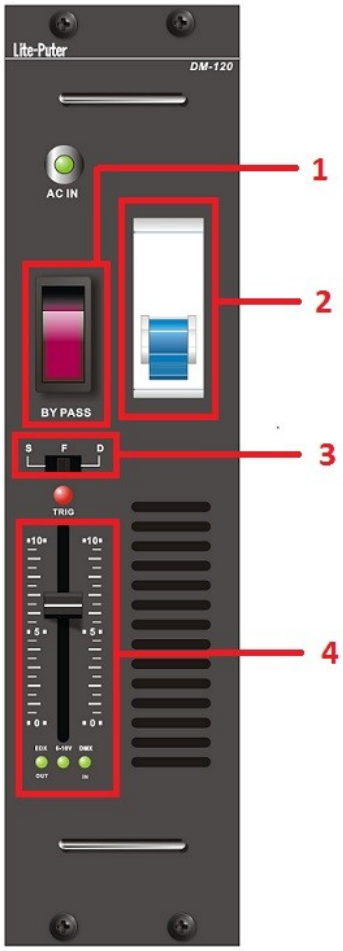
1-3 DP-E01 Introductions



1	【0】-【9】
2	【▲】,【▼】 ,【▶】 ,【◀】
3	【DMX】,【ZONE】 ,【VR】 ,【**FNC**】 ,【ENTER】
4	DMX-512 Input/ RS-485

1-4 Dimming Module Introductions

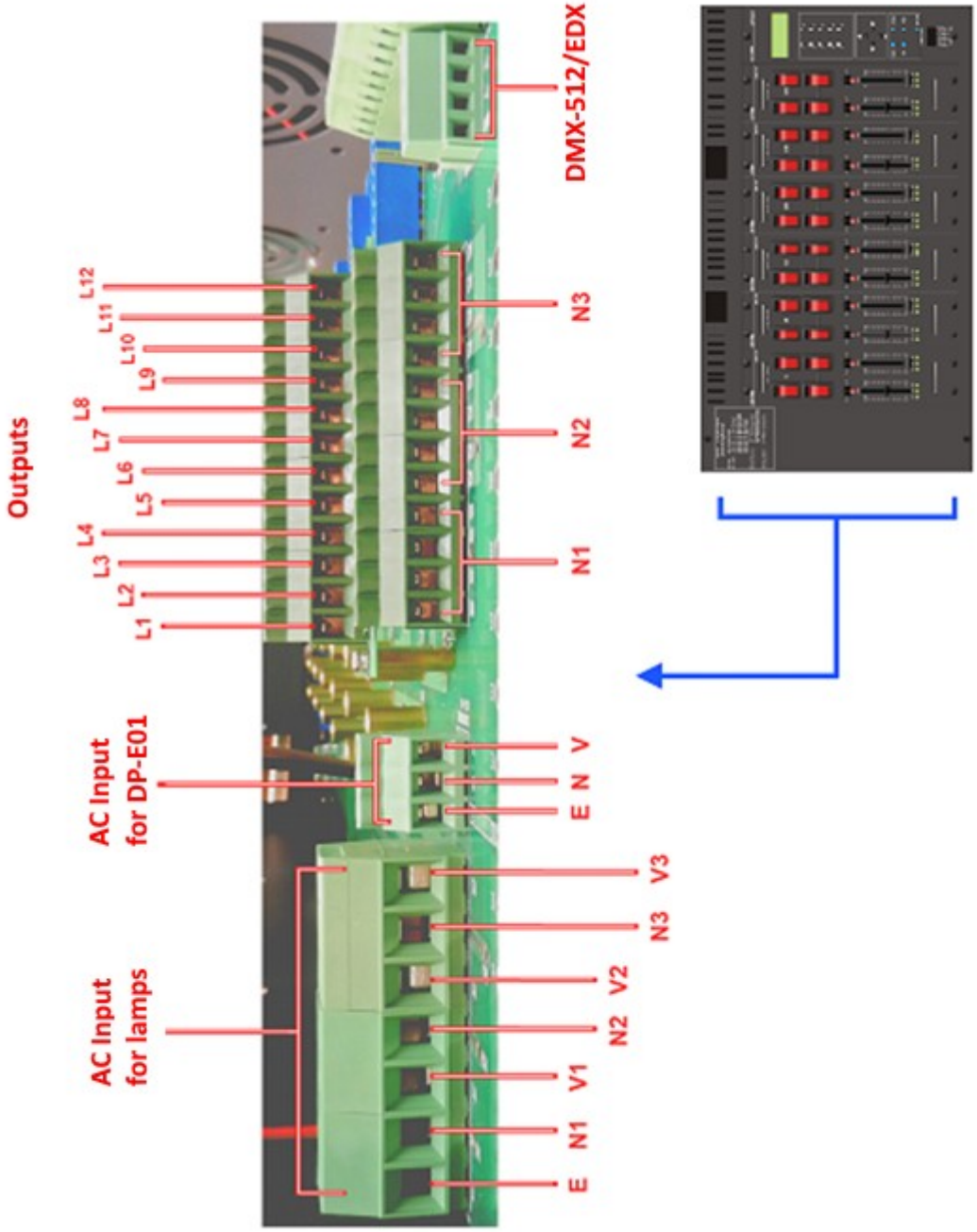




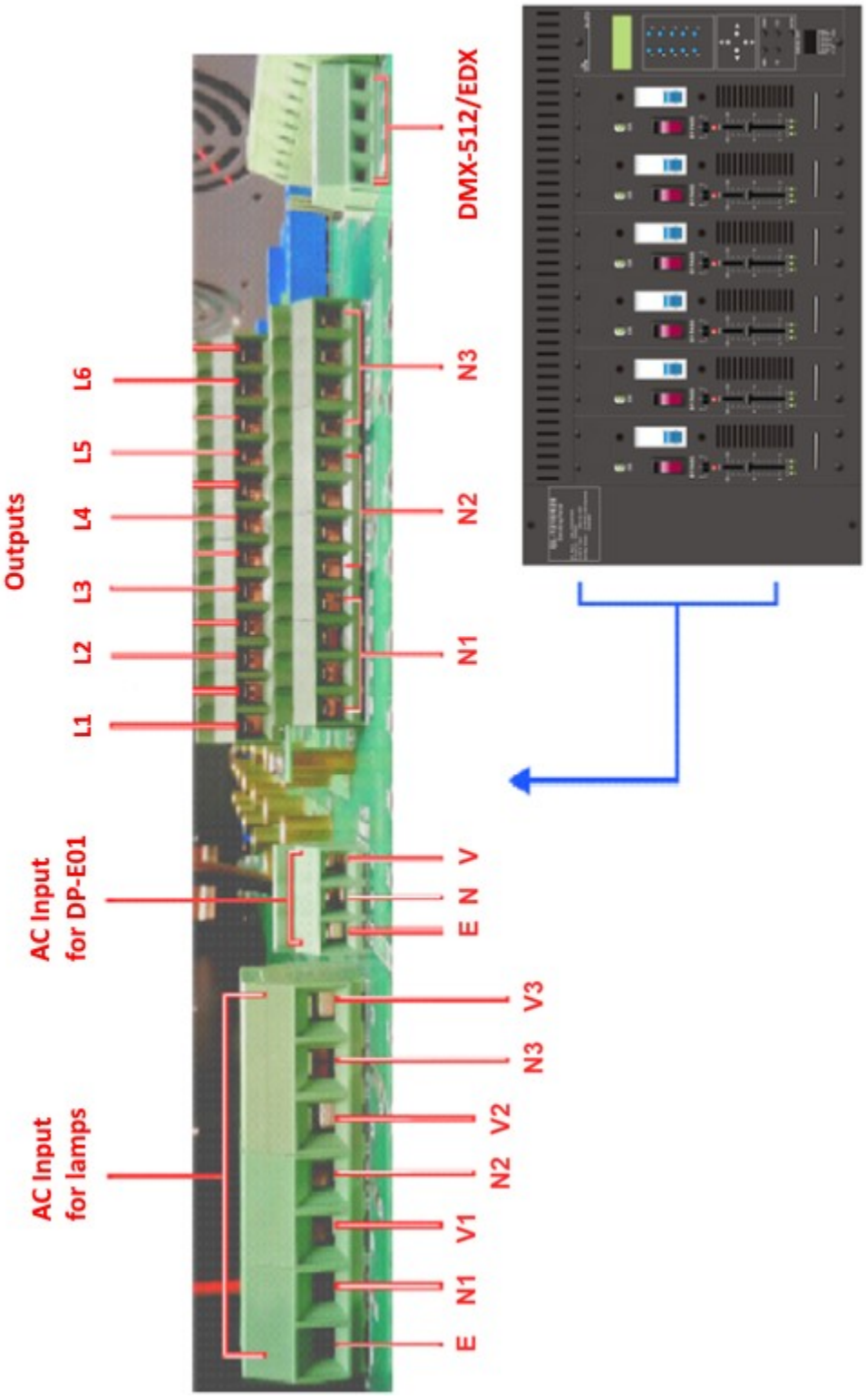
1	ON/OFF
2	Output Bypass
3	Dimming Mode Selection D: Leading-edge dimming S: Switch (On/Off) F: Fluorescent (0-10V DC)
4	Dimming Sliders

1-5 Output Terminals (EDX-1210)/(EDX-620)

EDX-1210

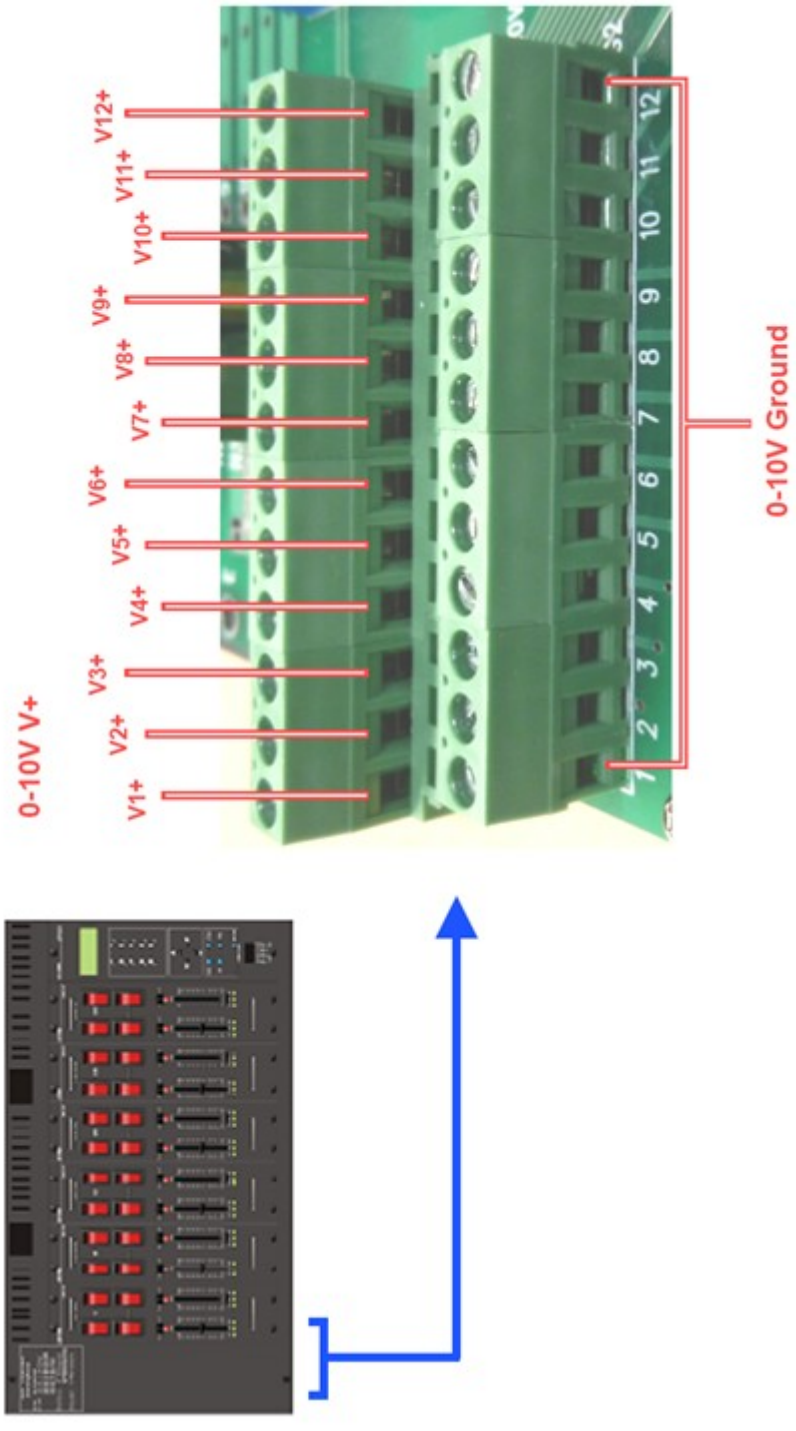


EDX-620

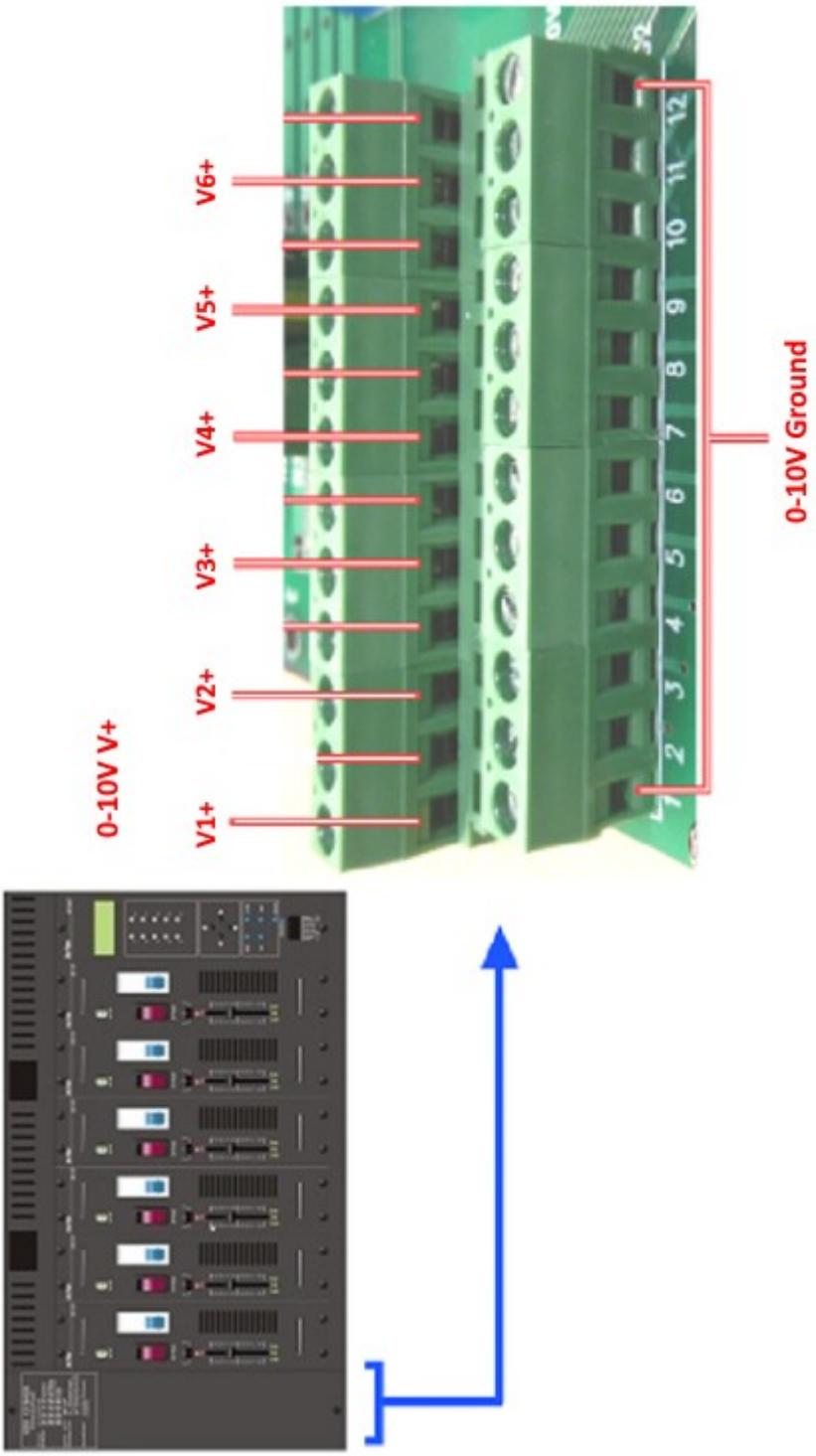

DMX-512/EDX
N3
N2
N1
Outputs
L6
L5
L4
L3
L2
L1
AC Input
for DP-E01
V
N
E
V3
N3
V2
N2
V1
N1
E
AC Input
for lamps

1-6 Analog (0-10V DC) Output Terminals (EDX-1210)/(EDX-620)

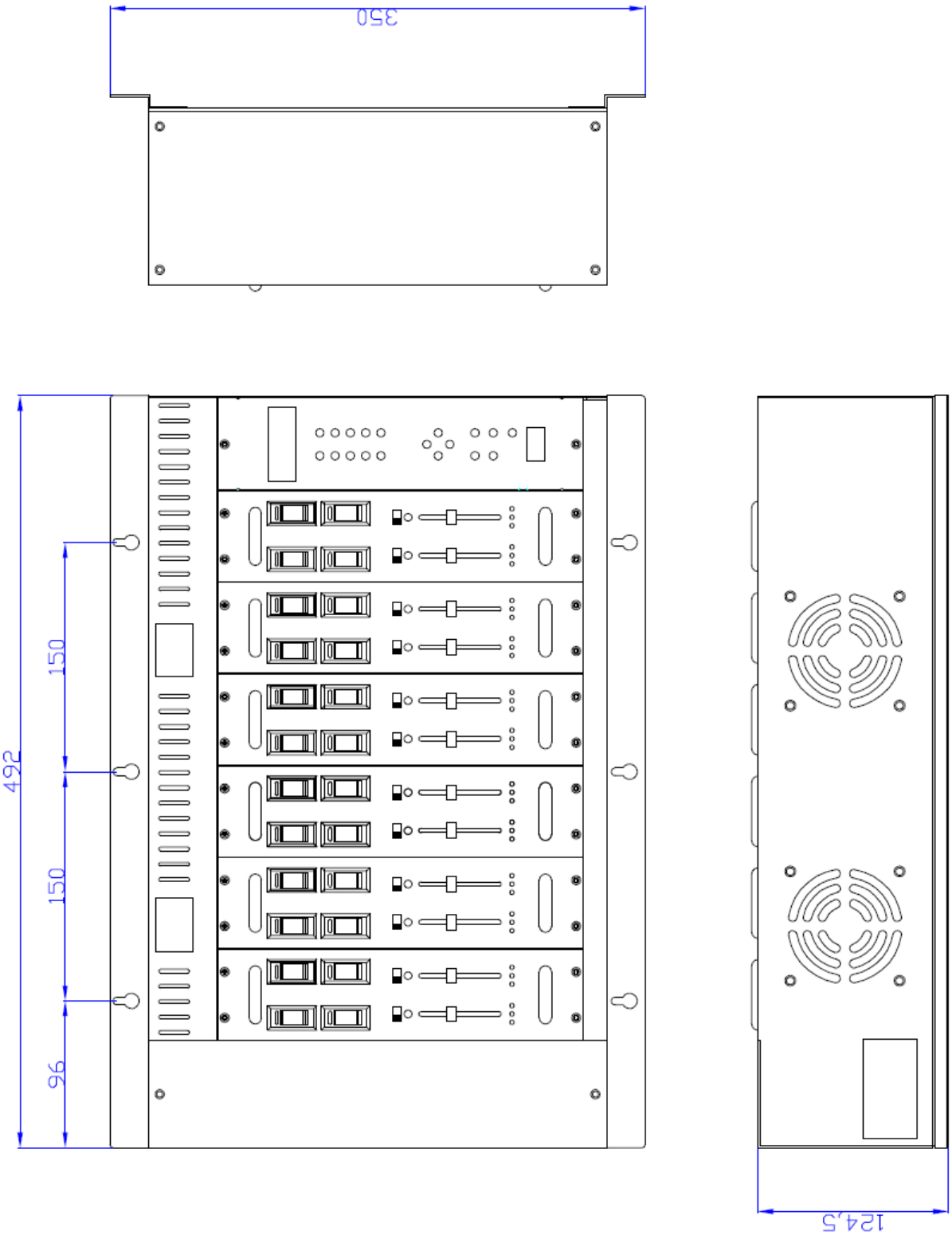
EDX-1210



EDX-620



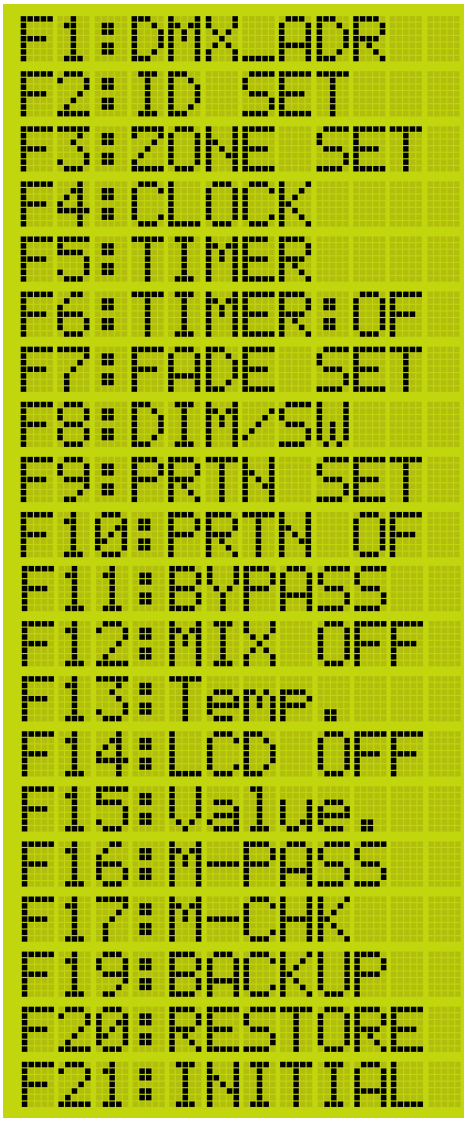
1-7 Dimension



2 Operations

2-1 Function List

After turning on the power, press 【**FNC**】 to enter main menu and press 【▲】or【▼】to select function,



F 1	**DMX-512 starting address setting**
F 2	**ID number setting**
F 3	**Zone setting**
F 4	**Clock setting**
F 5	**Time setting**
F 6	**Timer on/off setting**
F 7	**Scene fade time setting**
F 8	**Check dimming mode (DIM/SW/FLU) of each channel**
F 9	**Partition setting**
F10	**Partition on/off setting**
F11	**DMX-512 bypass function**
F12	**Mix (overlap) on/off setting**
F13	**Temperature detection funciton**
F14	**LCD backlight off setting**
F15	**Set minimum level of each output channel**
F19	**Data backup**
F20	**Data restore**
F21	**Initialization**

2-2 Initialization

STEP-1: Press 【**FNC**】to enter the menu. Select "**F21: INITIAL**", and LCD shows:

STEP-2: Press【 ▸ 】 ,【 ◂ 】to select Yes or No.

STEP-3: Press 【**ENTER**】to do initialization.

2-3 DMX-512 Start Address Setting

Although we would recommend applying RS- 485 rather than DMX-512 on EDX systems, EDX-1210 is still compatible with DMX-512. Note that DMX-512 controllers have higher priority than other EDX controllers.

STEP-1: Press 【**FNC**】to enter the menu. Select "**F1: DMX_ADR**", and LCD shows:

STEP-2: Press【▲】or【▼】to set DMX-512 starting address.

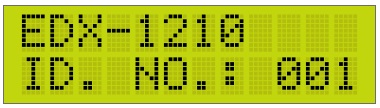
STEP-3: Press 【**ENTER**】to save the setting or press【**FNC**】to exit.

1. In DMX mode, there are 512 channels available for start channel address setting.
Example: (Each EDX-1210 can output 12 channels continuously.)
DMX Start Address: 001, its DMX signal can output from channel 1 to channel 12 continuously.
DMX Start Address: 007, its DMX signal can output from channel 7 to channel 18 continuously.
2. Duplicated DMX address is available. That is, two or more EDX-1210s can be set to the same DMX address.

2-4 ID Number Setting

Each EDX series device must have an ID number (The default setting is 001.). When one device's working alone, there is no need to adjust the ID number, but when several devices' working together, each device must have a different ID number.

STEP-1: Press 【**FNC**】to enter the menu. Select "**F2: ID SET** ", and LCD shows:



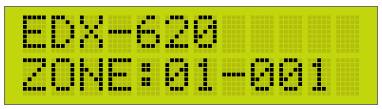
STEP-2: Press【▲】or【▼】to set the ID number.

STEP-3: Press 【**ENTER**】to save the setting or press【**FNC**】to exit.

2-5 Zone Setting

Definition of zone: In EDX system, the device must set the zone number before using, which consists of two parts, one is the zone number and another is the start channel.
For example: There are 4 EDX-1210 (48 channels in total) in zone 1, the zone number of each device should be 01-01,01-13,01-25,01-37 respectively.

STEP-1: Press 【**FNC**】to enter the menu. Select "**F3: ZONE SET** ", and LCD shows:



The two digit number, "01", is zone number. The three digit number, "001", is the starting channel.

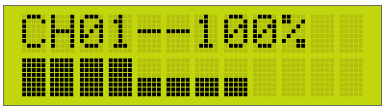
STEP-2: Press 【▸】 or 【◂】 to select between zone and start channel. Press【▲】or【▼】to set the number.

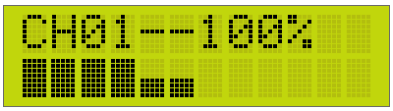
STEP-3: Press 【**ENTER**】to save the setting or press【**FNC**】to exit.

2-6 Save Scenes

STEP-1: Set EDX-1210 the dimming levels by the dimming sliders. For example, set channel 1 to 4 as 100% and set channel 5 to 8 as 50%；Set EDX-620 the dimming levels by the dimming sliders. For example, set channel 1 to 4 as 100% and set channel 5 to 6 as 50%

STEP-2: Press【▲】or【▼】to enter scene editing function.

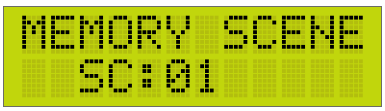




The LCD shows the current dimming level for each channel as (EDX-1210)12 and (EDX-620) 6 bars.

STEP-3: To further adjust the dimming level, press【▸】or【◂】to select a channel, and press【▲】or【▼】 to set the level of the channel.

STEP-4: Pres【**ENTER**】, LCD shows:



STEP-5: Press【▲】or【▼】to select a scene number to save the current dimming levels.

2-7 Recall Scenes

1. Press【**1**】~【**6**】to recall the 6 scenes directly.

2. Press scene buttons on DP-E01 control plate (optional) to recall the scene.

If SC1 ~ SC6 was preset with fade time (please check the remark):
Press 【1】 ~【6】once to recall the scene smoothly after the fade time.
Press 【1】 ~ 【6】 twice to recall the scene directly without the delay time.

2-8 Clock Setting

STEP-1: Press 【**FNC**】to enter the menu. Select "**F4: CLOCK** ", and LCD shows the system clock:

STEP-2: Press【▶】or【◀】 to select year/month/day/weekday/hour/minute/second.

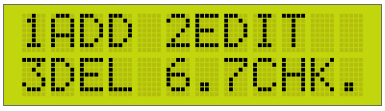
Press【▲】or【▼】to set the number.

STEP-3: Press 【**ENTER**】to save the setting or press【**FNC**】to exit.

2-9 Timer Setting

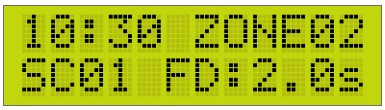
2-9-1 Add a Timer

STEP-1: Press 【**FNC**】to enter the menu. Select "**F5: TIMER** ", and LCD shows:



STEP-2 Press【**1**】to add a timer, LCD shows:

STEP-3: Press【▸】 or 【◂】 to select hour/minute/zone number/scene/fade time. Press【▲】or【▼】to set the number. In this example, we add a timer which recalls scene01 in zone02 with 2.0s fade time at 10:30:

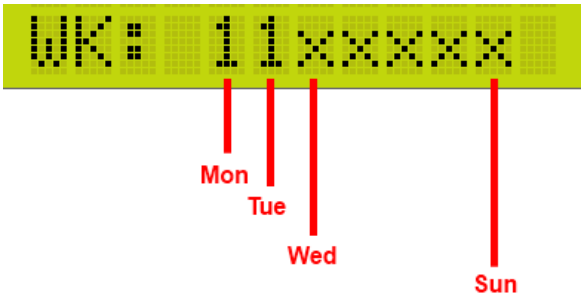


STEP-4: Press【▸】several times to enter weekday selection.

The LCD shows that the timer is enabled on Monday and Tuesday.

Each digit in the second row represents a weekday.

("x" means that the timer is disabled on the weekday; "1" means that the timer is disabled on the weekday)



STEP-5: Press【▸】 or 【◂】 to select a weekday, press【▲】or【▼】 to enable or disable the timer on the selected weekday.

In this example, we make the timer enabled every day:

STEP-6: Press 【**ENTER**】to save the setting or press【**FNC**】to exit.

2-10 Timer On/Off Setting

STEP-1: Press 【**FNC**】to enter the menu. Select "**F6: TIMER** ", and LCD shows:

STEP-2: Press【▶】or 【◀】 to select timer on or timer off. Press【▲】or【▼】to set the number.

STEP-4: Press【**ENTER**】to save the setting or press【**FNC**】to exit.

2-11 Fade Time Setting

STEP-1: Press 【**FNC**】to enter the menu. Select "**F7: FADE SET** ", and LCD shows:

STEP-2: Press【▶】or【◀】 to select scene number or fade time. Press【▲】or【▼】to set the number.

STEP-3: Press 【**ENTER**】to save the setting or press【**FNC**】to exit.

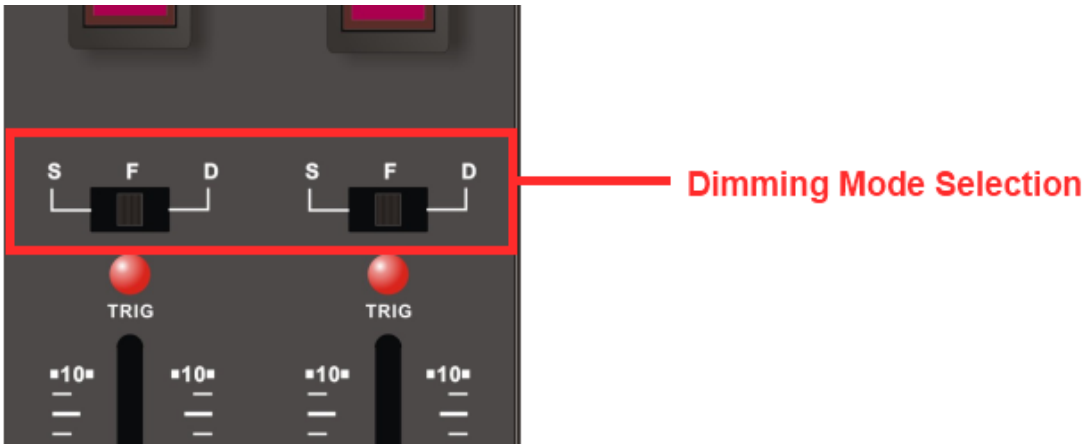
2-12 Set the Dimming Mode

To set the dimming mode, please use the slide switch on the panel of the dimming module.

D: Leading edge dimming

S: Switch mode (on/off)

F: Fluorescent mode (0-10V DC)



2-13 Check the Dimming Modes

(EDX-1210) STEP-1: Press 【**FNC**】to enter the menu. Select "**F8: DIM/SW "**, and LCD shows:

The LCD shows that channel 1 - 4 are in leading-edge dimming mode, "D"; channel 5 - 8 are in switch mode; channel 9 - 12 are in fluorescent mode.

D: Leading edge dimming

S: Switch mode (on/off)

F: Fluorescent mode (0-10V DC)

(EDX-620) STEP-1: Press 【**FNC**】to enter the menu. Select "**F8: DIM/SW "**, and LCD shows:

The LCD shows that channel 1 - 2 are in leading-edge dimming mode, "D"; channel 3-4 are in switch mode; channel 5 - 6 are in fluorescent mode.

D: Leading edge dimming

S: Switch mode (on/off)

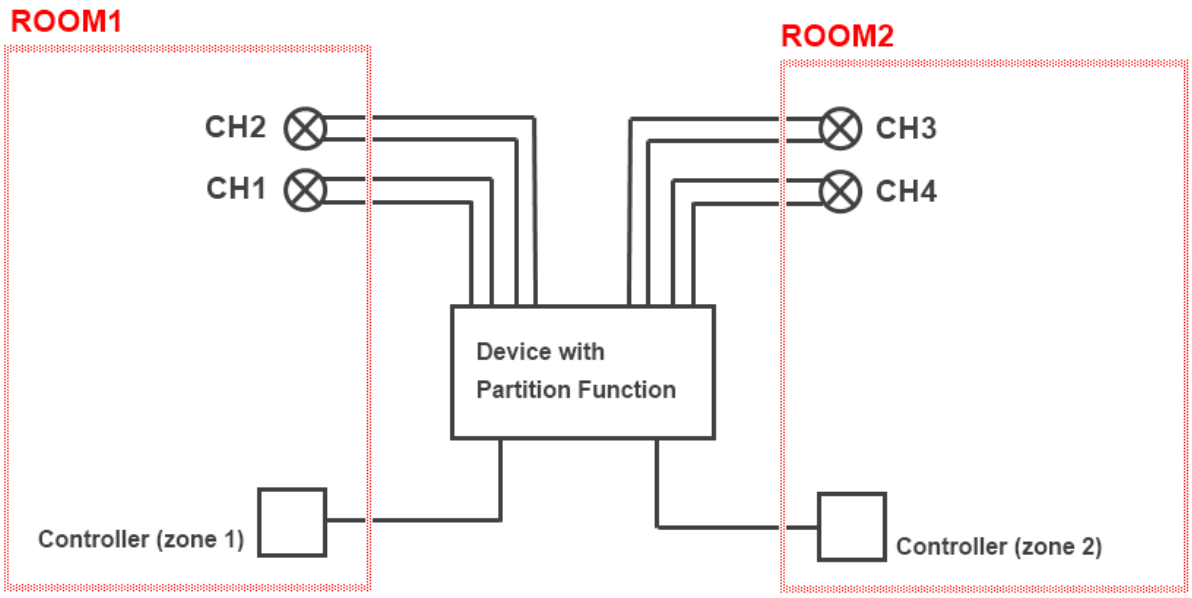
F: Fluorescent mode (0-10V DC)

2-14 Partition Setting

Usually, a EDX device can be set only one zone number. To make EDX system more flexible, by partition function, a EDX device can set each of its channels as different zone number. The function is useful only when partition on/off is set to on (please refer 2-14).

2-14-1 Application of Partition Function

If the device is a 4 channel dimmer and there are two rooms, each room needs 2 channels, the partition function is able to divide the 4 channels into 2 parts. Channel 1 to 2 are in partition 1 (zone 1); channel 3 to 4 are in partition 2 (zone 2). Install two controllers in each room, one is set to zone 1; the other is set to zone 2, and then you can control channel 1 and 2 by controller 1 and control channel 3 and 4 by controller 2.



2-14-2 Partition Setting

This feature is only valid when partition is ON. Please refer 2-15 to turn on partition setting.

STEP-1: Press 【**FNC**】to enter the menu. Select "F9: PRTN SET ", and LCD shows:

C01: 1st channel of QL-1210

P01: Zone 01

001: Start Address is 001

It means 1st channel of QL-1210 is in Zone 01. Its start address is 01.

STEP-2: Press 【▲】or 【▼】to select a channel. For example, we press 【▲】twice to select 3rd channel.

STEP-3: Press 【▶】once to switch the cursor to Zone (P01).

STEP-4: Press 【▲】or 【▼】to select a zone number. For example, we'd like to make 1st channel in zone 09.

STEP-5: Press 【▶】once to switch the cursor to start address (001).

STEP-6: Press【▲】or【▼】to select a start address. For example, we'd like to set start address to 20.

STEP-7: Repeat STEP-1 – STEP-6 to set other channels.

STEP-8: Press【**ENTER**】to save the setting or press【**FNC**】to exit.

2-15 Partition On/Off Setting

STEP-1: Press 【**FNC**】to enter the menu. Select "**F10: PRTN ON/OFF** ", and LCD shows:

STEP-2: Press【▶】or【◀】 to select between partition on or partition off.

STEP-3: Press【**ENTER**】to save the setting or press【**FNC**】to exit.

2-16 Bypass Setting

"Bypass On" means that the dimmer is not controlled by external DMX-512 signal.
"Bypass Off" means that the dimmer is able to be controlled by external DMX-512 signal.

STEP-1: Press 【**FNC**】to enter the menu. Select "**F11:BYPASS** ", and LCD shows:

STEP-2: Press【▸】 or 【◂】 to select between bypass on or bypass off.

STEP-3: Press 【**ENTER**】to save the setting or press【**FNC**】to exit.

2-17 Mix (Overlap) Setting

Generally, when one scene is recalled, the previous scene will be replaced. This function is to mix/overlap scene 5 or scene 6 to another scene. If you recall one of the scenes 1 to 4 first, 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. channel that is in both scenes, it will output at the higher dimming value.

STEP-1: Press 【**FNC**】to enter the menu. Select "**F12:MIX OFF** ", and LCD shows:

STEP-2: Press【▸】or【◂】 to select between ON or OFF.

STEP-3: Press 【**ENTER**】to save the setting or press【**FNC**】to exit.

2-18 Temperature

STEP-1: Press 【**FNC**】to enter the menu. Select "**F13: Temp.** ", and LCD shows:

It means that the temperature of module1 is 30℃.

STEP-2: Press【▸】or【◂】 to view the temperature of other channels.

2-19 LCD Off Time Setting

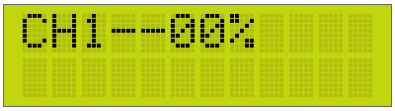
STEP-1: Press 【**FNC**】to enter the menu. Select "**F14: LCD OFF. "**, and LCD shows:

It means that the LCD will be turned off by idling 60 seconds.

STEP-2: Press【 ▸ 】or【 ◂ 】 to select the time.

2-20 Set Minimum Level of Each Output

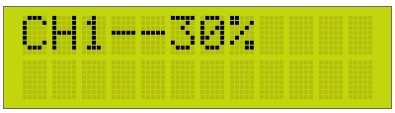
STEP-1: Press 【**FNC**】to enter the menu. Select "**F15: Value.**", and LCD shows:



The above figure shows that the minimum level of channel 1 is 0%.

Press 【 ▲ 】or【 ▼ 】to set minimum level of the channel.

The minimum level can be set from 0% to 40%.

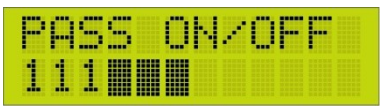


(You can set minimum level to 30% to skip 0-29% brightness to avoid flicker issue)

STEP-2: Press 【 ▸ 】or【 ◂ 】to select other channels to set the minimum level.

2-21 Module Bypass

STEP-1: Press 【**FNC**】to enter the menu. Select "**F16:M-PASS "**, and LCD shows:

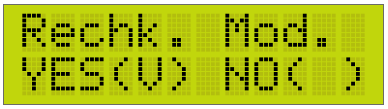


STEP-2:Press【 ▲ 】or【 ▼ 】to select open or close function.

It means that the module 1-3 when Interface cpu damage will Full voltage output ,module 4-6 will current status remains.

2-22 Module Check

STEP-1: Press 【**FNC**】to enter the menu. Select "**F16:M-CHK** ", and LCD shows:



STEP-2: Press【 ▸ 】or【 ◂ 】 to select YES or NO to check the number of modules

2-23 Backup Data

STEP-1: Press 【**FNC**】to enter the menu. Select "**F19: BACKUP**", and LCD shows:

STEP-2: Press【 ▸ 】or【 ◂ 】to select Yes or No and then press【**ENTER**】.

2-24 Restore Data

STEP-1: Press 【**FNC**】to enter the menu. Select "**F20: RESTORE**", and LCD shows:

STEP-2: Press【 ▸ 】or【 ◂ 】to select Yes or No and then press【**ENTER**】.

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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