

DX-1228

DMX 12 Channels Modular Power Pack

【User Manual】



Lite-Puter Enterprise Co., Ltd.

Website : www.liteputer.com.tw

Email : sales@liteputer.com.tw

INDEX

CHAPTER ONE INTRODUCTION	2
1-1 FEATURE	2
1-2 INSTRUCTURE	2
1-3 SPECIFICATION	2
1-4 DIMENSION	3
1-5 FRONT PANEL INTRODUCTION	3
1-6 CONNECTION OF DMX&ANALOG	5
CHAPTER TWO OPERATION	6
2-1 MEMORY INITIALIZATION	6
2-2 DMX START ADDRESS SETTING	6
2-3 MANUAL SETTING OF ONE CHANNEL'S DIMMING VALUE	7
2-4 DISCONTINUOUS DMX ADDRESS SETTING	8
2-5 DIMMING CURVE SELECTION	8
2-6 SWITCH / DIMMING SELECTION	10
CHAPTER THREE MODE SELECTION	11
3-1 DMX MODE	11
3-2 ANALOG MODE	11
3-3 TEST MODE	12
3-4 OFF MODE	12
4-1 FIXTURE WARM UP SETTING 0~6%	13
4-2 MAXIMUM OUTPUT LIMIT	14
4-3 INPUT AC VOLTAGE VIEW	14
CHAPTER FIVE WIRING DIAGRAM	15
GUARANTEE	16

Chapter One Introduction

1-1 Feature

- Extractable module design .
- Accept either DMX-512 signal or Analog 0-10V DC signal.
- Thermo- controlled fan system. When the temperature over the limit, all output will be stopped.
- Maximum voltage limit function .
- Auto frequency tracking function. Change automatically from 45 to 63Hz.
- Dimming test function for each channel or all channels.
- Each channel can be set as dimming or non-dimming(switch)
- 10 dimming curves available .
- 90-240V AC.
- Self-test function to test without a console.
- Display channel's dimming value and internal temperature.
- Each or all channels can be set warm-up 0---6.0% to protect the fixture.

1-2 Instructure

■Modular design:

It is easy to replace, repair and change each independent module and update software.

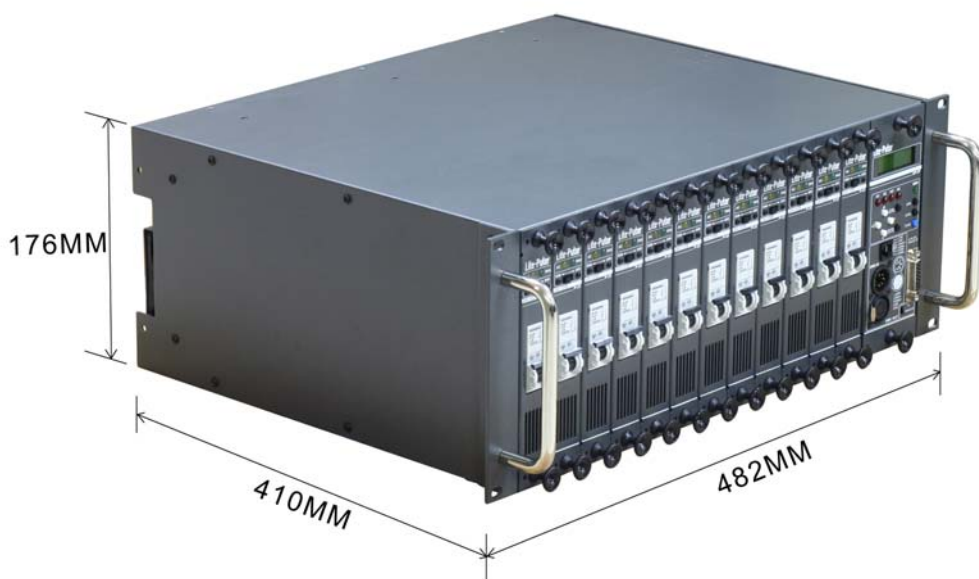
- **25A magnetic circuit breaker on each module.**
- 4 groups of thermo- controlled fan (37CFM X 4)
- SSR : SR-40R TUV certificate
- TRIAC : 40A/600V (75°C) Itrms=40A



1-3 Specification

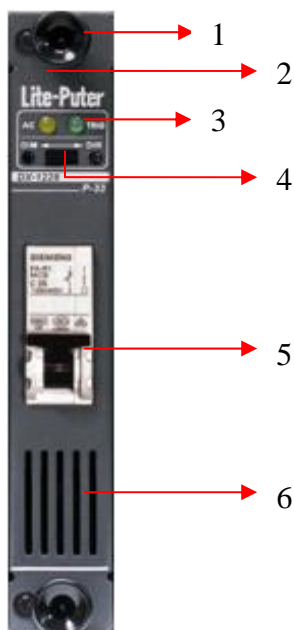
- Power Supply : 90 - 240VAC , 45 -- 63HZ.
- Load : **25A MAX output per channel**
- Protocol : DMX512 / 1990
- Analog Signal input channel : 12 channels , 0 -- 10VDC.
- Dimension: : 482(W) x 176(H) x 410(D)mm **19" 4U**
- Weight : 28kg

1-4 Dimension



1-5 Front Panel Introduction

P33 Panel Introduction



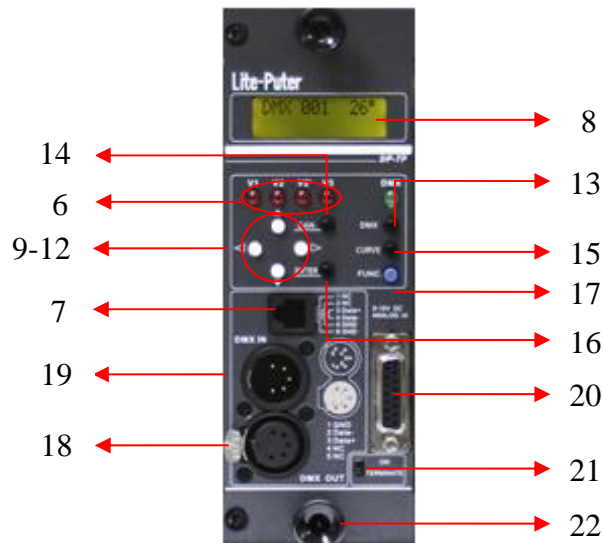
- [1] Unlock/Lock knob
- [2] LED (input indicator)
- [3] LED (TRIG indicator)
- [4] Forced Output shift switch
- [5] Magnetic circuit breaker

[6] Ventilator

P-33 Specification

- ◆ AC INPUT : 90 --- 240VAC
- ◆ AC OUTPUT: 25A MAX
- ◆ CONTROL INPUT : 4 --- 12VDC
- ◆ Dimension:30 * 176 * 292.6 mm (W * H * D)
- ◆ Weight: 1.1Kg

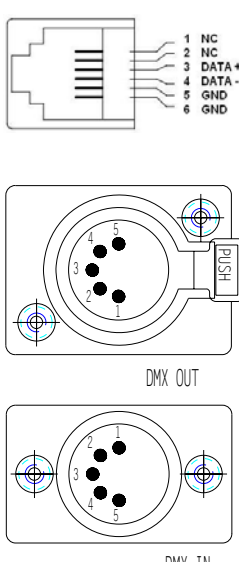
DP-7F Panel Introduction



- [6] Phase input indicator
- [7] DMX signal input indicator
- [8] LCD display
- [9- 12] ▲ ▼ ◀ ▶
- [13] DMX
- [14] CANCEL
- [15] CURVE
- [16] ENTER
- [17] FUNC
- [18] 5 PIN DMX out connector
- [19] 5 PIN DMX in connector
- [20] 0-10VDC analog in connector
- [21] Terminate switch
- [22] Unlock/Lock knob

1-6 Connection of DMX&ANALOG

Notice: the PIN 1 of XLR 5 PIN connection can't touch the case of DX-1228.



DMX Connection

PhoneJack

PIN 1: NC
 PIN 2: NC
 PIN 3: DATA -
 PIN 4: DATA +
 PIN 5: GND
 PIN 6: GND

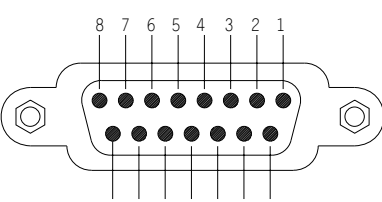
XLR 5pin

PIN 1: GND
 PIN 2: DATA -
 PIN 3: DATA +
 PIN 4: NC
 PIN 5: NC

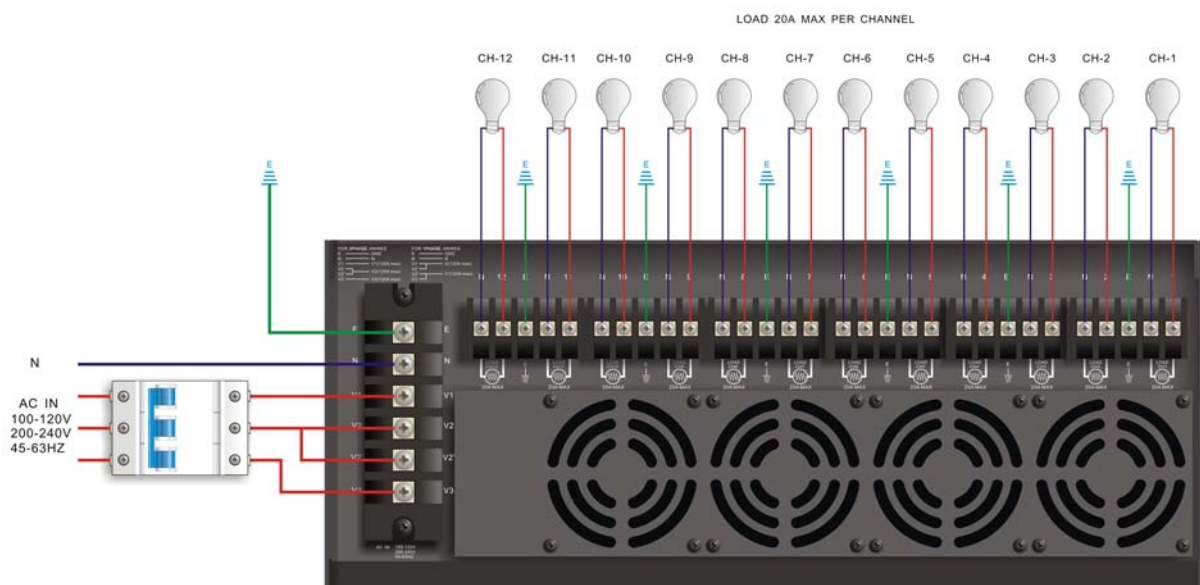
Analog Connection

D-type 15pin

PIN 1: CH-1
 PIN 2: CH-2
 PIN 3: CH-3
 -
 PIN 12: CH-12
 PIN 13: NC
 PIN 14: DC OUTPUT
 +12V / 100mA
 PIN 15: GND



1-7 Real Panel Introduction



Chapter Two Operation

2-1 Memory Initialization

STEP-1 Press **【FUNC】** and LCD displays,

<p>→M1 : DMX M2 : ANALOG</p>

STEP-2 Press **【▼】** to move the arrow head till LCD displays,

<p>F3 : AC VIEW →F4 : INITIAL</p>

STEP-3 Press **【ENTER】** to enter memory initialization function and LCD displays ,

<p>SHIP INITIAL Yes(<input type="checkbox"/>), No(<input checked="" type="checkbox"/>)</p>
--

STEP-4 Press **【◀】** to move the behind the YES and press **【ENTER】** to save the setting,

<p>SHIP INITIAL PLEASE WAIT</p>

After initialization, LCD will displays,

<p>DMX 001 20°</p>

2-2 DMX Start Address Setting

The standard DMX signal outputs 512 channels , and DX-1228 can control 12 continuous channels out of these 512 channels; the address of the first channel out of these 12 continuous channels is the start address of this DX-1228.

STEP-1 On DMX mode , hold **【DMX】** and press any one from **【▲】** , **【◀】** , **【▶】** , **【▼】** at the same time to change DMX start address

DMX 001 20°

【DMX】 + **【▲】** = DMX address + 12 for example: change d001 to d013

【DMX】 + **【▶】** = DMX address +1 for example: change d001 to d002

【DMX】 + **【◀】** = DMX address - 1 for example: change d001 to d512

【DMX】 + **【▼】** = DMX 001 for example: change d020 to d001

STEP-2 For example, the current DMX start address is 1, press **【DMX】** + **【▲】** and LCD displays,

DMX 013 20°

2-3 Manual Setting of One Channel's Dimming Value

STEP-1 On DMX mode, press **【◀】** or **【▶】** and LCD displays,

CH01 -- 00%
DMX : 001

STEP-2 Hold **【DMX】** and press **【▲】** or **【▼】** to change the channel address, For example , change the channel address to d013 and LCD displays

CH13 -- 00%
DMX : 002

STEP-3 Press **【▲】** or **【▼】** to change the dimming value, For example, press **【▲】** and LCD displays,

CH13 -- 20%
DMX : 002

2-4 Discontinuous DMX Address Setting

STEP-1 On DMX mode, press **【◀】** or **【▶】** and LCD display,

CH01	--	00%
DMX :	001	

STEP-2 Press **【◀】** or **【▶】** to change the channel address,
For example, press **【▶】** and LCD displays,

CH02	--	00%
DMX :	002	

STEP-3 Hold **【DMX】** and press **【▲】** or **【▼】** to change the DMX address of this channel,

On usual, the channel 1's DMX address should be 1, but now channel 1's DMX address can be any DMX address from 1 to 512.

CH02	--	00%
DMX :	003	

STEP-4 Press **【ENTER】** to save the setting and LCD displays,

DMX	20°
-----	-----

After setting, LCD will not display device's start channel address.

2-5 Dimming Curve Selection

There are 10 kinds of dimming curves: C1.0 POWER、C1.15 C+4、C1.3 C+3、C1.5 C+2、C1.7 C+1、C2.0 SQUARE、C2.3 JATET A、C2.7 JATET B、C-ORIGINAL、C-SWITCH

STEP-1 On DMX mode, press **【◀】** or **【▶】** and LCD displays,

CH01	--	00%
DMX :	001	

STEP-2 Press **【CURVE】** to enter dimming curve selection and LCD displays ,

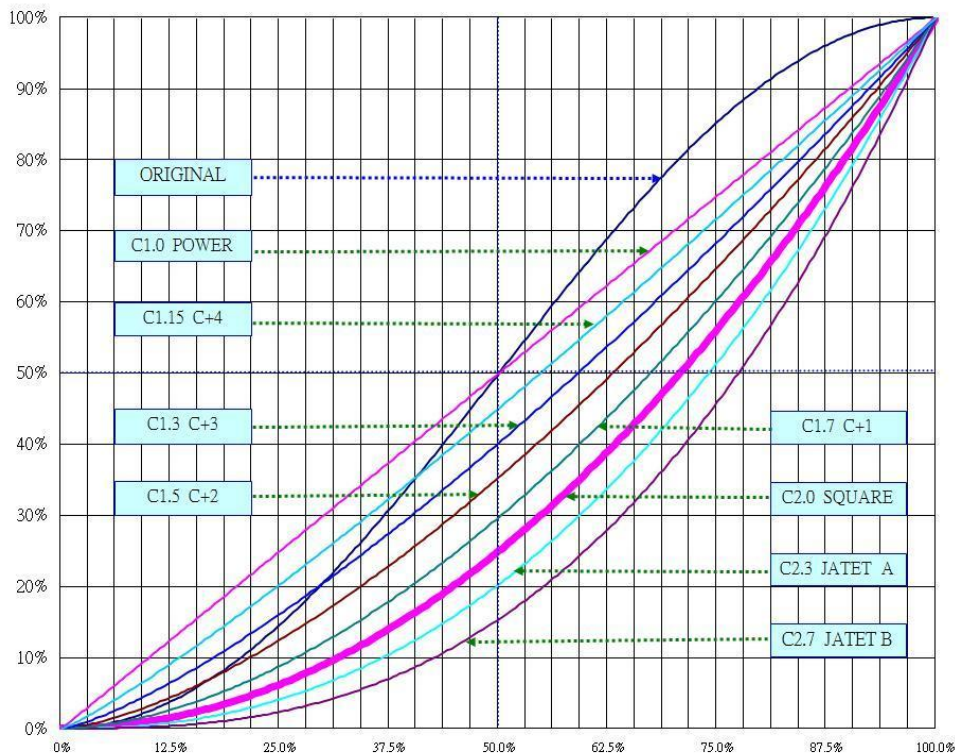
<p>ALL : -- 00% C2.0 SQUARE</p>
--

STEP-3 Hold **【CURVE】** and press **【▲】** or **【▼】** to select the dimming curve,
 For example, press **【▲】** and LCD displays ,

<p>ALL : -- 00% C1.7 C+1</p>

Each channel can be set as different dimming curve.

Default setting is C2.0 SQUARE



2-6 Switch / Dimming Selection

STEP-1 On DMX mode, press **【◀】** or **【▶】** and LCD displays

CH01	--	00%
DMX :	001	

STEP-2 Press **【CURVE】** to enter dimming curve selection and LCD displays ,

ALL :	--	00%
C2.0	SQUARE	

STEP-3 Hold **【CURVE】** and press **【▼】** to set this channel as non-dimming (switch) and LCD displays,

ALL :	--	00%
C-	SWITCH	

STEP-4 Press **【ENTER】** to save the setting and LCD displays,

DMX	001	20°
-----	-----	-----

Before use, please make sure and verify all the equipment is setted correctly, because that some fixtures are not dimmable and mal-usage may cause damage.

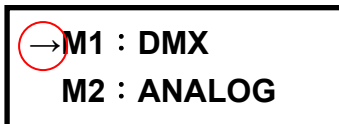
- If any channel set as switch function, when the input over 51%, the channel will be full load; when the input less than 20% , the channel will be turn off. This function can avoid fixture's blinking.
- If any channel set as switch function, then the warm up and the voltage output limit function are not available.
- Dimmable fixture for DX-1228: incandescent lamp, halogens lamp, and low voltage halogens lamp(with electronic transformer)
- Undimmable fixture for DX-1228: fluorescent lamp, mercury lamp, metal halide lamp and High &Low sodium lamp.
- All the channel's default setting is dimming function.

Chapter Three Mode Selection

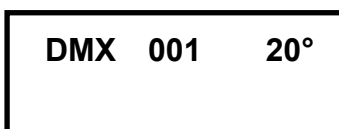
3-1 DMX Mode

On DMX mode, DX-1228's controlled by DMX-512 signal.

STEP-1 Press **【FUNC】** and LCD displays,



STEP-2 Press **【ENTER】** to enter DMX mode and LCD displays,

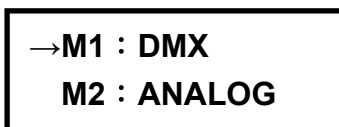


On DMX mode, the console can control the channels of DX-1228.

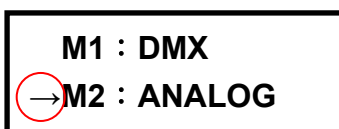
3-2 ANALOG Mode

On ANALOG, DX-1228's controlled by analog signal.

STEP-1 Press **【FUNC】** and LCD displays,



STEP-2 Press **【▼】** to move the arrow head till the LCD displays,



STEP-3 Press **【ENTER】** to enter analog mode and LCD displays,



On analog mode, the console 's analog signal can control the channels of DX-1228.

Chapter Four FUNCTION

4-1 Fixture Warm Up Setting 0~6%

STEP-1 Press **【FUNC】** and LCD displays,

→M1 : DMX
M2 : ANALOG

STEP-2 Press **【▼】** to move the arrow head till the LCD displays,

→F1 : WARM UP

STEP-3 Press **【ENTER】** to fixture warm up setting and LCD displays,

WARM UP
AL CH — 00%

STEP-4 Press **【▲】** to set all channels's warm up value and LCD displays,

WARM UP
AL CH — 01%

AL stands for all.

STEP-5 Press **【◀】** or **【▶】** to change channel address,

For example, press **【▶】** and LCD displays ,

WARM UP
CH 01 — 01%

STEP-6 Press **【▲】** or **【▼】** to change the warm up value of this channel,

For example, press **【▲】** and LCD displays,

WARM UP
CH 01 — 02%

When one channel set as the non-dimming (switch) channel, the warm up setting will be useless.

4-2 Maximum Output Limit

STEP-1 Press **【FUNC】** and LCD displays,

→M1 : DMX
M2 : ANALOG

STEP-2 Press **【▼】** to move the arrow head till the LCD displays,

F1 : WARM UP
→F2 : MAX OUT

STEP-3 Press **【ENTER】** to enter maximum output limit setting and LCD displays,

MAX OUT = 100%

STEP-4 Press **【▼】** to change the value and LCD displays,

MAX OUT = 99%

1. When one channel set as the non-dimming (switch) channel, the maximum output limit setting will be useless.
2. The default setting is 100%.

4-3 Input AC Voltage View

STEP-1 Press **【FUNC】** and LCD displays,

→M1 : DMX
M2 : ANALOG

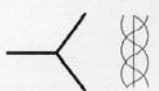
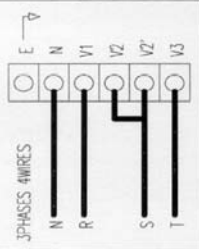
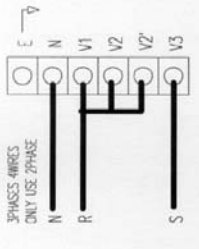
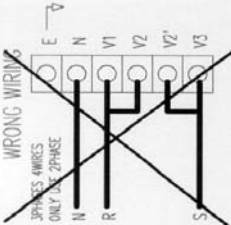

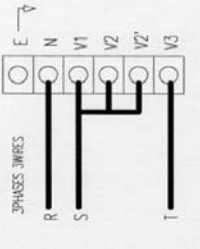
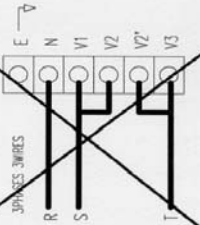
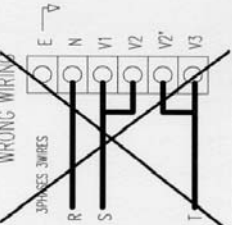

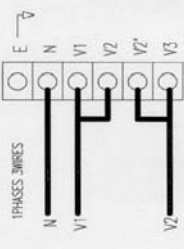

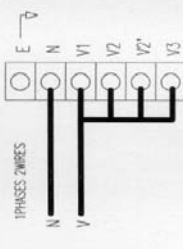
STEP-2 Press **【▼】** to move the arrow head till the LCD displays,

F2 : MAX OUT
→F3 : AC VIEW

STEP-3 Press **【ENTER】** to enter input AC voltage view and LCD displays,

VOLT . & FREQ .
223V – 60Hz

Chapter Five Wiring Diagram

<p>3PHASES 4WIRES</p> 	<p>THE BEST WIRING DIAGRAM</p> 	<p>3PHASES 4WIRES ONLY USE 2PHASE</p> 	<p>WRONG WIRING</p> 
<p>3PHASE 3WIRES</p> 	<p>3PHASES 3WIRES</p> 	<p>3PHASES 3WIRES</p> 	<p>WRONG WIRING</p> 
<p>SINGLE PHASE 3WIRES</p> 	<p>USED FOR SINGLE PHASE ONLY</p> 	<p>USED FOR SINGLE PHASE ONLY! SPECIAL DESIGN FOR JAPANESE MARKET.</p>	
<p>SINGLE PHASE 2WIRES</p> 	<p>1PHASES 2WIRES</p> 		
<p>NOTE</p>	<p>*** ANY TIME V2 AND V2' MUST BE CONNECTED TO SAME PHASE</p>		

Guarantee

Lite-Puter promises to fulfill the following acceptances:

1. Lite-Puter is only responsible for DX-1228 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
A	First version
B	Change chapter five wiring diagram

Issued on: July, 2010

Lite-Puter

World Headquarter:

Lite-Puter Enterprise Co., Ltd.

Address: 9F, No. 196, Sec. 3, Da Tung Rd., Shijr City, Taipei, Taiwan

Zip Code: 22103

Tel: +886-2-86472828

Fax: +886-2-86472727

Website: www.liteputer.com.tw

E-mail: sales@liteputer.com.tw

Shanghai Factory:

Lite-Puter Technology (Shanghai) Co., Ltd.

Address: Building B5, No. 298, Lane 3509, Hongmei S. Road, Shanghai, China

Zip Code: 201108

Tel: +86-21-54408210

Fax: +86-21-64978079

Shanghai Sales Center:

Address: Room 701, Building Gem, No. 487, Tianlin Road, Shanghai, China

Zip Code: 201103

Tel: +86-21-33674316/33674850

Fax: +86-21-33674013

Website: www.liteputer.com.cn

E-mail: sales_china@liteputer.com.tw