

PD Series Digital Dimmers

Operations Manual

Ver 3.15

CODE ELECTRONIC CO., LTD.

<http://www.codelight.com>

Welcome to use CODE PD Series Digital Dimmers. CODE PD Series products meet DMX-512/1990 standard digital control signal. It is suited for using with a console that generates DMX-512/1990 control signal; thereby they are easily constituted a digital light dimming control system. Its EMI is very low. So greatly, they are used for light dimming in council houses, TV studios, theatres, troupes, danceries, etc.

WARNING: Must be earthed so as to ensure security of the equipment and operator. There is hazardous voltage in PD dimmer. Do not open its cover without authorization!

1. Specifications

- DMX512 digital optoisolator input.
- 4-row X 20 characters LCD display.
- Dimming channels and output power:

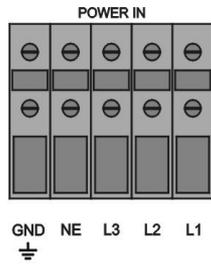
Model	Channels	Rated Current	220Vac Supply	110Vac Supply
PD 1202	12	10A per ch.	2KW per ch.	1KW per ch.
PD 604	6	20A per ch.	4KW per ch.	2KW per ch.
PD 606	6	30A per ch.	6KW per ch.	3KW per ch.

- Dimming precision up to 2000 level.
- 10 dimming curves: Every channel can be chosen independently or all together.
- 0-20% warm-up adjustable to every channel or whole channels.
- Soft-starting can prolong life of tungsten lamps.
- When DMX signal is broken off, every channel's output can be hold. "Background" will not be caused.
- 12 scenes can be stored or recalled,
- The dimming level of every channel can be adjusted independently or all together without any console.
- High precision zero-crossing sampling, the output consistency of channels is better.
- High-performance anti-interference chokes, less electric harmonic and lower electromagnetic noises.
- Double protected: Electronic circuits and fast breakers.
- Independent overload protect, short circuit protect, and power components overheating protect.
- Outputs be resumed automatically after the trouble be obviated.
- Fans speed change according to the working temperature automatically.
- Voltage limit function: When voltages of mains supply are higher than the local standard, its outputs can be limited automatically, and the lamps will be safe.
- DMX incepting address can be displayed and modified.
- Frequency of mains supply can be autotracked and displayed
- Every phase voltage of mains supply can be measured and displayed in real time.
- The dimming levels of channels can be displayed in real time.
- Working temperature can be measured and displayed in real time.
- Abnormal state warning and displayed.
- DMX input connector: XLR-D5M (type "C"), or XLR-D3M (type "S").
- DMX through connector: XLR-D5F (type "C"), or XLR-D3F (type "S").
- Mains supply: Phase voltage AC100-240V, Cycle frequency 47-63Hz, 3-phase or single phase.
- Dimension and Weight:

Model	Dimension	Weight
PD 1202	19",3U; 482mm×133mm×510mm	19.3kg
PD 604	19",3U; 482mm×133mm×510mm	18.5kg
PD 606	19",3U; 482mm×133mm×510mm	20.9kg

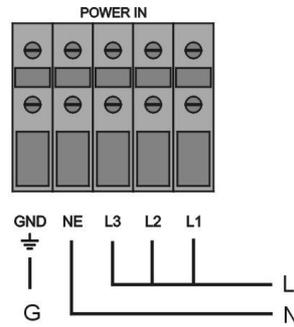
3. Mains Supply Connection

This device can use 3-phase supply (do not mind the phase sequence), also can use single phase supply.



3-phase mains supply connection

Inner working power source is connected to L1(A) phase!

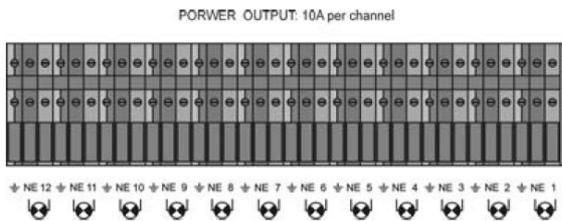


Single phase mains supply connection

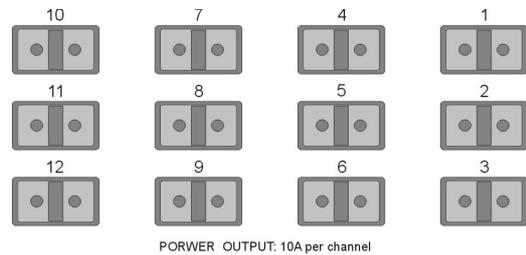
4. Loads Connection

Connect loads to PD Dimmer's outlet

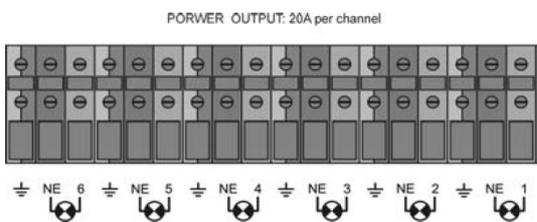
PD 1202-C Power Output (10A per Channel)



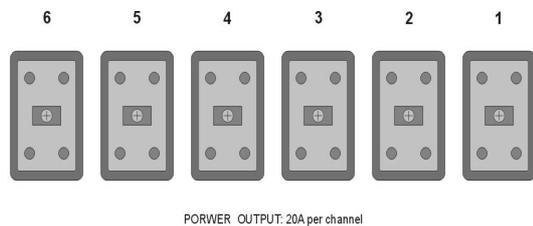
PD 1202-S Power Output (10A per Channel)



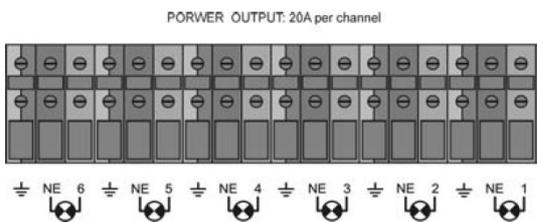
PD 604-C Power Output (20A per Channel)



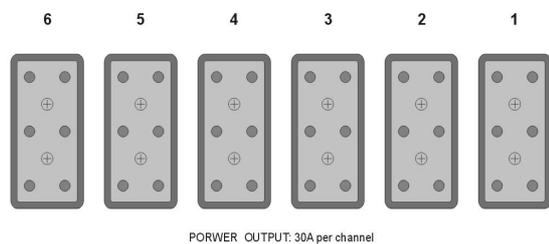
PD 604-S Power Output (total 20A per Channel)



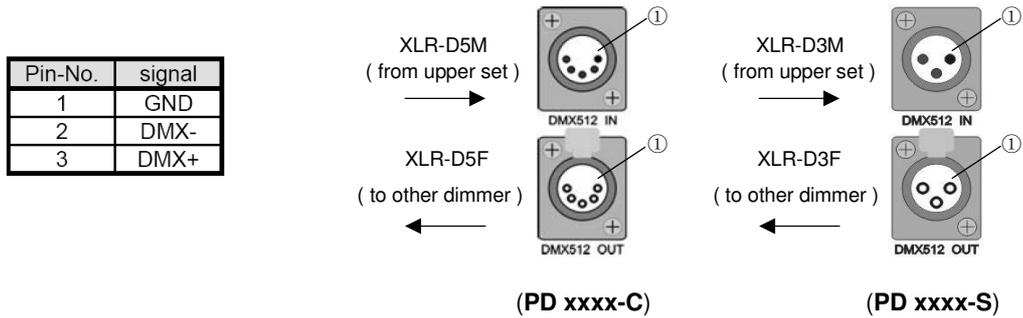
PD 606-C Power Output (30A per Channel)



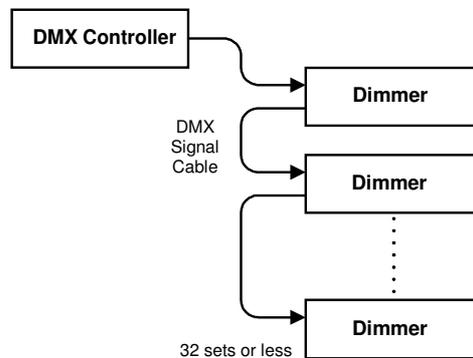
PD 606-S Power Output (total 30A per Channel)



5. DMX Digital Signal Communication



6. Dimmers Connecting with a Console



7. Working Power Switch (with a pilot lamp)

The power switch connected at L1(A) phase only controls the control circuits inside the dimmer. 

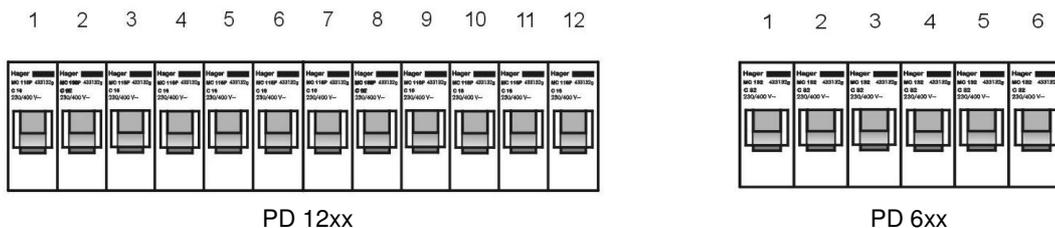
WARNING: When the Power switch is turn off, inner power parts and electric terminals still have high voltage. Do not touch the electric terminals! Do not open the cover!

8. Protect of Working Power

One T1A/250V fuse (Φ5 x 20mm) in series with the power switch is mounted on the rear panel.  T1A/250Vac
If the working power connecting was mistake, the fuse breaks immediately to make the inside circuits be safe.

Must use the same specification fuse for replacing!

9. Protect of Dimmer Channels



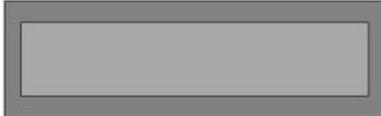
Each dimming channel has a fast breaker for protection backup while the load over current or short circuit. With the cooperative effect of the inside electronic protector, it further enhances the dimmer's safety and dependability when the load over current or short circuit.

10. Device Startup

After connecting as above 3-6 section, turn on the power switch of the console to send out DMX512 digital signal. Then turn on the power switch of PD dimmer to make it enters operating state. When the dimmer is operating, you can modify DMX512 incepting address again by the LCD menu at any time if necessary.

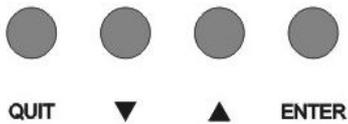
PD series dimmers have simple and direct manual operation modes. Under "manual dimming" or "recall scenes" mode, it can provide normal output to every channel without any console connected.

11. Display (LCD)



There is a 4 (row) X 20 = 80 characters LCD on the front panel, you can enter each layer menu to set up operation parameters or inquire status information by pressing keys on the front panel.

12. Operation Keys



Four touch keys, combination with them, you can realize to use that set up operation parameter and information inquiry for all adjustable items.

- Return to the previous layer of menu until the main menu.
- (DOWN) ----- Roll or decrease the parameter value in the square bracket.
- (UP) ----- Roll or increase the parameter value in the square bracket.
- Accept the selected parameter(s) or enter the next layer of menu.

13. Menu Operation

After power on, and into the normal operating state, four rows of LCD display as follows:

```
CODE Electronic Inc.
Thyristor Dimmer
PDxxxx Ver. x.xx
DMX Address: xxx
```

The detail vide: **【Annex A】 < Menu Operation Flow Chart >**

This is the "main menu".

Press to enter the menu operation state.

Press or to choose various function items:

Item 01: Set DMX Address DMX add. in system: from 1 to 512	Item 02: Set Warm-up (%) Warm-up value: from 0 to 20%	Item 03: Set Dimming Curves Dimming curves: from 1 to 10	Item 04: Manual Dimming Dimming levels: from 0 to 255	Item 05: Record Scenes Recordable scene No.: from 1 to 12
Item 06: Recall Scenes Recallable scene No.: from 1 to 12	Item 07: View Dimming Levels: External DMX level Manual dimming level	Item 08: View Working Status: Mains power supply Device temperature	Item 09: Set Local PS Voltage Mains ps voltage: from xxxV to vvvV	Item 10: Set Default to All Warning! Your data will lost.

Press into the next step.

Operation Note:

Pressing **QUIT** will return to the previous layer of menu, and pressing this key more once may quit from bottom menu to main menu.

When a certain parameter appears in the square bracket, pressing **▲** or **▼** can increase or decrease its value, press **ENTER** to confirm it.

When appear "Yes or No?" flickering inquiry message, press **▲** or **▼** to change choosing.

Then Press **ENTER** to confirm it which is flickering parameter.

In menu operation state, it will return to the main menu automatically at 30th second after last once pressing-key except "Manual Dimming" mode and "Recall Scenes" mode.

13-01. Set DMX Address

Item 01:
Set DMX Address
DMX add. in system:
from 1 to 512

1) Press **ENTER** into **Select DMX address = [xxx]
Select by UP or DOWN
Confirm by ENTER**, the value in square bracket reveals current DMX incepting address;

2) Press **▲** or **▼**, the number should be circulated to change from 1 to 512, if need to increase or decrease the value quickly, you can long press **▲** or **▼**;

3) Finish revising, press **ENTER** to confirm it; **Current DMX address = yyy
ENTER -set again
QUIT -return Item 01**

4) Set again by **ENTER**, or return by **QUIT**, or return to the main menu automatically after 30 seconds.

13-02. Set Warm-up

Item 02:
Set Warm-up (%)
Warm-up value:
from 0 to 20%

1) Press **ENTER** into **Select channel No. [All] = xx %
Select by UP or DOWN
Confirm by ENTER**, the value in square bracket reveals current channel's name;

2) Press **▲** or **▼** to select the appointed channel or all channels as the same;

**Select channel No. [CH01] = xx %
Select by UP or DOWN
Confirm by ENTER** or **Select channel No. [CH02] = xx %
Select by UP or DOWN
Confirm by ENTER** or ... or **Select channel No. [All] = xx %
Select by UP or DOWN
Confirm by ENTER**;

3) Press **ENTER** into **Set warm-up value: CH01 = [xx] %
Set by UP or DOWN
Confirm by ENTER** or **Set warm-up value: CH02 = [xx] %
Set by UP or DOWN
Confirm by ENTER** or ... or **Set warm-up value: All = [xx] %
Set by UP or DOWN
Confirm by ENTER**;

4) Press **▲** or **▼**, the preheating value percentage of this channel or whole channels be adjusted;

5) Press **ENTER** to confirm it. One by one, if necessary.

**Current warm-up: CH01 = yy %
ENTER -continue
QUIT -return Item 02** or **Current warm-up: CH02 = yy %
ENTER -continue
QUIT -return Item 02** or ... or **Current warm-up: All = yy %
ENTER -continue
QUIT -return Item 02**;

6) Set again by **ENTER**, or return by **QUIT**, or return to the main menu automatically after 30 seconds.

13-03. Set Dimming Curves

Item 03:
Set Dimming Curves
Dimming curves:
from 1 to 10

1) Press **ENTER** into Select channel No.
[All] = x('y')
Select by UP or DOWN
Confirm by ENTER, the value in square bracket reveals current channel's name;

2) Press **▲** or **▼** to select the appointed channel or all channels as the same;

Select channel No.
[CH01] = x('y')
Select by UP or DOWN
Confirm by ENTER or Select channel No.
[CH02] = x('y')
Select by UP or DOWN
Confirm by ENTER or ... or Select channel No.
[All] = x('y')
Select by UP or DOWN
Confirm by ENTER ;

3) Press **ENTER** into Set dimming curve:
CH01 = [x('y')]
Set by UP or DOWN
Confirm by ENTER or Set dimming curve:
CH02 = [x('y')]
Set by UP or DOWN
Confirm by ENTER or ... or Set dimming curve:
All = [x('y')]
Set by UP or DOWN
Confirm by ENTER ;

4) Press **▲** or **▼**, the number of dimming curve of this channel or whole channels be selected;

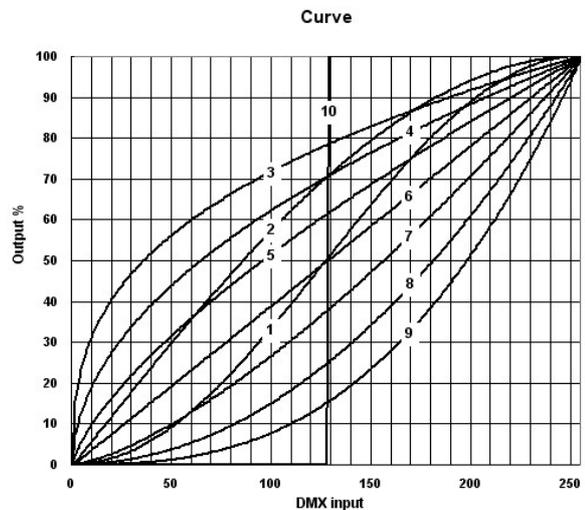
5) Press **ENTER** to confirm it. One by one, if necessary.

Current curve:
CH01 = y('x')
ENTER -continue
QUIT -return Item 03 or Current curve:
CH02 = y('x')
ENTER -continue
QUIT -return Item 03 or ... or Current curve:
All = y('x')
ENTER -continue
QUIT -return Item 03 ;

6) Set again by **ENTER**, or return by **QUIT**, or return to the main menu automatically after 30 seconds.

Curve No. vs its attribute and description

Curve No	Attribute	Description
1	S	"S" shape
2	SINE	Sine of voltage
3	y.35	Linear luminance
4	y=.5	$\gamma = .5$
5	y=.7	Linear power
6	y=1	Linear voltage
7	y1.4	$\gamma = 1.4$
8	y2.0	$\gamma = 2.0$
9	y2.7	$\gamma = 2.7$
10	SW	Switch(128ON/127OFF)



13-04. Manual Dimming

Item 04:
Manual Dimming
Dimming levels:
from 0 to 255

1) Press **ENTER** into Select channel No.
[All] = xxx
Select by UP or DOWN
Confirm by ENTER, the value in square bracket reveals current channel's name;

2) Press **▲** or **▼** to select the appointed channel or all channels as the same;

Select channel No.
[CH01] = xxx
Select by UP or DOWN
Confirm by ENTER or Select channel No.
[CH02] = xxx
Select by UP or DOWN
Confirm by ENTER or ... or Select channel No.
[All] = xxx
Select by UP or DOWN
Confirm by ENTER ;

3) Press into

Dimming level: CH01 = [xxx] Dim by UP or DOWN Confirm by ENTER

 or

Dimming level: CH02 = [xxx] Dim by UP or DOWN Confirm by ENTER

 or ... or

Dimming level: All = [xxx] Dim by UP or DOWN Confirm by ENTER
--

 ;

4) Press or to adjust output level (long pressing the keys for adjusting continuously);

5) Press to confirm it. One by one, if necessary.

Current level: CH01 = yyy ENTER -continue QUIT -return Item 04

 or

Current level: CH02 = yyy ENTER -continue QUIT -return Item 04

 or ... or

Current level: All = yyy ENTER -continue QUIT -return Item 04
--

 ;

You can view the real dimming effect during adjusting output level.

If no any action in this state, the current output status is holded all along.

In this state, if the set be powered off, and started up again, the menu will be into

PDxxxx Address=xxx In Manual Dimming ... ENTER -continue QUIT -exit
--

 , the quondam output status is holded all the same.

If returning to the sub-menu for other operation (such as "Record Scenes"), the output status is holded all the same.

If returning to the sub-menu but no new action, it will be into

PDxxxx Address=xxx In Manual Dimming ... ENTER -continue QUIT -exit
--

 after 30 seconds. The current output status is holded all along.

If want to quit current "Manual Dimming" mode, must return to the main menu by , then the dimmer will be controlled by DMX signal from the console.

13-05. Scenes Recording

Item 05: Record Scenes Recordable scene No.: from 1 to 12
--

1) Press into

Record current scene to Rec No.[1] Select by UP or DOWN Confirm by ENTER

 , the value in square bracket reveals the number be going to record;

2) Press or to select the appointed number (If want to change it);

3) Press into

Scene be recorded to Rec No. 1 ENTER -continue QUIT -return Item 05
--

 , the current scene is recorded in №.1 address;

4) Press again, into

Record current scene to Rec No.[2] Select by UP or DOWN Confirm by ENTER

 to select the appointed number such as №.2;

5) Practise another scene;

6) Press into

Scene be recorded to Rec No. 2 ENTER -continue QUIT -return Item 05
--

 , this scene is recorded in №.2 address;

If necessary, again and again, one by one, total 12 scenes.

7) For erasing recorded scene(s), press or until

Erase all scenes Yes or No ? Select by UP or DOWN Confirm by ENTER

 , press to confirm "Yes" ;

8) Finish this operation, return by , or return to the main menu automatically after 30 seconds.

Recording every channel's DMX dimming level value (from a console or by manual) into the scene serial number, it is available for "off-line performing scene" in the future.

13-06. Scenes Recalling

Item 06:
Recall Scenes
Recallable scene No.:
from 1 to 12

- 1) Press **ENTER** into

Recall scene
from Rec No.[1]
Select by UP or DOWN
Confirm by ENTER

, the value in square bracket reveals the number be going to recall;
- 2) Press **▲** or **▼** to select the appointed number (If want to change it);
- 3) Press **ENTER** into

Current scene
from Rec No. 1
ENTER -continue
QUIT -return Item 06

, Scene No.1 is recalled out;
- 4) Press **ENTER** again, into

Recall scene
from Rec No.[2]
Select by UP or DOWN
Confirm by ENTER

 to select the appointed number such as No.2;
- 5) Press **ENTER** into

Recall scene
from Rec No. 2
Select by UP or DOWN
Confirm by ENTER

, Scene No.2 is recalled out;

If necessary, again and again, one by one, at most 12 scenes.

(The scene number which has no been recorded any matter, it is a “Background” scene.)

You can view the real dimming effect when a scene recalled out.

If no any action in this state, the current output status is holded all along.

In this state, if the set be powered off, and started up again, the menu will be into

PDxxxx Address=xxx
In Scene Recalling ...
ENTER -continue
QUIT -exit

, the quondam output status is holded all the same.

If returning to the sub-menu for other operation (such as “View Dimming Levels”), the output status is holded all the same.

If returning to the sub-menu but no new action, it will be into

PDxxxx Address=xxx
In Scene Recalling ...
ENTER -continue
QUIT -exit

 after 30 seconds. The current output status is holded all along.

If want to quit current “Scene Recalling” mode, must return to the main menu by **QUIT**, then the dimmer will be controlled by DMX signal from the console.

13-07. View Dimming Levels

Item 07:
View Dimming Levels:
External DMX level
Manual dimming level

- 1) Press **ENTER** into

Current dim levels:
CH01=xxx CH02=xxx
CH03=xxx CH04=xxx
CH05=xxx CH06=xxx

 (PD 6xx), and
- 2) Press **▲** or **▼** into

Current dim levels:
CH07=xxx CH08=xxx
CH09=xxx CH10=xxx
CH11=xxx CH12=xxx

 (PD 12xx)
- 3) Return by **QUIT**, or return to the main menu automatically after 30 seconds.

13-08. View Working Status

- Item 08:
View Working Status:
Mains power supply
Device temperature
- 1) Press **ENTER** into

```
AC input voltages:
L1 = xxx Vrms
L2 = xxx Vrms
L3 = xxx Vrms
```

 to Inquire about the voltage of every phase of mains supply;
 - 2) Press **▲** or **▼** into

```
AC frequency=xx.xHz
Cycle time = yy.ymS
Temperature = zz °C
QUIT -return Item 08
```

 to Inquire about the frequency and cycle time of mains supply, and working temperature of the inner power parts;
 - 3) Return by **QUIT** , or return to the main menu automatically after 30 seconds.

13-09. Set Local PS Voltage

- Item 09:
Set Local PS Voltage
Mains ps voltage:
from xxxV to vvvV
- 1) Press **ENTER** into

```
Select local voltage
= [xxx.] Vrms
Select by UP or DOWN
Confirm by ENTER
```

 , the value in square bracket reveals the preset voltage class;
 - 2) Press **▲** or **▼** to amend the voltage class if need to do it;

IEEE STANDARD (phase voltage) : 240V, 230V, 220V
EIA STANDARD (phase voltage) : 127V, 120V, 115V, 110V, 100V

- 3) Press **ENTER** into

```
Set local voltage
Yes or No ?
Set by UP or DOWN
Confirm by ENTER
```

 ;
- 4) Press **▲** or **▼** to choose "Yes" or "No";
- 5) Press **ENTER** to confirm it;

```
Local voltage std.
= yyy Vrms
Power supply setting
is over.QUIT please!
```
- 6) Return by **QUIT** , or return to the main menu automatically after 30 seconds.

Have already set up this default value when the device leaving the manufactory. Usually, to be not essential to change this parameter, so as not to make the mistake working, excepting appearing alarm message!

13-10. Set Default to All

- Item 10:
Set Default to All
Warning!
Your data will lost.
- 1) Press **ENTER** into

```
Are you sure
set default to all?
ENTER -continue
QUIT -return Item 10
```

 ;
 - 2) Press **ENTER** into

```
All status be set to
manufactory default!
Data default setting
is over.QUIT please!
```

 ;
 - 3) Return by **QUIT** , or return to the main menu automatically after 30 seconds.

Under setting up unusually confused situation, may try to reset all data to the default in the manufactory.

14. Operating Status Treatment

- 1) While starting up, or while illuminating after "blackground" long time, or while the operating state resumes after the trouble be obviated, if the external state is normal, the system will enter the "soft-start" procedure first. The output level of every channel rises to DMX real level gradually (or it rises to current manual out level or current recalled scene output level without console connected).
- 2) According to every channel own preheating value, modifier value of selected curve, and DMX value received from the console or by manual dimming or by recalled scene, the output level is accumulative result .
- 3) While a certain channel load has happened the trouble of over current or short circuit, the system will shut off this channel output immediately, and the buzzer phonates. It reveals the trouble information of the corresponding fault channel number at the same time; Try triggerring once in every 20 seconds circularly, until the trouble is obviated and this channel returns to normal output. The operation of the normal channels is not influenced.
- 4) The speed of the cooling fans are increased or decreased with working temperature. When inner temperature exceeds over the standard range, the system will be into "sleep" state and gives an alarm message. Output is resumed until temperature is normal. (Can inquire about the temperature value at any time.)
- 5) PD series dimmers according to the standard voltage of local mains supply to work. when the voltage value of mains supply is higher than rated value up to 10% and more, PD dimmer will limit its outputs automatically, thus to lengthen the life of lamps.
- 6) If the voltage of local mains supply is not equal to the preset volatge value of PD dimmer in the extreme, the system gives notice to operator for matching voltage value. It will be into normal operating state after correcting.
- 7) If mians supply happens severe over voltage or under voltage during dimmer operating, the system shuts off the output and gives an alarm. It will be into normal operating state until the voltage of mians supply returns to normal.
- 8) If the certain phase voltage (such as L2 or L3) of mians supply is lost, the system gives an alarm. It will be into normal operating state until this phase voltage returns to normal. No trouble phases are not influenced.
- 9) If DMX signal from a console loses abruptly during dimmer operating, the system holds the last DMX data scene, and gives an alarm until DMX signal returns to normal. Or be changed to "Manual Dimming" mode or "Scenes Recalling" mode by the operator.
- 10) In case of the inner subassembly happens a trouble, the system gives an alarm and the solution.

15. Fault Information & Trouble Shooting

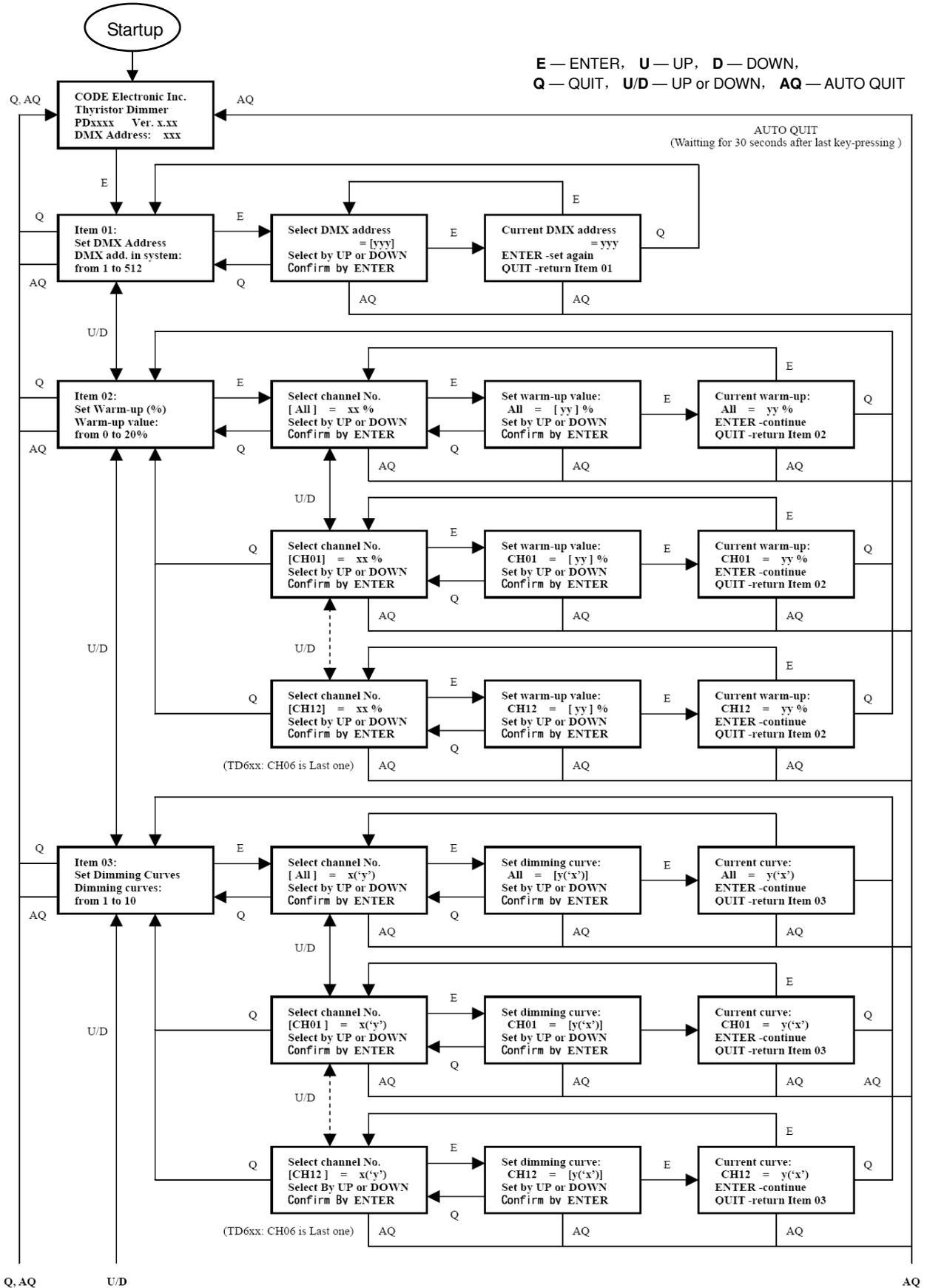
When a severe abnormal status happens, the buzzer phonates, LCD displays the fault message, and gives the solution. This case will go on if several troubles happened at the same time. The severer one exhibits ahead.

When a low-grade abnormal status happening, the buzzer is silent, LCD displays the fault message, and gives the solution.

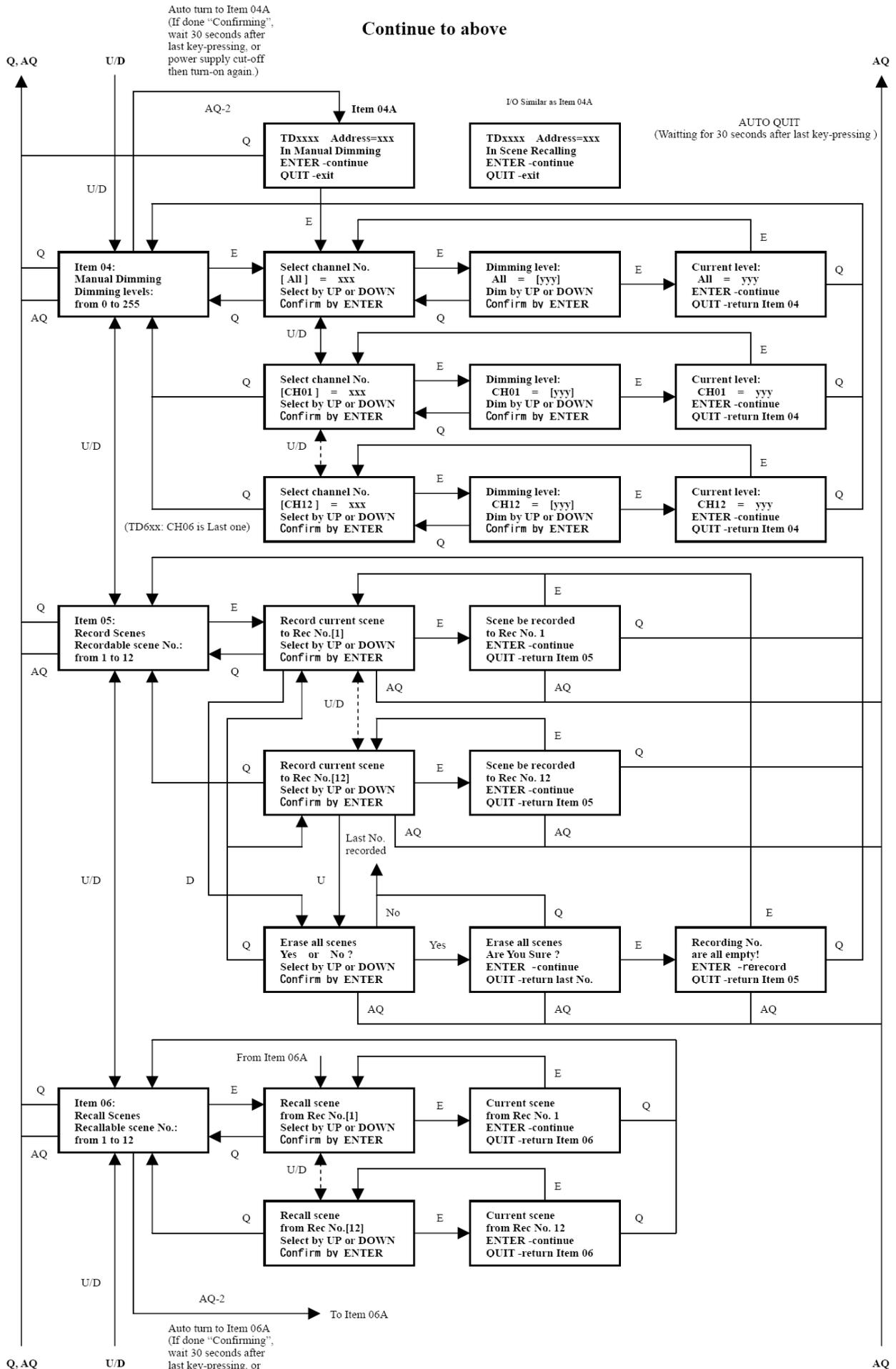
The detail vide: **【Annex B】 < Fault Alarm & System Response >**

Menu Operation Flow Chart

(V20120301A)

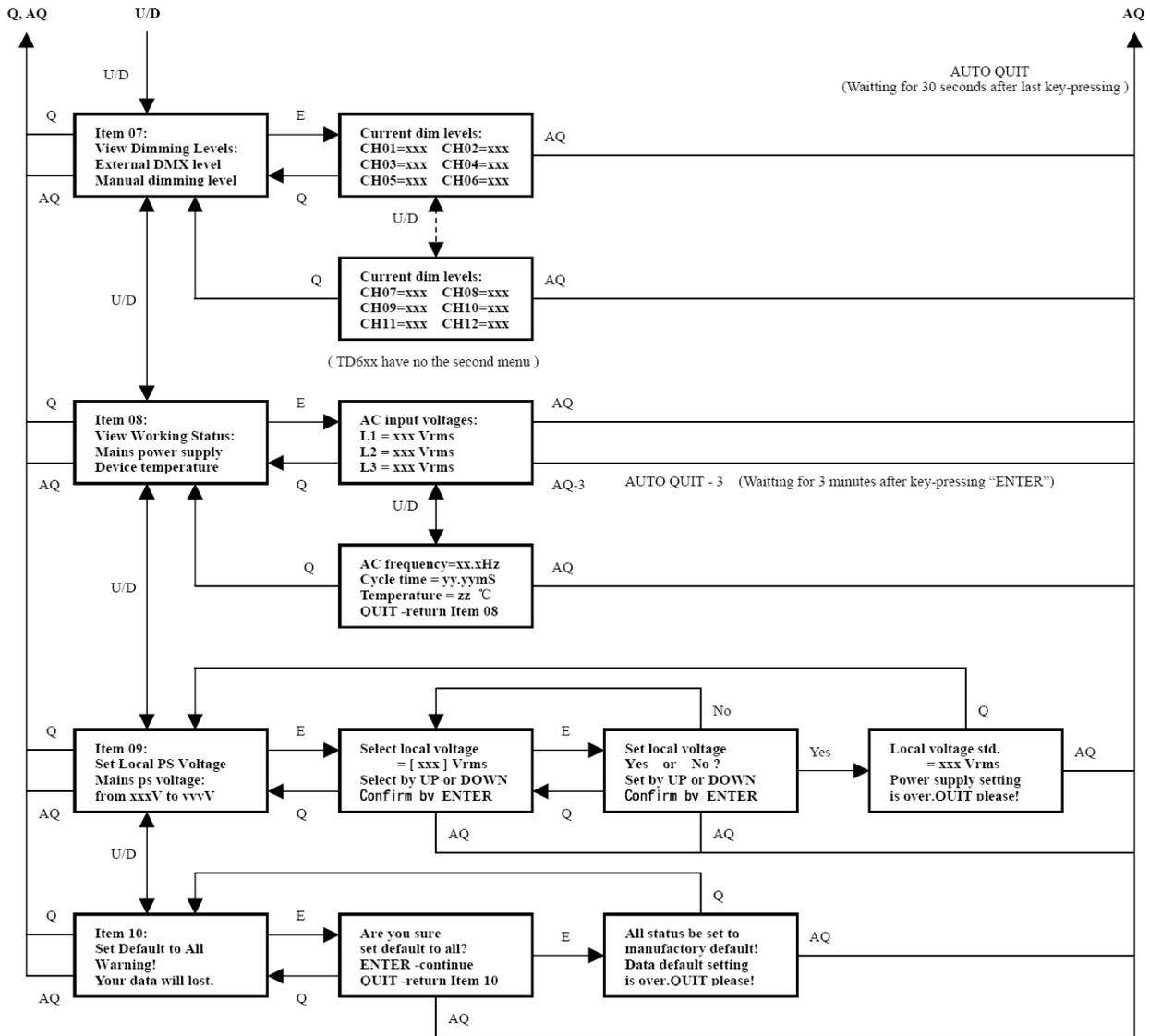


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To be continued

Continue to above



- The End -

Fault Alarm & System Response

(V20120301B)

Fault	Causation	Description	LCD	Buzzer	Response & Solution
01	AC voltage is severe over standard range (such as the phase wire was mistaken.)	Certain “phase voltage” $\geq 300V_{rms}$	Mains PS Over Volt! L1: xxx Vrms L2: xxx Vrms L3: xxx Vrms	Phonating (long)	All channels are shut off. (Must power off the set for connecting AC input power supply wires correctly.)
02	AC voltage is severe under standard range (such as three phases are severe imbalance.)	$50V_{rms} \leq U_n < 80V_{rms}$	Mains PS Under Volt! L1: xxx Vrms L2: xxx Vrms L3: xxx Vrms	Phonating (long)	All channels are shut off. (Must power off the set for checking AC input powersupply.)
03	L1(A) phase is severe under-voltage	$U_a < 50V_{rms}$	Phase-L1 Lost! L1: xxx Vrms L2: xxx Vrms L3: xxx Vrms	Phonating (long)	All channels are shut off. (Must power off the set for checking AC input power supply .)
04	The voltage of local mains supply is not matching to the preset volatge value of the dimmer in the extreme.	1. Preset value is IEEE: (220~240Vrms) Local phase voltage: $U_n < 150V_{rms}$	Item 09: Set Local PS Voltage Mains ps status: from 100V to 127V	Phonating (long)	All channels are shut off. (Until reset corrective value.) <u>Remark:</u> When the preset voltage value and local voltage value are in identical range such as IEEE or EIA: LCD gives out the prompt message. Buzzer is silent. All outputs are not shutted off. And quash alarm after 10 seconds.
		2. Preset value is EIA: (100~127Vrms) Local phase voltage: $U_n \geq 150V_{rms}$	Item 09: Set Local PS Voltage Mains ps status: from 220V to 240V		
05	Inner parts over heat.	Inner temperature hoiks to exceed the tolerable limit. ($T_c \geq 90^\circ C$)	Over Temperature Temperature = zzz°C Check operation environment please!	Phonating (long)	All channels are shut off. (Check the fans running, and/or Improve the environmental ventilation condition.)
06	Load's fault.	Load is over current ($I_o > 1.5x$ rated current) or Output is short circuit	CHxx Over Current! Check load condition or local operation environment please!	Phonating (mora)	The fault channel is shut off. But normal channels have output. (Check the load power, make it not higher than specified value; Check the safety status of parts such as lamps, cables, connectors, etc.)
07	L2(B) phase and/or L3(C) phase lost.	$U_b < 50V_{rms}$ and/or $U_c < 50V_{rms}$	Phase-L2 Lost! L1: xxx Vrms L2: xxx Vrms L3: xxx Vrms	Silent	The channels relational fault phase are shut off. But the channels relational normal phase have output. (Must power off the set for checking AC input power supply .)
			Phase-L3 Lost! L1: xxx Vrms L2: xxx Vrms L3: xxx Vrms		
			Phase-L2 & L3 Lost! L1: xxx Vrms L2: xxx Vrms L3: xxx Vrms		
08	Inner Drive Board fault.	The connection fault.	Drive board error! Check the connectors & the cable please! Or contact CODE Inc.	Phonating (mora)	All channels no output. (Contact manufactory)
09	Inner Detectors fault	The connection fault.	CODE Electronic Inc. Thyristor Dimmer PDxxxx Ver. xxx U DMX Address: xxx	Silent	It is into “ordinary working mode” automatically. (Normal running and operation are not influenced.)
10	No DMX Signal.	1. Signal polarity is mistaken. 2. DMX address code is over range of the console's capability. 3. The console is bad. 4. Cable or plug is bad.	CODE Electronic Inc. Thyristor Dimmer PDxxxx Ver. xxx No DMX Signal!	Silent	The last scene from the console can be holded automatically. Manual dimming or scene recalling are not influenced. (Check signal wire polarity, DMX address code and console's capability, signal cable, plugs, etc.)

Note: 1) While happening fault in running, the system response, buzz alarm and message report are timely.

2) This case will go on if several troubles happened at the same time. The severer one exhibits ahead.

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