CX-12

DMX 96 Control channel Dimming Controller

User Manual

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Introduction

Chapter 1.   CX-12 Feature & Function

1-1   Feature

- **Dual control signal output**
  (1.) DMX512 / 1990   (2.) 24 channel analog signal output 0 - 10V
- **96 control channel, and able to control up to CH97 – CH512 by patch**
- **4 set of PATCH editing function**
- **96 set of scenes pre-set**
  (24 set of scenes able to save on every single page function)
- **24 set of chase preset**
- **Up to 64 scene step on each chase setting**
- **2 set of individual control stick for scenes change (CROSS FADE)**
- **Audio control available**
- **output external memory card saving / loading (option)**

1-2   Specification

■	Power supply	AC 90-240V, 45-63Hz
■	Digital control signal input / output	DMX512 / 1990
■	Digital control channel	512channel by PATCH able to control CH 97 – CH 512
■	Digital control connector	XLR 5-pin
■	Audio input	Internal microphone MAX 120dB output max. value :AC 100mV
■	Gooseneck connector stand	XLR 3 -pin, DC +12V 250mA
■	Memory card	64k*2
■	Dimension	19" 8U standard rack 482(w) x 352(h)x125(d)mm
■	Weight	5 Kg

Warning

1. **Recharge the battery at least 24 hours on before start running. (power switch turn to ON locate on rear panel)**

2. **After first use, the saving data may lost if without battery recharge in 7 days!**

1-3   Dimension
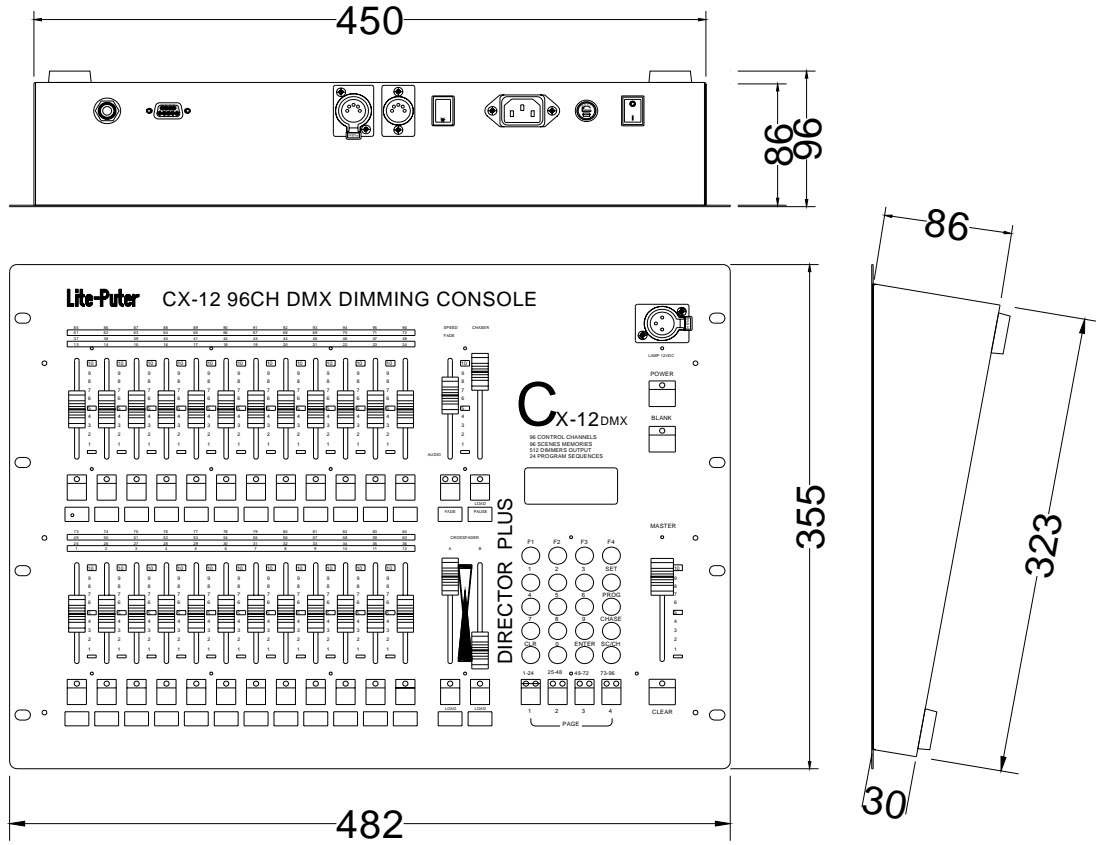
CHAPTER 2.   CX-12 SPECIFICATION

2-1   Introduction of control panel
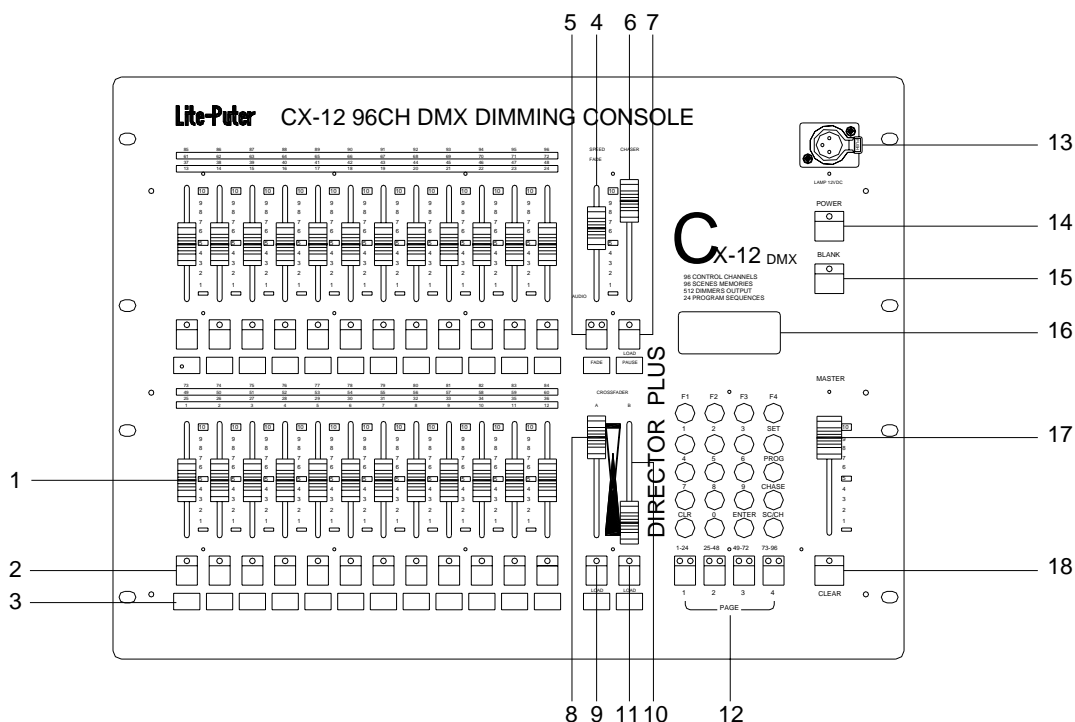
(1.) **VR1 ~ VR24** VR .... VR1 ~ VR24

(2.) **P1 ~ P24** hot key...................... P1 ~ P24

function 1   The LED on function key display the channel status (In channel mode)

function 2   In SCENE mode, for SCENE selection

function 3   FLASH

function 4   LOAD + P1 - P24 hot key for chase function

(3.) Blank ....indication / memo for user

(4.) SPEED / FADE VR ....Adjustment of chase speeding   / CROSS FADE speeding

(5.) FADE save key ....CROSS FADE mode use

(6.) CHASER VR ....chase brightness value adjustment

(7.) LOAD / PAUSE ....Load / Pause   auto chase mode use

(8.) A-CROSSFADER VR............Manual chase A execution mode

(9.) LOAD ....Load / Switch   Manual chase A mode use

(10.)B-CROSSFADER VR ....Manual chase B execution mode use

(11.)LOAD ....Load / Switch   Manual chase B mode use

(12.)PAGE ....PAGE 1~PAGE 4

(13.)Gooseneck...........................C+12V 250 Ma

(14.)POWER ....power switch

(15.)BLANK ....Pause

(16.)LCD......................................LCD display

(17.)MASTER VR ....Master VR

(18.)CLEAR ....output clear

(19.)F1......................................function key

(20.)F2......................................function key

(21.)F3......................................function key

(22.)F4......................................function key

(23.)SET....................................function key

(24.)PROGRAM ....function key

(25.)CHASE ....Chase execution

(26.)SC/CH.................................scene/channel switch

(27.)ENTER................................enter key

(28.)0 ~ 9...................................0 ~ 9

(29.)CLR....................................Clear
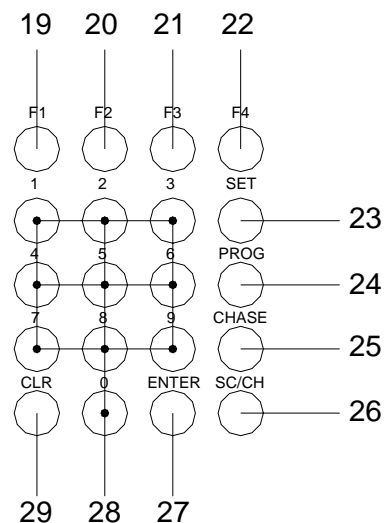
2-2   REAR PANEL
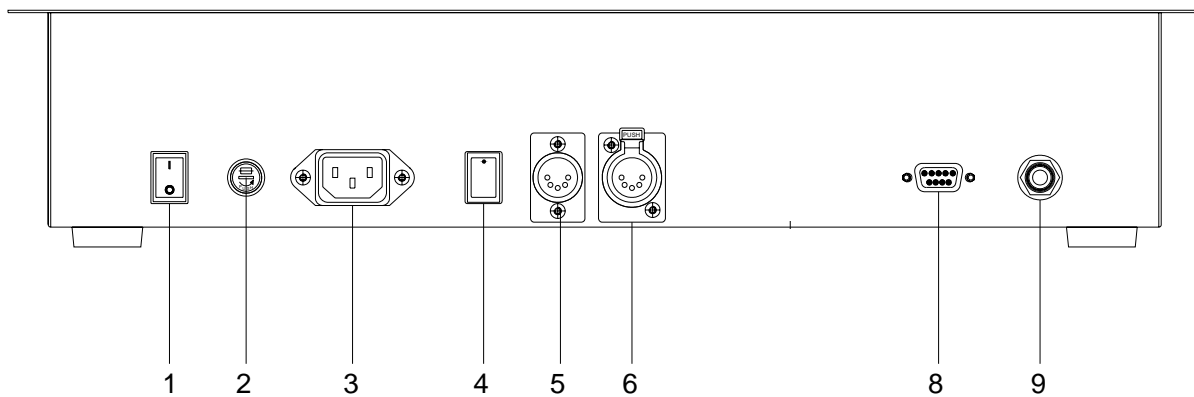
(1)   Power switch
(2)   fuse
(3)   AC 100-240V   50-60 Hz
(4)   goosenecks power switch
(5)   DMX 512 input
(6)   DMX 512 output
(8)   memory card
(9)   audio input

CHAPTER 3   Switch

Switch on

(1.)   Plug into power source, and turn the power switch on rear panel

(2.)   Turn the power switch on front panel, and check the LCD display status

(3.)   Be sure that the LED on BLANK is off

Switch off

(1.)   Turn off the power switch on front panel

Battery recharging mode

(2.)   Turn off the power switch on rear panel

Battery un-recharge, 7 days duration of save data maintains only

Remark   The using status will keeping on after power off

Chapter 4.   CHANNEL

4-1   Brightness value

STEP-1 Adjust the **MASTER VR** to the top (**MASTER VR** adjust all control channel brightness value)

STEP-2 press **SC/CH**   key, to select the control channel mode (LED show green light on page key)

STEP-3 press **PAGE 1** ,adjust **VR 1 ~ VR 24** ,to set CH. 01 ~ 24brightness value.

```
PAGE START CH01

CHASE FADE ON
F1/2   FADE ON/OFF
```

STEP-4 press   **PAGE 2**   ,adjust   **VR 1 ~ VR 24**   to 0 value, and adjust   **VR 1 ~ VR 24**   to set CH. 25 ~ 48 of brightness value.

```
PAGE START CH25

CHASE FADE ON
F1/2   FADE ON/OFF
```

STEP-5 press **PAGE 3** ,adjust **VR 1 ~ VR 24** to 0 value, and adjust   **VR 1 ~ VR 24**   to set CH. 49 ~ 72 of brightness value.

```
PAGE START CH49

CHASE FADE ON
F1/2   FADE ON/OFF
```

STEP-6 press   **PAGE 4** ,adjust   **VR 1 ~ VR 24**   to 0 value, and adjust   **VR 1 ~ VR 24**   to set CH. 73 ~ 96 of brightness value.

```
PAGE START CH73

CHASE FADE ON
F1/2   FADE ON/OFF
```

> **p.s. when on page function, the VR should be adjust to 0 value, and move the VR key to get the new dimming value**

4-2　Brightness modification

STEP-1 press　**PAGE 1**　(ch1-24)

```
PAGE START CH01

CHASE FADE ON
F1/2   FADE ON/OFF
```

STEP-2 adjust　**VR 1**　key to CH01=00 value, and adjust VR key to top CH01=FL, then adjust the　**VR 1**　key to CH01=50 to change the setting.

4-3　setting delete

adjust　**VR 1 ~ VR 24**　and　**MASTER VR**　key to the bottoms "0", and press the CLEAR key on below of "MASTER VR" key to delete.

Chapter 5   SCENE

5-1   SCENE setting

STEP-1 please refer to the chapter 4, adjust the dimming value on the control channel.

STEP-2 press   **PROG**

```
F1: Scene
F2: Sequence
```

STEP-3 press   **F1**   ,and select SCENE mode

```
F1: Load    F3: Clear
F2: Save
```

STEP-4 press   **F2**   ,to save the SCENE

```
SELECT   [01….. 96]
SAVE SCENE      01
```

STEP-5 press   **ENTER**   to confirm the selection

```
ARE YOU SURE ?F1
SAVE SCENE      01
```

STEP-6 for further SC2 --- SC96 setting, please refer to the setting procedure of above

Each   PAGE   24 set of SCENE setting available

4 PAGE able to store 96 set of scene

5-2   SCENE 1 … SCENE loading

5-2-1   use   PROG   key for SCENE loading

STEP-1 Set all dimming value to 0%   (refer to 4-3)

STEP-2 Adjust   **MASTER VR**   key for dimming value

STEP-3 Press   **PROG**   , and press   **F1**   to select the SCENE mode

```
F1: Scene
F2: Sequence
```

STEP-4 Press   **F1**   key for SCENE loading

```
F1: Load      F3: Clear
F2: Save
```

STEP-5 Press   **0…9**   key for number of SCENE loading

```
SELECT   [01….. 96]
LOAD SCENE      01
```

STEP-6 Press   **ENTER**   to confirmed the scene loading

5-2-2   use   SC/CH   key for SCENE loading (FLASH status)

> **PAGE**   LED   **SCENE mode**
>
> **PAGE**   LED   **CHANNEL mode**

STEP-1 Set all dimming value to 0%. (refer to 4-3)

STEP-2 Adjust the   **MASTER VR**   key

STEP-3 Press   **PAGE 1**

STEP-4 Press   **SC/CH**   to select the **SCENE** mode.

STEP-5 Press   **P 1**   for SCENE loading. (Flash status)

5-2-3   Adjust the   VR 1 ~ VR 24   key for SCENE loading

STEP-1 Adjust all control channel dimming value to 0% (refer to 4-3)

STEP-2 Adjust the   **MASTER VR**

STEP-3 Press   **PAGE 1**

STEP-4 press   **SC/CH**   to select **SCENE** mode (LED light on RED on PAGE key)

STEP-5 Adjust   **VR 1**   key to for SCENE loading

> 1   **5-2-1 or 5-2-2   SCENE speed loading**
> 2   **5-2-3   Adjust the VR key for dimming function**

Chapter 6.   SEQUENCE /   CHASE

"SEQUENCE"

- ■ **meaning** **2 set of scene or more of scenes for chase setting**

- ■ **Function** **Provide the " CHASE " & " A/B CROSS FADER " control procedures**

- ■ **Data memory** **up to 24 SEQUENCE of memory data and up to 64 step per SEQUENCE setting**

6-1 SEQUENCE Editing

STEP-1 Press **PROG** key

```
F1: Scene
F2: Sequence
```

STEP-2 Press **F2** key to select Sequence mode

```
F1: Load    F3: Edit
F2: Save    F4: Clear
```

STEP-3 Press **F3** key for Sequence editing

```
F1 / 2/ 3/ 4=1/ + / - /E
SEQU.STEP01=S - -
```

press **F1** back to STEP-01
press **F2** forward
press **F3** reward
press **F4** to save

STEP-4 Use **0…9** key to select the SCENE, and press **ENTER** key to confirmed the selection

```
F1 / 2/ 3/ 4=1/ + / - /E
SEQU.STEP01=S - -
```

STEP-5 according to the STEP-3 procedures, to continues the SCENE setting, and press **F4** key to complete the editing, and press **ENTER** to save

```
SELECT [01...24]
SAVE SEQUENCE01
```

6-2   SEQUENCE Modification

STEP-1 Press **PROG**   key

> F1: Scene
> F2: Sequence

STEP-2 and press **F2**   key to select Sequence mode

> F1: Load   F3: Edit
> F2: Save   F4: Clear

STEP-3 press **F1**   key, and press **0…9**   key to select Sequence

> SELECT   [01..24]
> LOADSEQUENCE01

STEP-4 Press **ENTER**   key to confirmed.

> F1: Load   F3: Edit
> F2: Save   F4: Clear

STEP-5 Press **F3**   key for Sequence setting

6-3   CHASE Loading

6-3-1   CHASE loading

EX   to load the 1st set of chase

   CHASE number = SEQUENCE number

STEP-1 press **CHASE**   key

> SELECT   01…24
> CHASE: OFF   01

STEP-2 and press **0...9** to select the CHASE, and press **ENTER** to confirm the selection

```
SELECT        01...24
CHASE: OFF       01
```

STEP-2 adjust the **CHASER FADER VR** to the top.(chase dimming value)

STEP-3 adjust **SPEED FADER VR** for chase speeding, for audio control, the VR key should move to " 0% " value.

6-3-2 Use P1-P24 for chase loading

STEP-1 press **LOAD/PAUSE key on below of CHASER FADER VR + P 1** keys together, for 1st set of chase loading, and press **P 2** key for the following chase loading

> Press **LOAD/PAUSE key on below of CHASER FADER VR** again to pause the chase function, and press the same keys again to continue

Refer to 6-1& ~ 6-2 of setting procedures, for further chase setting, up to 24 set of chase setting available. And refer to 6-1 for chase loading

6-4 CHASE Fade On/Off Setting

STEP-1 adjust the **CHASER FADER VR** or **SPEED FADER VR**

```
CHS=FL      SPEED=FL
OFF         Step=01
CHASE FADE ON
F1/2:FADE ON/OFF
```

STEP-2 press **F1** key, to enter **CHASE FADE ON MODE.**

press **F2** key, to enter **CHASE FADE OFF MODE.**

```
CHS=FL      SPEED=FL
OFF         Step=01
CHASE FADE ON
F1/2:FADE ON/OFF
```

```
CHS=FL      SPEED=FL
OFF         Step=01
CHASE FADE OFF
F1/2:FADE ON/OFF
```

6-5   to stop the CHASE execution

function 1.

Press twice   **CHASE**   key to stop

function 2.

Adjust the   **CHASE FADER VR**   key to the " 0% " value to stop

Chapter 7   A/B CROSS FADERS Scene switching

"A/B CROSS FADER"

- **2 set of individual scene control VR**

- **In SEQUENCE mode, use A/B CROSSFADER to execute the manual chase function.**

7-1 To save the SEQUENCE to A / B CROSS FADER

EX   To load the Sequence to A CROSS FADER

STEP-1 Press   **LOAD key on below of A CROSS FADER**   +   **P 1**   keys together to save the current sequence into A CROSS FADER.

7-2   To load A / B CROSS FADER data

Function 1   press the Load key on below of A/B CROSS FADER

The Fader time of A/B CROSS FADER control by SPEED VR key, according to 7-1, to load the saving data from the SEQUENCE by A CROSS FADER.

STEP-1 Adjust   **SPEED / FADE VR**   key, and press   **FADE**   to confirmed the speed setting, adjust the speed VR key, and press FADE key for modification

STEP-2 Press   **A CROSS FADER VR**   to the top, and press   **LOAD**   key for loading

Function 2: use A/B CROSS FADER VR

According to the setting procedures of above, use the   **A CROSS FADER VR**   key for further setting

7-3   To pause the A / B CROSS FADER

Adjust the   **A CROSS FADER VR**   key to the "0%" value, and press   **LOAD**   key to pause / stop

Chapter 8   Other function setting

8-1   LCD display / default setting

8-1-1   Power switch of LCD background lighting

STEP-1 Press   **SET**

```
F1 : Setup F3 : Patch
F2 : Xio     F4 : Lock
```

STEP-2 and press   **F1**

```
F1 : Lcd
F2 : Reset system
```

STEP-3 and press   **F1**

```
F1 : Backlight
F2 : Concen
```

STEP-4 and press   **F1**   for brightness of LCD background lighting, press   **F1**   again to save.

```
F1 : Backlight
F2 : Concen
```

8-1-2   LCD contrast adjustment

STEP-4 refer to STEP-4,press   **F2**   key to adjust the contrast of LCD, and press   **F2**   again to confirmed.

```
F1 : Backlight
F2 : Concen
```

8-1-3   DATA delete

STEP-1 press   **SET**

```
F1 : Setup F3 : Patch
F2 : Xio    F4 : Lock
```

STEP-2 and press   **F1**

```
F1 : Lcd
F2 : Reset system
```

STEP-3 and press   **F2**

```
Reset All Data!
Are You Sure?    F1
```

STEP-4 and press   **F1**   to delete all data, the BLANK will be activate, press
   BLANK   key to continue the further setting.

```
* DESK BLACK OUT *
CX-12
V2.08    ( C ) 1997- 98
     BY LITE PUTER
```

The display will be blinking

8-2   External memory card save / load

STEP-1 Press   **SET**

```
F1 : Setup F3 : Patch
F2 : Xio    F4 : Lock
```

STEP-2 and press   **F2**

```
F1 : Read
F2 : Save
```

press   **F1**   for external memory loading

press   **F2**   for external memory saving

8-3   Channel patch setting / warm up setting

8-3-1   Channel patch setting (up to 4 set of setting)

EX   To patch DIMMER097channel to CH01 of CX-12

STEP-1 Press   **SET**

> F1 : Setup F3 : Patch
> F2 : Xio   F4 : Lock

STEP-2 and press   **F3**

> F3:DMXin
> F2:DMXo F4:Wrmup

STEP-3 and press   **F2**

> F1 : Load   F3 : Edit
> F2 : Save   F4 : Clear

STEP-4 and press   **F3**

> F1/ 2 / 3 / 4=1/ + / - /d
> DIMMER001<=CH01

press	**F1**	to DIMMER 001
press	**F2**	DIM to + 1
press	**F3**	DIM to -1
press	**F4**	DIM address selection

STEP-5 Press   **F4**   for DIM staring address

> 1:97   2:193   3:289
> DIMMER001<=

press	**F1**	DIMMER097
press	**F2**	DIMMER193
press	**F3**	DIMMER289

STEP-6 Press   **F1**   for DIMMER097<=CH--

> F1/ 2 / 3 / 4=1/ + / - /d
> DIMMER097<=CH--

STEP-7 key **0** , **1** for DIMMER097<=CH01, and press **ENTER** key to confirmed the setting, the *DIMMER097 had PATCH to CX-12   CH01*

```
F1/2/3/4=1/+/-/d
DIMMER097<=CH01
```

STEP-8 press **SET** to escape

```
F1 : Load   F3 : Edit
F2 : Save   F4 : Clear
```

STEP-9 press **F2** the save (4 set of setting available F1~F4)

STEP-10 press **F1** to load the patch data from F1~F4

STEP-11 press **F4** to delete the date, and back to the default setting

8-3-2   Warm up setting 0~9%

STEP-1 press **SET**

```
F1 : Setup F3 : Patch
F2 : Xio    F4 : Lock
```

STEP-2 and press **F3**

```
        F3:DMXin
F2:DMXo F4:Wrmup
```

STEP-3 and press **F4**

```
F1 : ALLCh
F2 : LoadSc F4 :Clr
```

1. **F1** **:** to select all channel warm up setting
2. **F2** **:** SCENES loading
3. **F4** **:** to delete the last step scene setting

8-4   Lock / unlock function

8-4-1   password setting

STEP-1 press   **SET**

```
F1 : Setup  F3 : Patch
F2 : Xio     F4 : Lock
```

STEP-2 and press   **F4**

```
F1 : Pgm.
F2 : Key
```

> **F1**   SET, PROG key lock
> **F2**   all function key lock

STEP-3 press   **F1**   to lock   **PROG**   key

```
LOCK PROGRAM:
PASSWORD :   0000
```

> Enter 4 digit number, or enter "6248" of default password setting

STEP-4 press   **ENTER**   key to confirmed the setting

8-4-2   unlock

press   **SET**   ,and press 4 digit number of password   **XXXX**   and press   **ENTER** to unlock