

CX-18

18 CH Moving Light Console

【User Manual】



Lite-Puter Enterprise Co., Ltd.

Website : www.liteputer.com.tw

E-mail : sales@liteputer.com.tw

Index

CHAPTER 1	4
1-1 FEATURE	4
1-2 SPECIFICATION.....	5
1-3 DIMENSION	5
1-4 FRONT PANEL INTRODUCTION.....	6
1-5 REAR PANEL INTRODUCTION	6
1-6 INSTALLATION.....	7
CHAPTER 2 FUNCTION	8
2-1 BANK INTRODUCTION	8
2-2 SHOW INTRODUCTION.....	8
2-3 SCENE INTRODUCTION.....	8
2-4 FADER INTRODUCTION	8
2-5 FIXTURE NO. SELECTION BUTTON.....	8
2-6 FADE TIME PITCH FADER.....	8
2-7 SHOW RECALL BUTTON	9
2-8 FIXTURE FUNCTION BUTTON.....	9
2-9 RANGE FADER	9
2-10 SMOKE RECALL BUTTON.....	9
2-11 STROBE RECALL BUTTON	9
2-12 EDIT BUTTON.....	9
2-13 BLACKOUT BUTTON	10
2-14 FUNC BUTTON.....	10
2-15 MACRO INTRODUCTION.....	10
2-16 PREV SHOW INTRODUCTION	10
2-17 FINE FUNCTION BUTTON.....	10
2-18 JOYSTICK INTRODUCTION	10
2-19 LCD SCREEN INTRODUCTION	10
2-20 GOOSENECK LAMP STAND	10
2-21 GOOSENECK LAMP SWITCH	11
2-22 ADD BUTTON	11
2-23 INS BUTTON.....	11
2-24 DEL BUTTON.....	11
2-25 STORE BUTTON	11
2-26 SPOT SC BUTTON	11
2-27 ◀ AND ▶ BUTTON	11
2-28 ENTER BUTTON.....	11

2-29	ESC BUTTON	11
2-30	MASTER FADER.....	12
2-31	LED INDICATOR	12
2-32	USB PORT.....	12
2-33	SD CARD.....	12
2-34	MIDI IN.....	12
2-35	AUDIO IN.....	12
2-36	POWER IN.....	12
2-37	DMX OUT	12
2-38	POWER ON/OFF.....	12
CHAPTER 3 OPERATION		13
3-1	HOME PAGE INTRODUCTION	13
3-2	HARDWARE INSPECTION	14
3-3	DMX ADDRESS ALLOCATION CHECK.....	17
3-4	FIXTURE SETTING.....	18
3-5	SHOW SETTING/RECALL	22
3-5-1	INSERT STEP	30
3-5-2	EDIT STEP	31
3-5-3	DELETE STEP	31
3-5-4	PREVIEW SHOW.....	31
3-5-5	RECALL SHOW	32
3-6	STROBE SETTING/RECALL.....	35
3-6-1	STROBE RECALL	37
3-7	SMOKE SETTING/RECALL.....	37
3-7-1	SMOKE RECALL	40
3-8	SPOT RECALL/SETTING.....	40
3-8-1	SPOT RECALL	42
3-9	SEQ SETTING.....	42
3-9-1	SEQ RECALL	45
3-10	MAIN FIXTURE CONTROL	45
3-11	SYSTEM TIME SETTING	46
3-12	SYSTEM INITIALIZATION.....	50
CHAPTER 4 OTHER FUNCTION		53
4-1	OUTPUT CHANNEL DELETE	53
4-2	CHANNEL DIMMING VALUE CHECK.....	53
4-3	SD CARD CHECK.....	55
4-4	FILE COPY	56
4-5	FILE DELETE	66

CHAPTER 5 TUTORIAL	72
5-1 FIXTURE LIST	72
5-2 DMX ADDRESS SETTING	73
5-3 FIXTURE SET UP	75
5-4 STROBE SET UP	77
5-5 SMOKE SET UP	78
5-6 SPOT SET UP	79
5-7 PROGRAMMING A BANK A SHOW	80
5-8 PROGRAMMING A BANK A SCENE	81
5-9 COPY A BANK	82
5-10 COPY A SHOW TO EDITOR	82
5-10-1 PROGRAMMING A SHOW WITH MACRO.....	84
5-10-2 MODIFY SHOW FADES TIME.....	85
5-10-3 ADD A SHOW STEP.....	86
5-10-4 COPY A NEW SHOW DELET A STEP	87
5-11 PLAYBACK A SHOW AND SCENE	88
5-11-1 PAUSE TO A SHOW AND SCENE	89
5-11-2 CHANGING THE RATE OF A SHOW.....	89
5-12 SD CARD.....	90
GUARANTEE	92

Chapter 1

1-1 Feature

- Standard DMX-512 signal.
- Hardware inspection function.
- 18 faders and one joystick control up to 18 fixtures each with 18 channels.
- 18 BANK hotkey can recall any BANK; each BANK has 18 groups of SHOW.
- 18 SHOW hotkey can recall any SHOW; each SHOW has 32 STEPS.
- 18 LIGHT buttons correspond to 18 fixtures.
- User can set X, Y channel and DIMMER channel of the fixture to the joystick and faders on the console.
- SHOW editing has step ADD, INSER and DEL function.
- CX-18 can control 18 moving lights, 18 smoke machines and 144 dimmer channels.
- Joystick's recover function is used to control PAN/TILT moving speed: at the central place, the speed is 0; the bigger angel it poses the faster moving speed will be.
- When SHOW is editing, each step can choose four build-in modes, straight line mode(Y), lateral line mode(X), oblique line mode(X,Y), and clockwise & anticlockwise circle mode(X,Y, O). Each step can set SIZE and SPEED.
- SD memory card can download the file to other console or copy file.
- One fixture can be isolated from the SHOW mode to work as joystick -controlled follow spot.
- STEP can change with the music or directly controlled by MIDI.
- SD memory card can download the program to the PLAYER. It can directly recall the preset SHOW or recall it periodically.

1-2 Specification

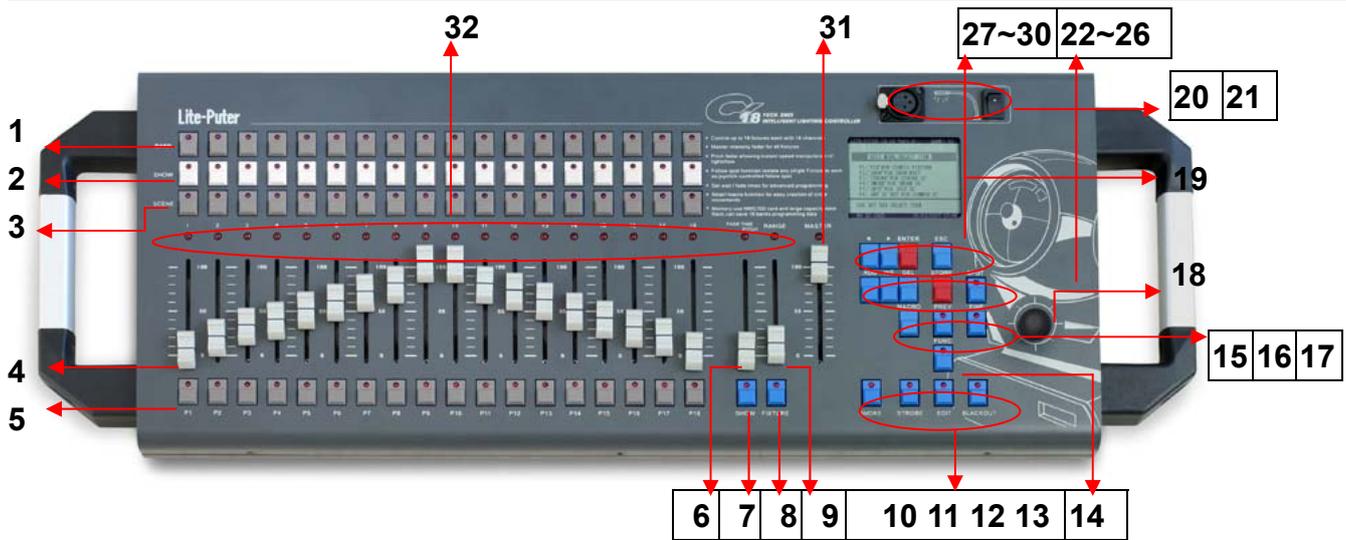
- Power input : AC 100-240V, 50-60Hz/0.5A
- Protocol : DMX-512
- DMX signal connector : RJ11(6P4C)
XLR PHONE JECK 5-PIN
XLR 3-PIN
- Audio signal input : Build- in MIKE MAX. 120dB; External input MAX. : AC 100mV
- Gooseneck lamp connector : XLR 3-PIN,DC +12V 250mA
- Dimension :790(W) * 265(H) *63(D)mm
- Weight: 6Kg

1-3 Dimension

790 (W) *265 (H) *63 (D) mm

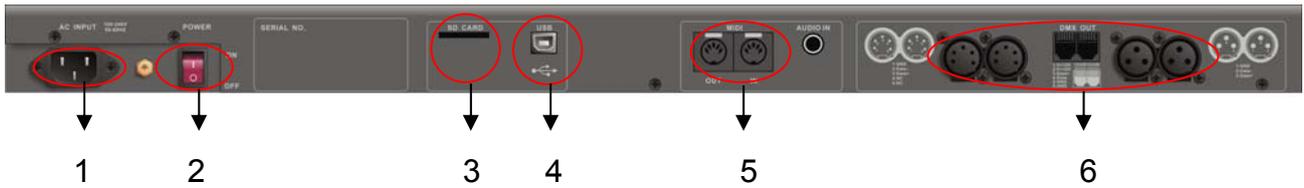


1-4 Front Panel Introduction



1	18 BANK NO. buttons (BANK1~BANK18)	17	FINE—moving light speed control button
2	18 SHOW NO. buttons	18	Joystick
3	18 SC NO. buttons	19	LCD screen
4	VR1—VR18	20	Gooseneck lamp base
5	P1—P18 FIXTURE NO. buttons	21	Gooseneck lamp ON/OFF
6	FADE TIME PITCH FADER	22	ADD—SHOW step add
7	SHOW recall button	23	INS—SHOW step insert
8	FIXTURE function button	24	DEL—SHOW delete
9	RANGE FADER	25	STORE—SHOW save
10	SMOKE recall button	26	SPOT--SPOT SC setting, save
11	STROBE recall button	27	◀ ▶ select button
12	EDIT main function button	28	
13	BLACKOUT	29	ENTER
14	FUNC button	30	ECS
15	MACRO—moving light mode	31	MASTER—master FADER
16	PREV—SHOW preview	32	LED indicator

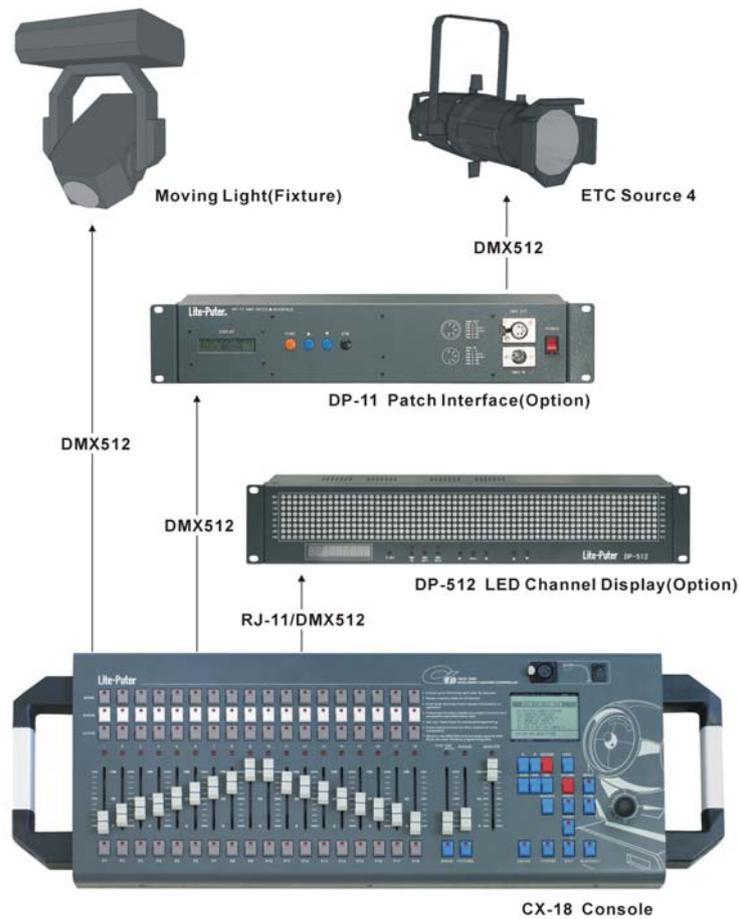
1-5 Rear Panel Introduction



1	AC Input	4	USB Port
2	Power on/off	5	MIDI Input
3	SD Card Slot	6	DMX Output

1-6 Installation

You can buy our other products to facilitate your use.



Chapter 2 Function

2-1 BANK Introduction

- ✧ Each BANK includes SHOW, SCENE, SMOKE, STROBE and SPOT, you can save the setting to the 5 functions above separately and recall them.
- ✧ The device has 18 BANK, each includes 18 SHOW, 18 SCENE, 1 SMOKE, 1 STROBE and 1 SPOT.

2-2 SHOW Introduction

- ✧ The device has 18 SHOW; each can store 32 STEP of each 18 moving lights. You can run the step in certain order or in x, y axle and the step has Pitch time and Wait time setting, which can be called Chase. The Step in SHOW can't store the channels (after channel 361) of traditional fixture (1-360 channel are the channels of moving light). You can run several SHOWS at the same time. Use Prev. to preview and change the run time.

✧

2-3 SCENE Introduction

- ✧ The device has 18 SCENE for traditional fixture(after channel 361).Each SCENE can be the one with only one step or several steps, it can run in x,y axle and has Pitch time and Wait time setting, which can be called Chase. Use Prev. to preview and change the run time.

2-4 FADER Introduction

- ✧ It's used for recall and set the dimming value of channel. In the FIXTURE mode, it can set position, movement, speed and brightness of moving light; in the SCENE mode, it can recall the scene of traditional fixture.

2-5 FIXTURE NO. Selection Button

- ✧ When set FIXTURE and recall moving light, you can use it to recall the corresponding moving light.

2-6 FADE TIME PITCH Fader

- ✧ Set the shift speed of each step: the basic value is 2 second (range from 0.1 to 25 second), it can be changed according to speed of Chase. Please note the minimal speed can't lower than that of moving light, otherwise it will influence the operation.
- ✧ When SHOW is running, it must on the 0 position. It can move upward to accelerate or downward to slow down.

2-7 SHOW Recall Button

- ✧ It's used for run and set moving light's mode. Entering the SHOW play back mode is equal to PLAYBACK mode, you can run all the setting here.
 1. On the main menu, press EDIT to enter SHOE editing.
 2. After setting, press SHOW to recall it or recall SCENE at the same time.

2-8 FIXTURE Function Button

- ✧ It's a function to call moving light's mode. It can choose moving light, set channel's value, movement, speed and brightness.
 1. On the main menu, press it to enter moving light setting.
 2. Fixture : On any condition, except under SPOT, FUNC and EDIT menu, you can use it to control the moving light independently , at the same time , use Fader and joystick to fine adjust .

Please note: Only under SPOT, FUNC, and EDIT menu, you can't use FIXTURE button but use P1/Fader 1 to recall the channel of traditional fixture (after channel 361).

2-9 RANGE FADER

- ✧ When edit SHOW mode, it is set wait time (range from 0.1 to 25 second) of each step, the default value is 2 second and it can be changed according to Chase speed.
- ✧ When edit SHOW mode, the Macro mode is on, the RANGE is used for choose circle radius.

2-10 SMOKE Recall Button

- ✧ It can set the channel 325 to 342 of smoke machine. You can set different value to each channel, for example, the channel with high value for warm machine, one with low value for smoke volume.

2-11 STROBE Recall Button

- ✧ It can set the channel 343 to 360 of strobe light. It will set different value to each channel, for example, the channel with high value for brightness, one with low value for turn on.

2-12 EDIT Button

- ✧ It is to enter the main menu, including FIXTURE, SMOKE, STROBE, SPOT, SHOW, and COMMEN SC function.

2-13 BLACKOUT Button

- ✧ It supplies a function which is take out all intensity When the SHOW, STOB, SKOME, SPOT and SCENE are in action.

2-14 FUNC Button

- ✧ Press FUNC to enter function menu, it includes system time, operation status, data copy, and delete setting.

2-15 MACRO Introduction

- ✧ When edit SHOW, it can set the path of moving light by console default setting.
There are 5 modes: OFF/RIGHT & LEFT /UP & DOWN/CIRC
CIRCOFF-----turn off moving light
RIGHT&LEFT -----move in X axle
PAN&TILT-----move in Y axle
CIRC-/CIRC-----move in circle (X and Y axle) (clockwise and anti-clock direction)
- ✧ When running SHOW, press MACRO to pause output and press it once again to restart.

2-16 PREV SHOW Introduction

- ✧ When edit SHOW, press PREV to PREV. (preview) and test the show and also adjust the pitch and range (fade and wait time).Store it you can save an ideal chase you want.

2-17 FINE Function Button

- ✧ When set moving light's position, use it to enlarge the resolution to easy adjust the speed for setting the PAN&TILT.
- ✧ When program a SHOW, after choose the FIXTURE, press FINE for 3 second, it will put the PAN&TILT value to 50%.

2-18 JOYSTICK Introduction

- ✧ Can replace the channel used for RIGHT&LEFT and UP&DOWN control in moving light.
The bigger the move angle, the faster the speed is. You can freely control the moving light together with fine adjust function.

2-19 LCD SCREEN Introduction

- ✧ It displays the input and output status.

2-20 GOOSENECK LAMP STAND

- ✧ Stand for gooseneck lamp installation.

2-21 GOOSENECK LAMP SWITCH

- ✧ Switch for Gooseneck lamp

2-22 ADD Button

- ✧ Add the STEP in SHOW editing.

2-23 INS Button

- ✧ Insert a new STEP in show or scene editing.

2-24 DEL Button

- ✧ Delete any STEP in show or scene editing.

2-25 STORE Button

- ✧ It's used for save the setting of a step which was updated when it was editing in a SHOW. Or in [Prev.] function it can save the timing when the steps were change.

2-26 SPOT SC Button

- ✧ It's used for save the pre-set scene of moving light in SPOT. When run the SHOW, if you recall the SPOT, moving light will come out of the SHOW and run the pre-set scene independently. For example, set a scene for stage; if the host comes out suddenly and the moving light is running the SHOW, press spot to call out the pre-set scene for stage immediately.

2-27 ◀ and ▶ Button

- ✧ They are used for move the cursor in function menu.
 1. Choose the place to insert STEP in the SHOW.
 2. Choose the function on the list of FUN and FIXTURE.
- ✧ During the SHOW and press [MACRO/PAUSE] to stop the link of sequence , press them to go next step or previous step.

2-28 ENTER Button

- ✧ Confirm operation.

2-29 ESC Button

- ✧ On FUNC and EDIT function menu or editing any setting in the menu, press it to go back to main menu and then press it once again to release the device, especially is clear off everything on stage.

2-30 MASTER FADER

- ✧ As the master dimming fader, you can use it to change the dimming value.
- ✧ When in the fixture set up function, the master fader is set the value of the Maximum and Minimum.

2-31 LED INDICATOR

- ✧ The device has 103 LED and display the operation status and hardware status.

2-32 USB PORT

- ✧ The function is not available in this version.

2-33 SD CARD

- ✧ Save the setting in SD card or download the setting to another device. When you going to save the SD card, it had to be format by Microsoft FAT16 system. During the copy SD card, the SD card check should be set in on that it can be copy in the FUNC menu.

2-34 MIDI IN

- ✧ Control the step by midi signal.

2-35 AUDIO IN

- ✧ Use Phone jet to connect the console during play back a show or a scene it can trigger by the audio control.

There is internal microphone in this console.

2-36 POWER IN

- ✧ 110V-240V 50-60 Hz power input.

2-37 DMX OUT

- ✧ DMX signal output connector, three types: XLR-3, XLR-5, and RJ11.
- ✧ RJ11 can connect Lite-Puter's DP-512, LED512, ED-450 and DPE-4000, which can connect Internet and lighting control software on PC to check channel's status.
- ✧ XLR-5 can connect Lite-Puter's DP-11DMX Patch Interface to realize the PATCH function.

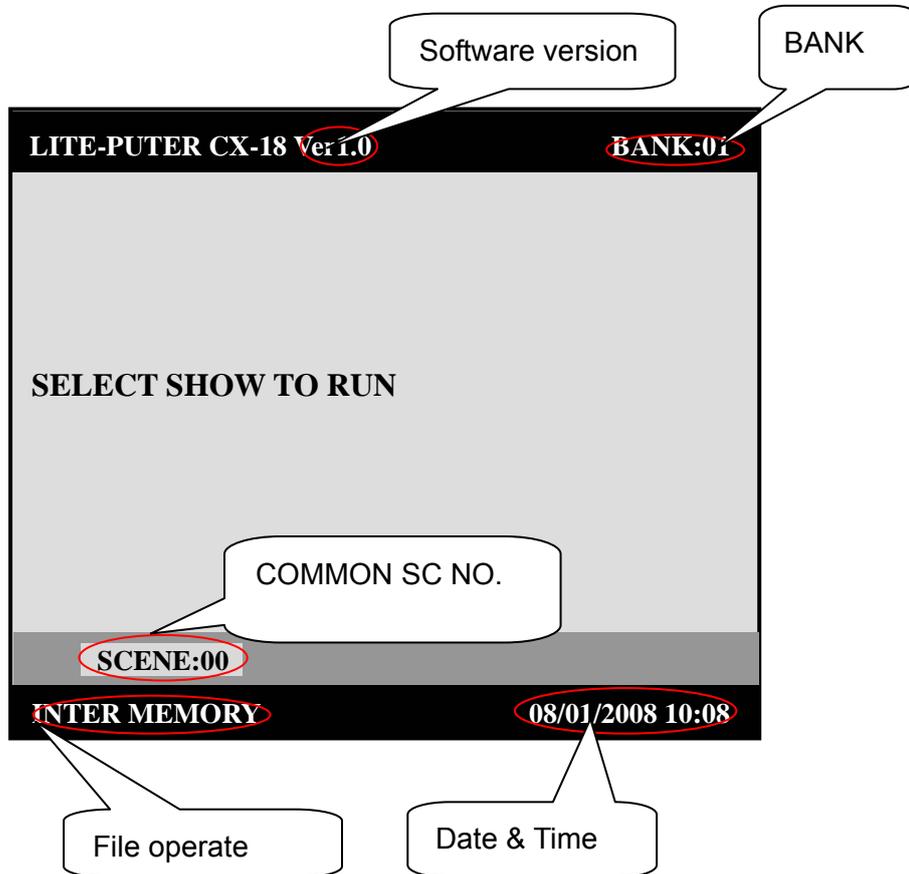
2-38 POWER ON/OFF

Power on and off.

Chapter 3 Operation

3-1 Home Page Introduction

One second after CX-18 switches on, its system will enter the HOME PAGE and LCD displays as below,



Attention:

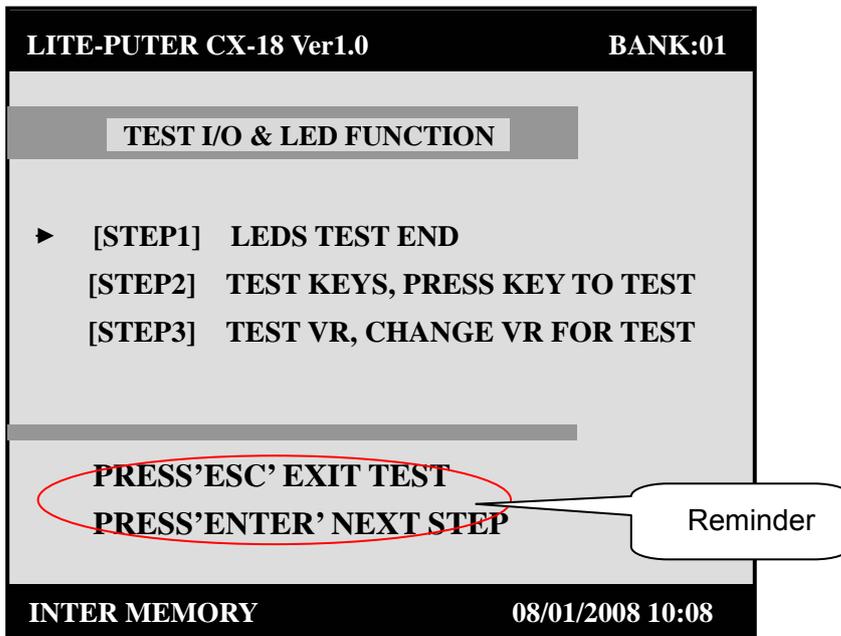
1. BANK NO. -----Use BANK 01~BANK 18 to change current BANK.
Each time after it switches on, it will automatically go back to BANK 01.
2. SCENE NO----- Use SCENE 01~ SCENE 18 to recall the COMMON SC under BANK.
Each time after it switches on, it will go back to SCENE:00 .
3. File operate status please refer to Chapter 3

3-2 Hardware inspection

Inspection function include: 82 LED indicators check
91 buttons check
21 Fader and 1 joystick check

82 LED indicators check

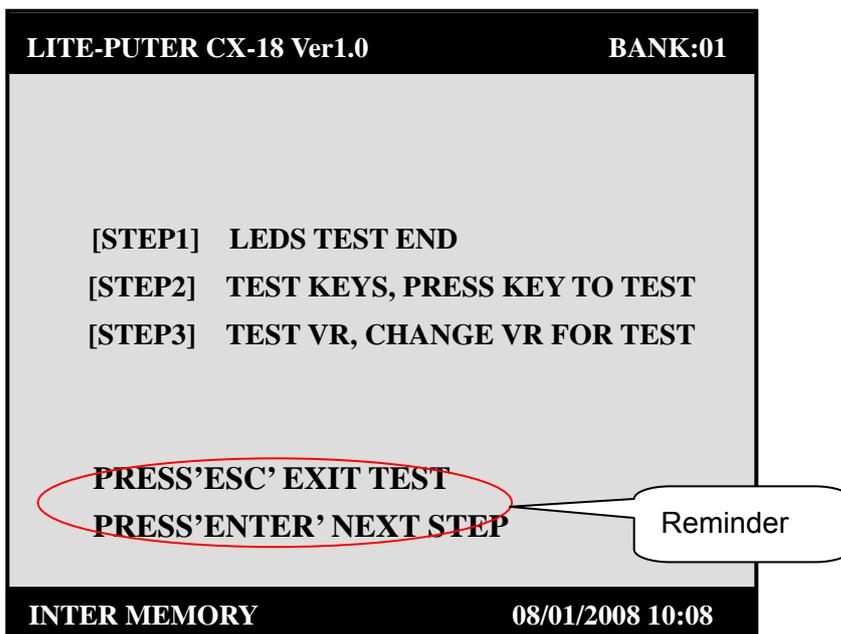
STEP-1 Press both **【ENTER】** and **【ESC】** at meantime switch on CX-18, LCD displays as below,



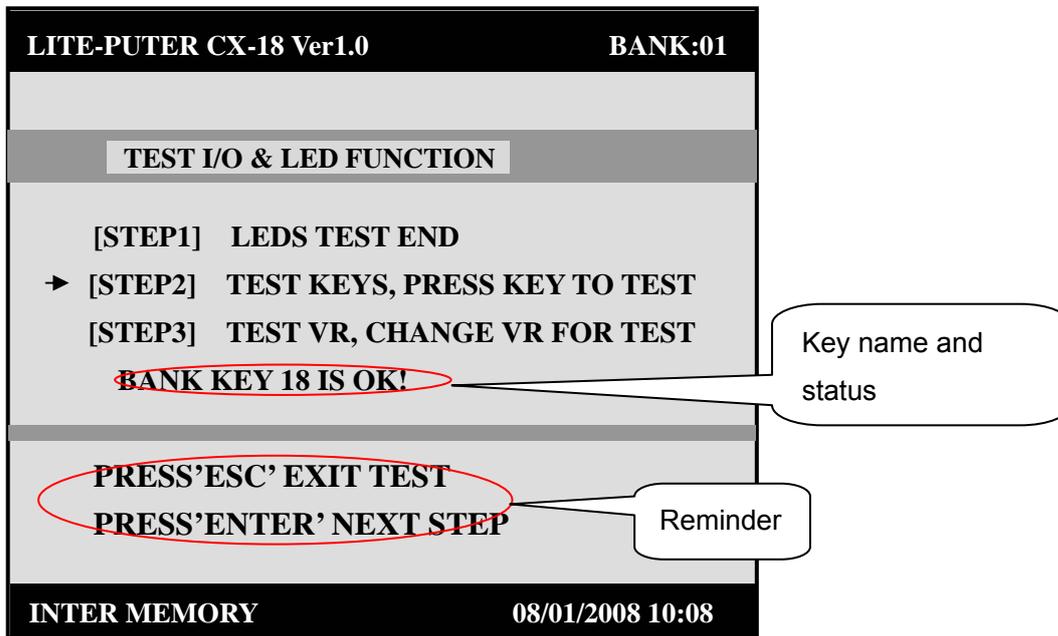
At this time , the 82 LED indicators will turn on (if not, it means the LED is broken)

91 buttons check

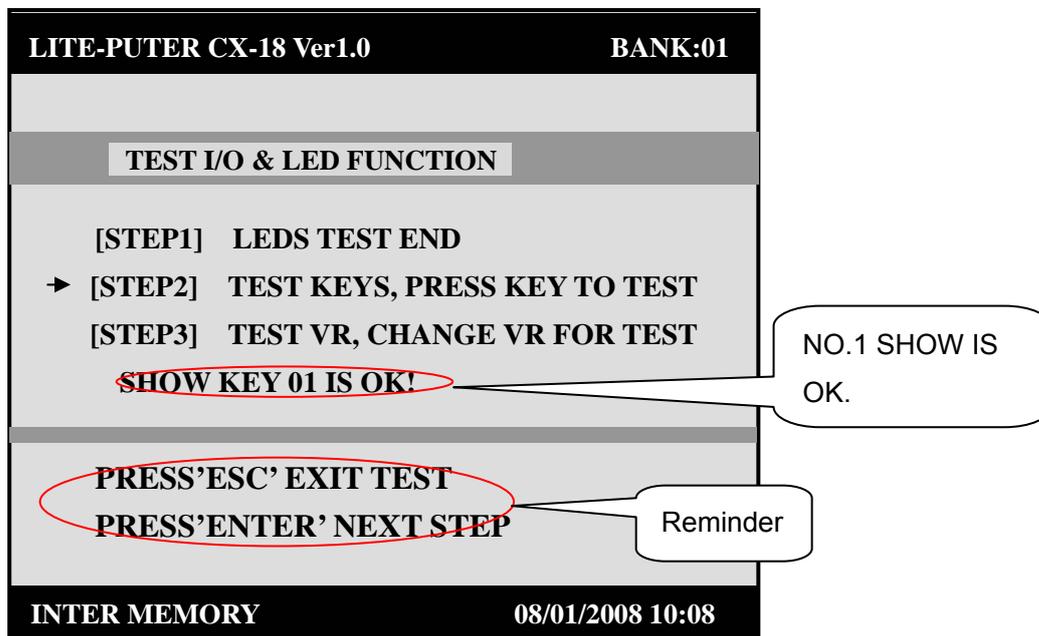
STEP-2 After LED inspection, system will automatically enter button check, LCD displays as below,



For example: check NO. 18 BANK button and NO. 1 SHOW button
Press BANK 18 on the front panel, LCD displays as below,



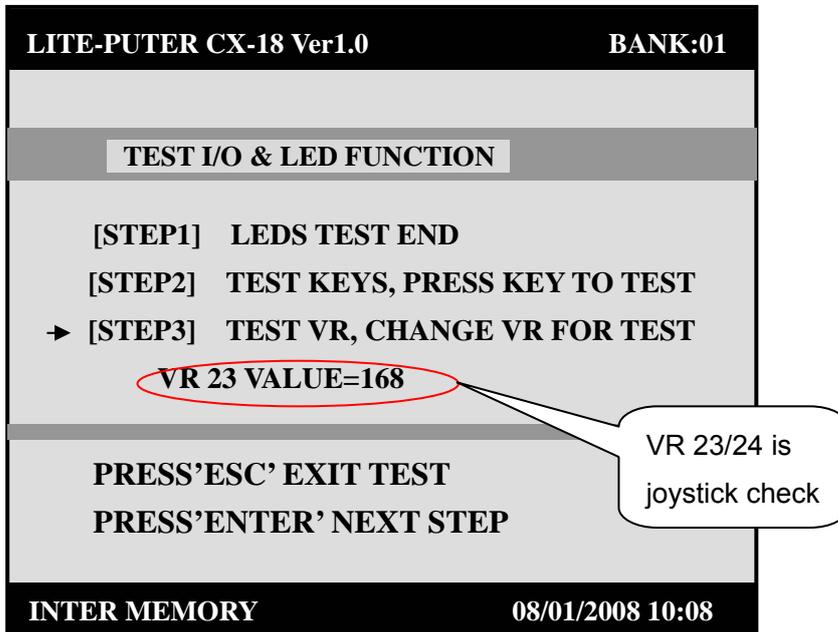
Then press the SHOW 1, LCD display as below,



Attention: When press NO. 1 SHOW, there is no SHOW BUTTON 01 IS OK! display on the LCD and still display BANK BUTTON 18 IS OK!, it means NO. 1 SHOW button is broken. Please check other button in the same way.

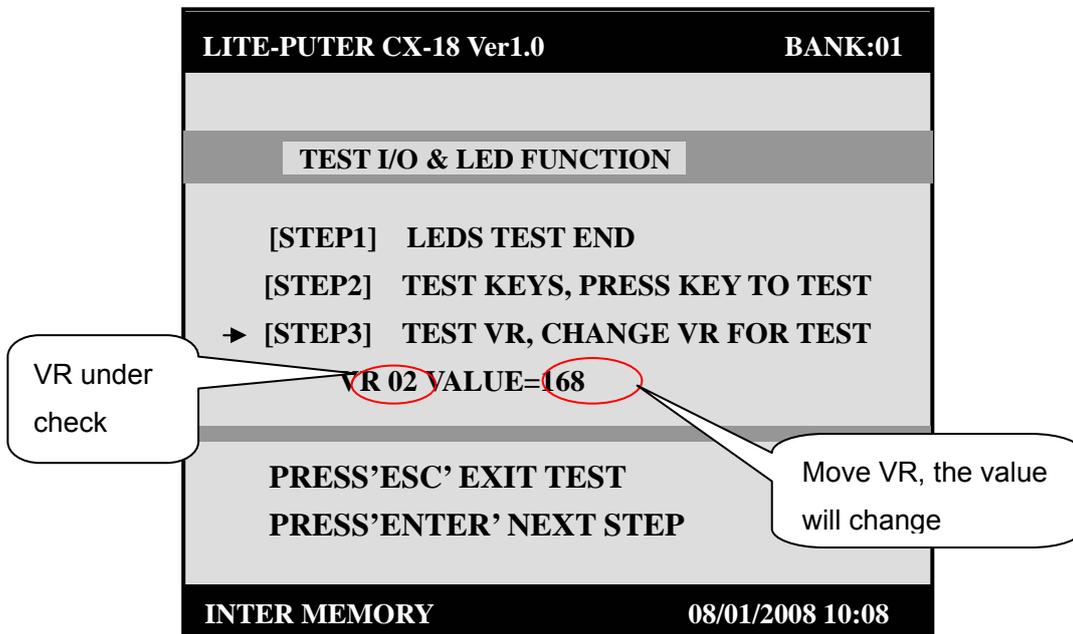
21 Fader and 1 joystick check

STEP-3 After **[STEP2]** button check, press **[ENTER]** move arrowhead to **[STEP3]** and LCD displays as below,



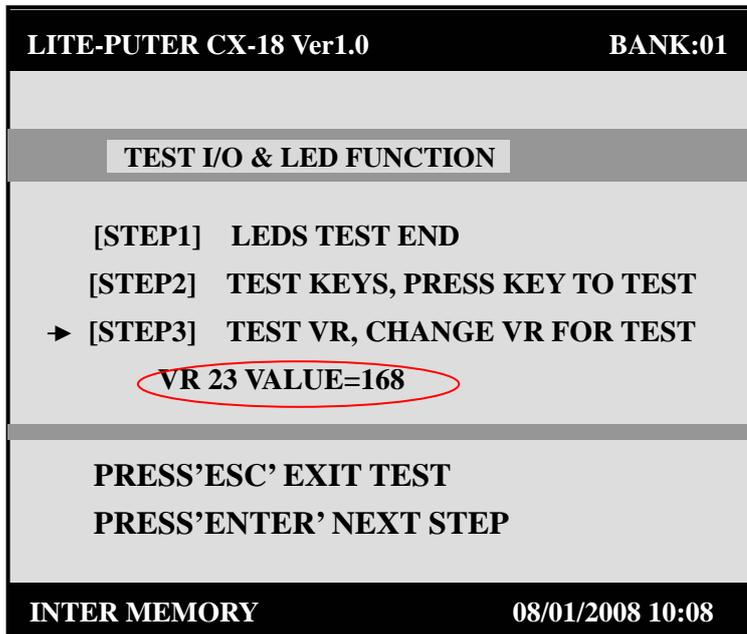
Now move fader to check the function.

For example: For example check fader 02, LCD display as below,



Introduction: VALUE=168-----Stand for fader value, it range from 000 to 255.
 fader 02 -----Stand for fader under check, CX-18 has 18 fader in total.

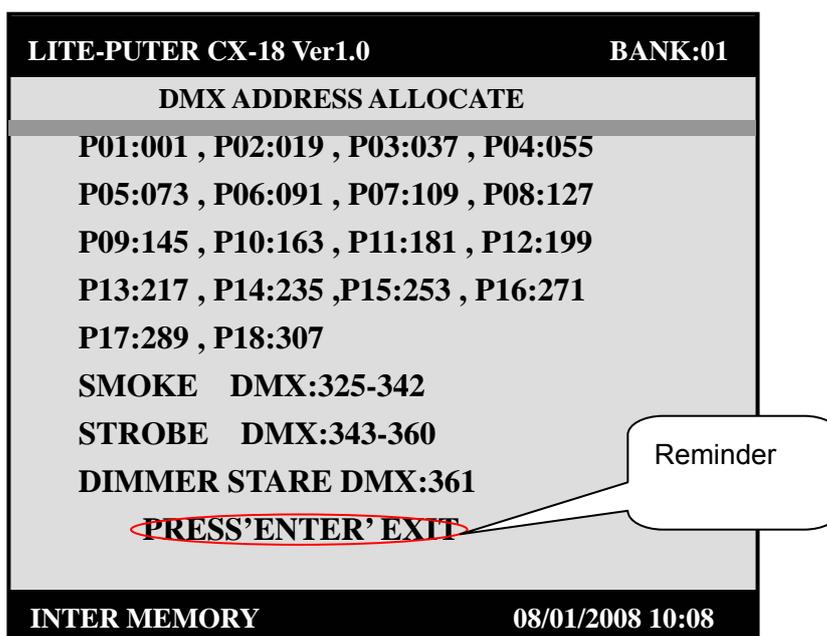
Attention: When move FADER 02, there is no FADER 02 VALUE=168 display on the screen but still display FADER 23 VALUE=168, it means FADER 02 is broken, LCD displays as below,



STEP-4 After hardware inspection, press **【ESC】** go back to HOME PAGE and LCD displays as below,

3-3 DMX Address Allocation Check

On the HOME PAGE, press **【ENTER】** and LCD displays as below,



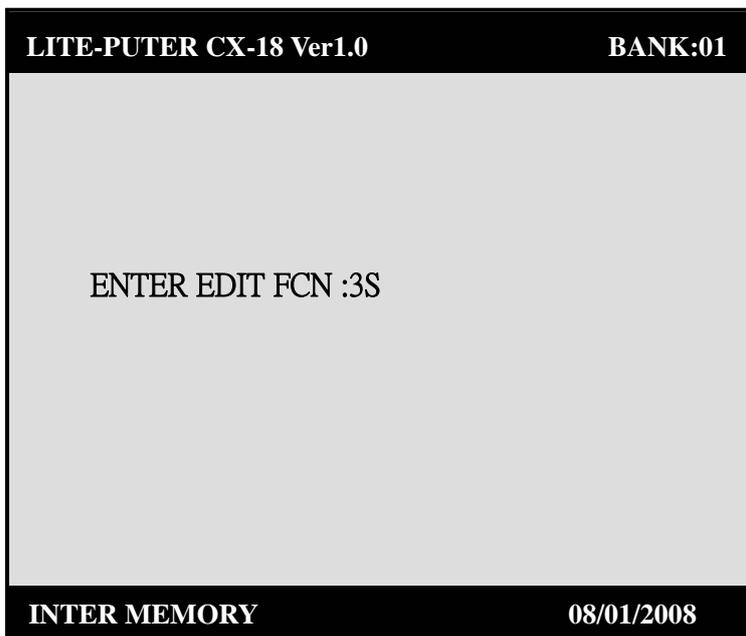
Introduction:

- 1.This function can check fixture’s DMX address allocation (DMX address change is not permitted)
- 2.PRESS‘ENTER’ EXIT---- They are operation reminder, press ‘ENTER’can go back to HOME PAGE.

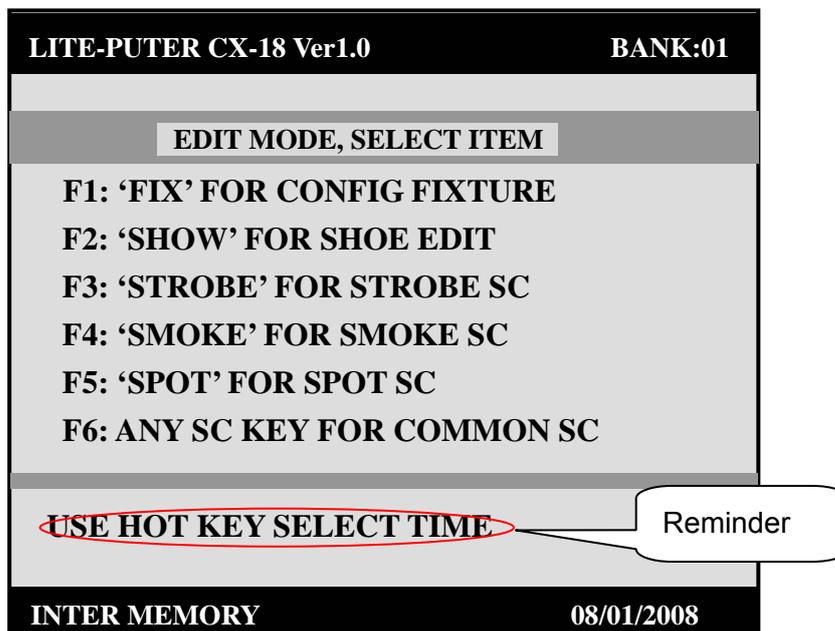
3-4 FIXTURE Setting

FIXTURE—moving light parameter setting

STEP-1 On the HOME PAGE, press **【EDIT】** and LCD displays as below,



STEP-2 Press **【EDIT】** for 3 seconds to enter function menu and LCD displays as below,

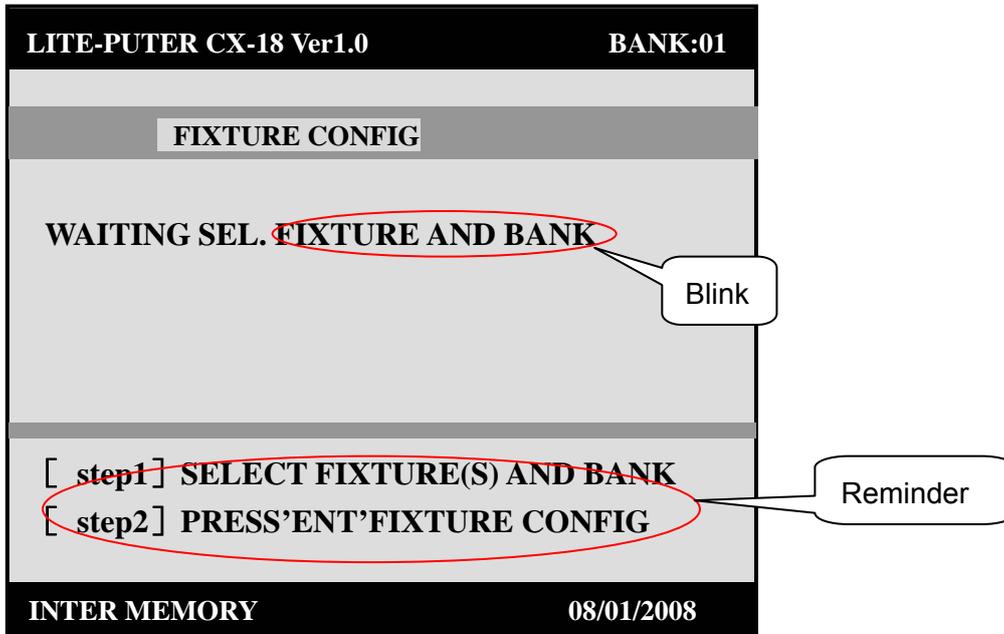


Introduction :

F1~F5 : Press FIX, SHOW, STROBE, SMOKE, SPOT separately to enter function setting.

F6 : Select any one from SCENC 01 to SCENC 18 to enter COMMON SC setting.

STEP-3 Press **【FIXTURE】** and LCD displays as below,

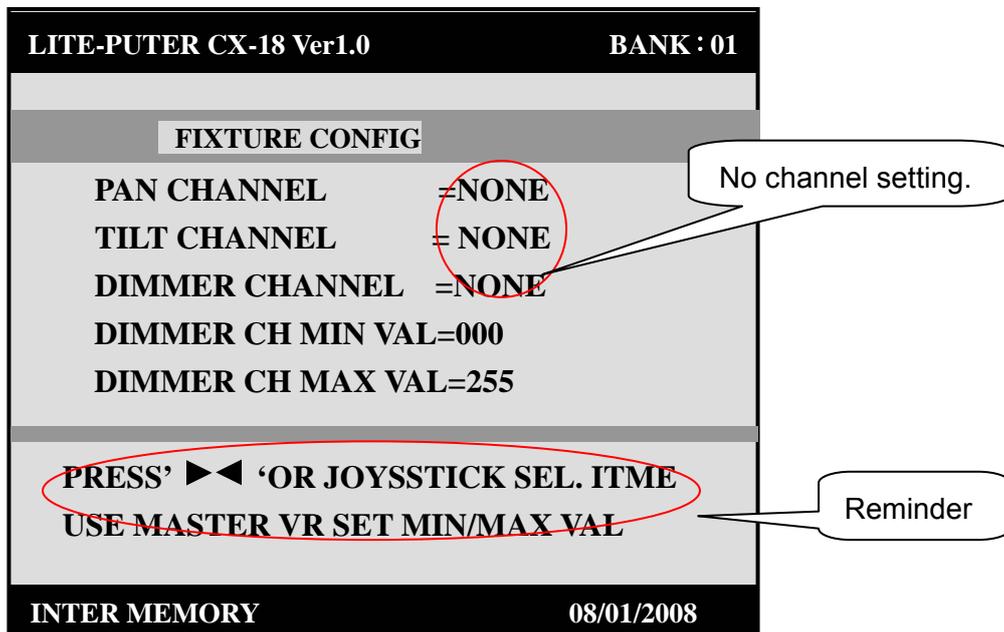


At this time, select fixture (moving light) and BANK.

(Select BANK first and then select the main fixture)

- a. Select one or more moving lights from P1 to P18 (mode: single, multiple, and jump select)
- b. Select only one from BANK 01 to BANK 18.

STEP-4 Press **【ENTER】** to enter moving light parameter setting menu and LCD displays as below,



Attention: Press **【MACRO】** to set fixture’s moving mode.

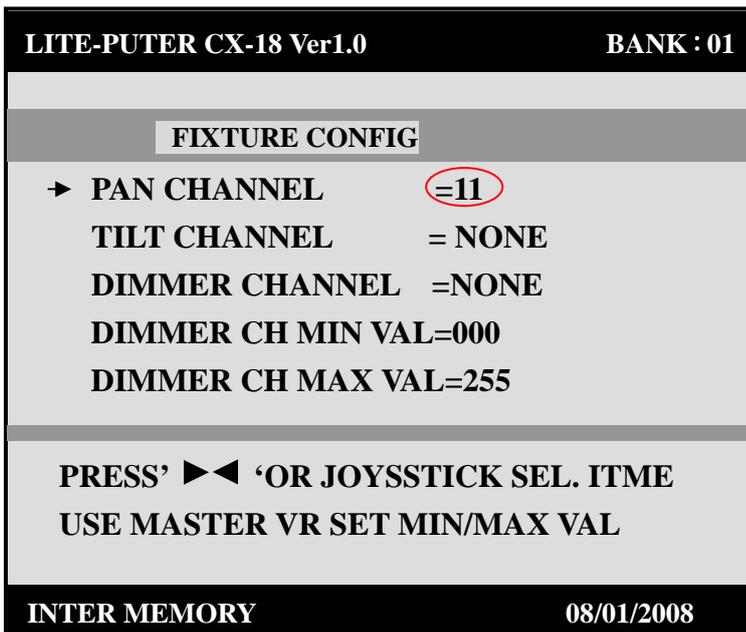
STEP-5 Press **【▶】** and **【◀】** (move joystick up and down) to set or change PAN,TILT, DIM CH,DIM CH MIN VAL and DIM CH MAX VAL.

STEP-6 When the arrowhead point to any one of PAN CHANNEL,TILT CHANNEL,DIMMER CHANNEL, you can move FADER1~FADER18 or **【MASTER】** to set or change DIM CH MIN VAL and DIM CH MAX VAL.

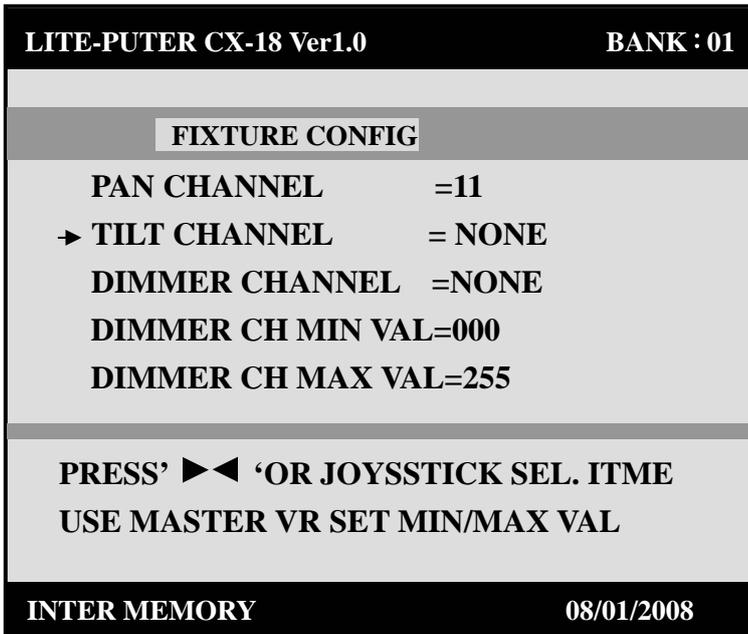
STEP-7 After setting, press **【ENTER】** to save and go back to FIXTURE menu.Attention: .When select PAN/TILT/DIMMER CH, you can use **【DEL】** to delete certain channel and it displays “NONE”.

For example: PAN CHANNEL set as channel 11
 TILT CHANNEL set as channel 12
 DIMMER CHANNEL set as channel 13
 DIM CH MIN VAL set as 125-----minimum dimming value
 DIM CH MAX VAL set as 200-----maximum dimming value

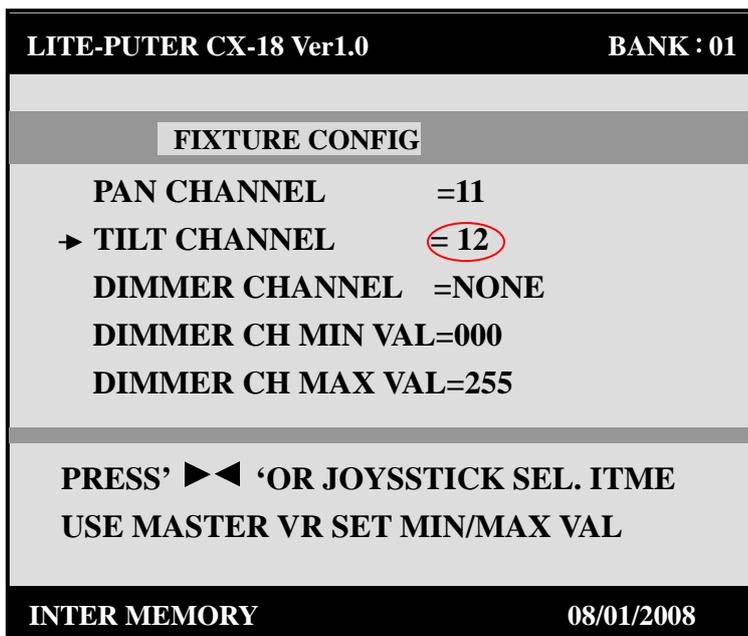
1. Under the condition of **STEP-4**, move VR11 and LCD displays as below,



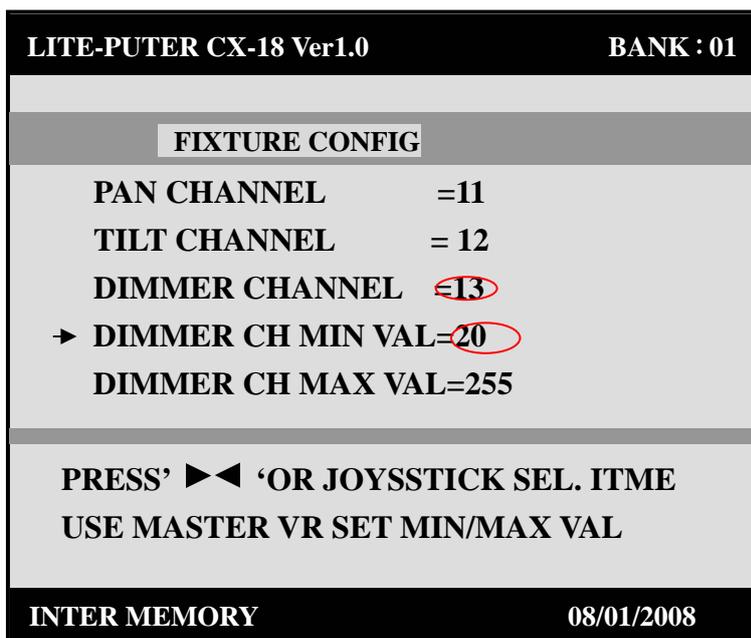
2. Press **【▶】** or move joystick (down) to select TILT CHANNEL , LCD displays as below,



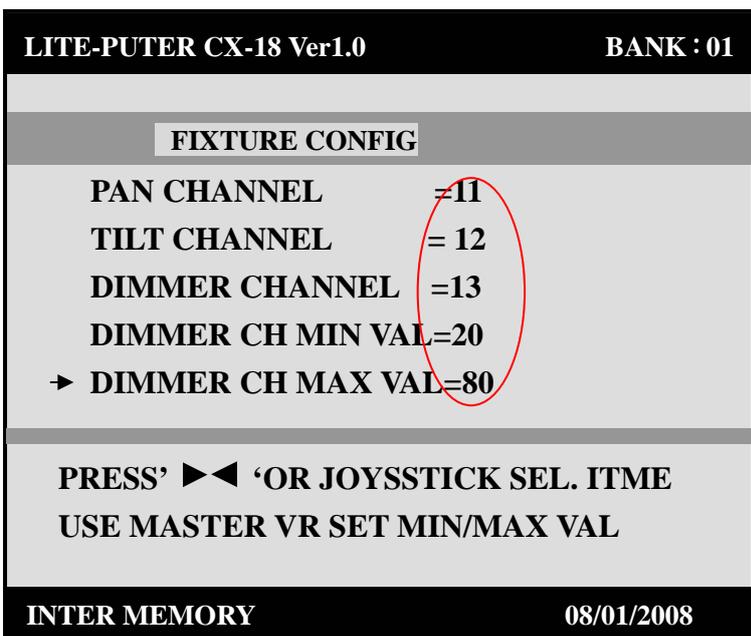
3. Move VR 12 to set TILT CHANNEL and LCD display as below,



4. Set DIMMER CHANNEL as channel 13, please refer to the above steps.
5. Move the arrowhead to DIMMER CH MIN VAL=000 and move **【MASTER】** to change 000 to 20, LCD display as below,



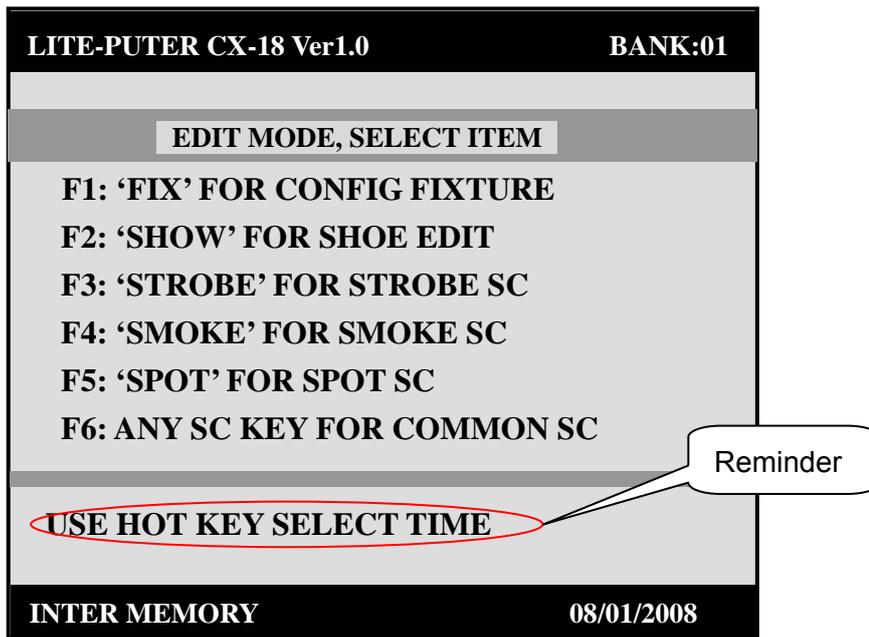
6. Move the arrowhead to DIMMER CH MAX VAL and move **【MASTER】** to change 000 to 80 to finish the setting and LCD displays as below,



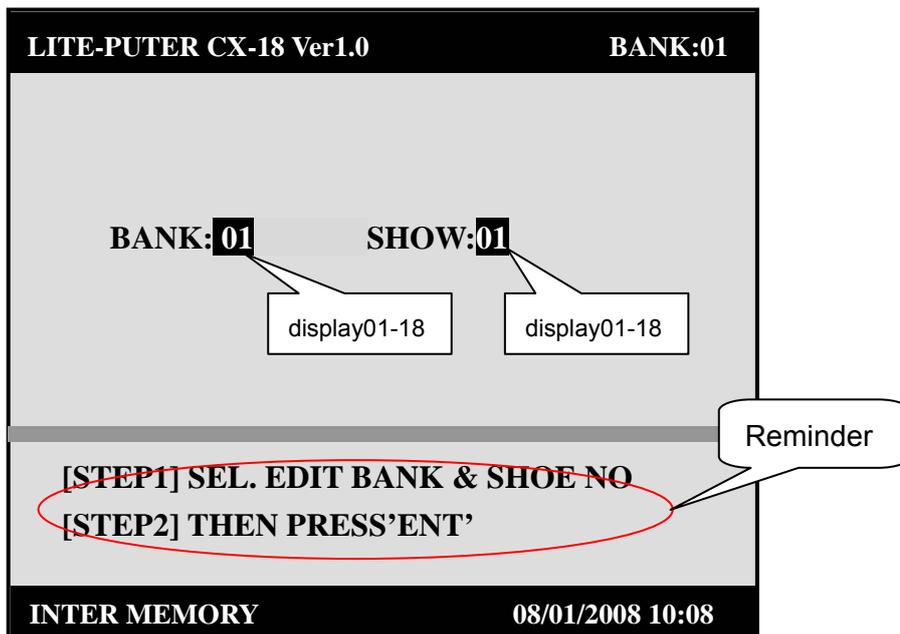
7. Press **【ENTER】** to save and go back to FIXTURE interface.

3-5 SHOW Setting/Recall

STEP-1 On the HOME PAGE, press **【EDIT】** for 3 seconds and LCD displays the function menu,

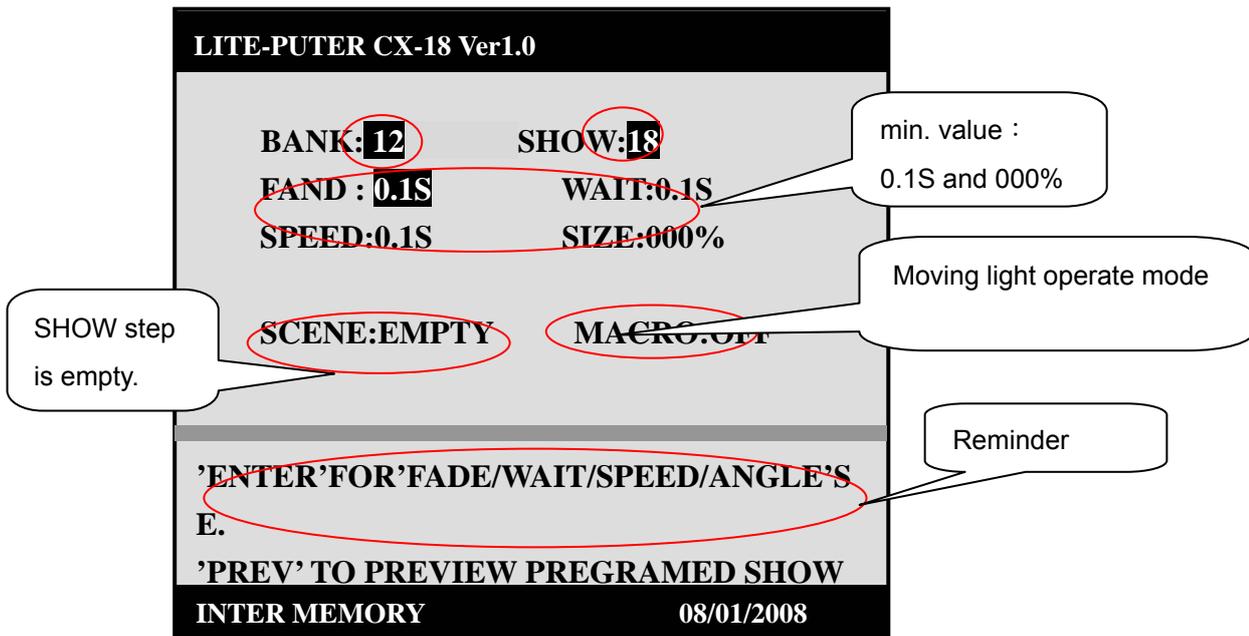


STEP-2 Press **【SHOW】** and LCD display as below,



STEP-3 Press BANK NO. (1~18) and SHOW NO.(1~18) to select the BANK and SHOW need to edit (for example, set BANK as 12 and SHOW as 18), LCD display as below, It means edit the SHOW 18 under BANK12. (Select BANK NO. first and then select SHOW NO.)

STEP-4 Press **【ENTER】** to enter SHOW edit menu and LCD displays as below,



Attention:

- FADE/WAIT/SPEED's value can range from 0.1S to 25.5S.
- Size's value can range from 000% to 100%.
- MACRO has 5 operate modes: OFF/PAN/TILT/CIRC/-CIRC
- SCENE can range from 1 to 32 steps.

STEP-5 Press **【P1—P18 FIXTURE NO.】** to select any moving light need to edit. (The LED on P1—P18 will turn on when the correspond moving light is selected)

For example: FADE TIME set as: 22.2S

WAIT TIME set as: 18.6S

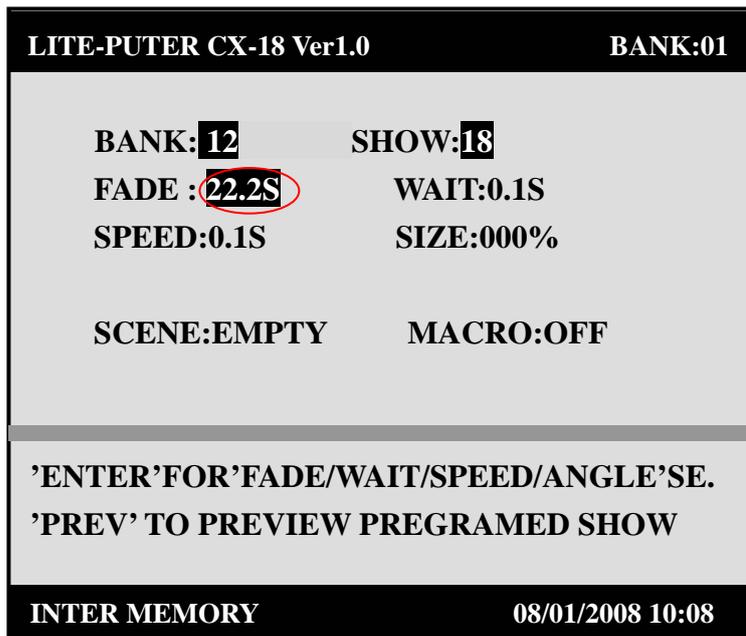
SPEED TIME set as: 18.6S

SIZE set as: 88%

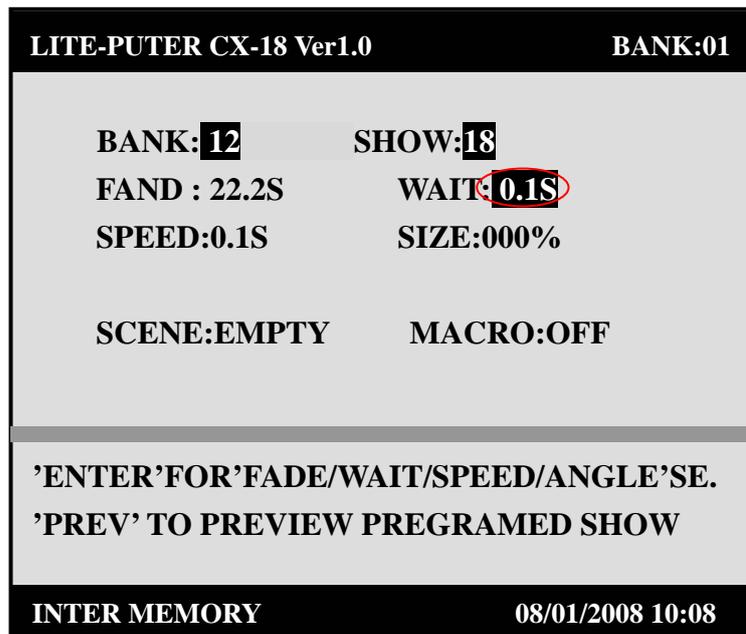
MACRO set as: PAN

SCENE: SHOW step as 8 steps

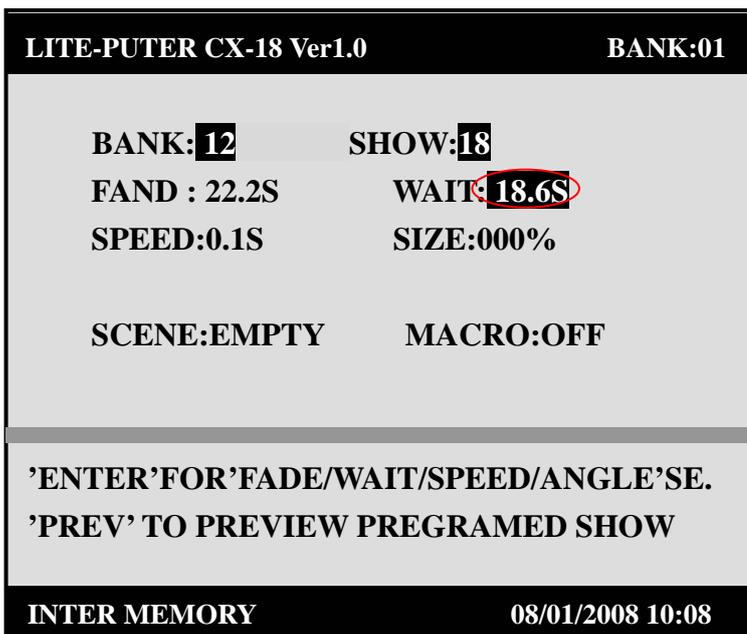
STEP-6 Press **【ENTER】** to select FAND/WAIT/SPEED. When FADE is selected, it displays as 0.1S, and move **【FADE TIME PITCH】** FADER to change FADE TIME as 22.2S, LCD displays as below,



STEP-7 Press **【ENTER】** once again to select WAIT and LCD displays as below,

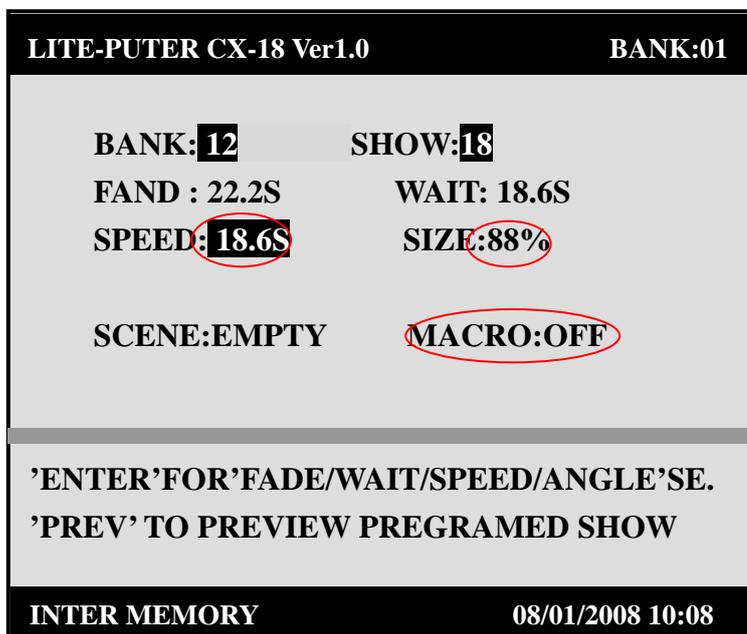


STEP-8 Move **【FADE TIME PITCH】** FADER to set WAIT TIME as 18.6S and LCD displays as below,

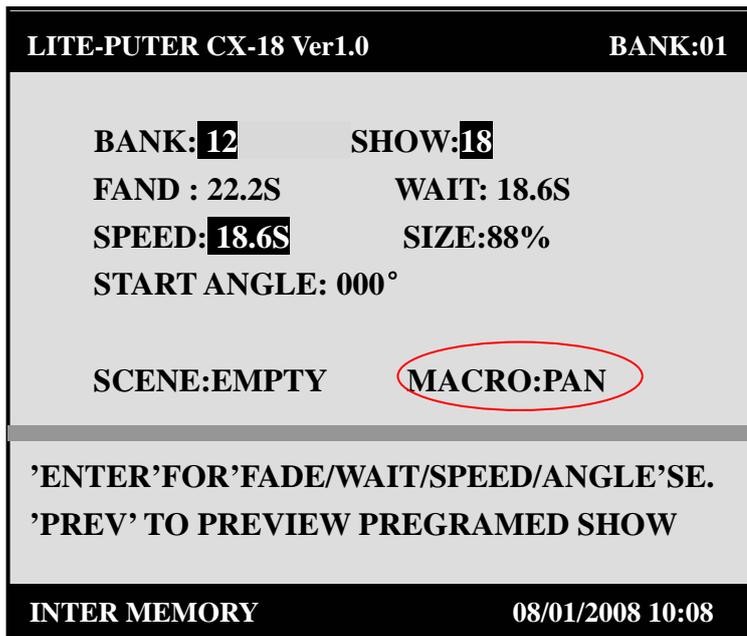


Set SPEED TIME, please refer to the steps of FADE/ WAIT TIME setting.

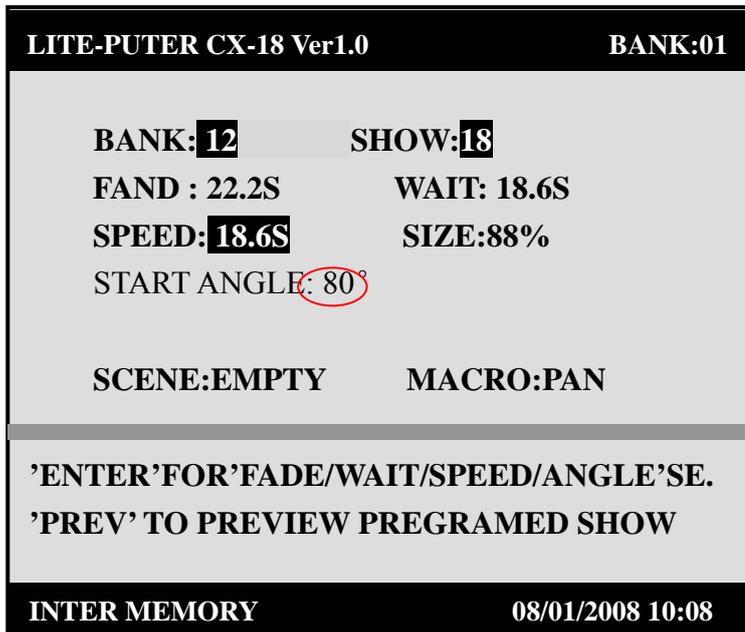
STEP-9 Move **【RANGE】** FADER to set SIZE as 88%, (no need to choose SIZE:000%) and LCD displays as below,



STEP-10 MACRO setting (moving light operate mode setting) . The current mode is OFF. Press **【MACRO】** to set moving light operate as PAN and LCD displays as below, (START ANGLE : 000°)



STEP-11 Moving light operate angel setting. Press **【ENTER】** to select START ANGLE and move **【FADE TIME PITCH】** FADER to set START ANGLE value. (for example, set as 80°) LCD displays as below,



Special attention:

- 1.Each STEP of SHOW and each moving light on STEP can be set different parameter.
2. Moving lights on each STEP have independent operate mode, please refer to following example.

For example: set 4 moving lights on STEP 1

- First moving light's operate mode is -CIRC
- Second moving light's operate mode is CIRC
- Third moving light's operate mode is TILT
- Fourth moving light's operate mode is PAN

STEP-1 Enter SHOW edit menu, press **【P1 FIXTURE NO.LED on P1 will turn on and**
 Repeat the steps from **STEP-6** to **STEP-10** to set the parameter, and then repeat
STEP-11 to **STEP-12** set moving light operate as -CIRC and START ANGLE as 60°.

STEP-2 Move FADER1—FADER18 to edit SCENE on STEP.

STEP-3 After P1 setting, press **P1 FIXTURE NO.】** to exit (LED on P1 will turn off and then
 press **P2 FIXTURE NO.LED on P2** will turn on) .

STEP-4 Repeat **STEP-6** to **STEP-10** set parameter and then repeat **STEP-11** to **STEP-12**
 set moving light operate mode as CIRC and START ANGLE as 90°.

Please repeat above step to set the third and fourth moving light.

After above setting, then go to the STEP setting on SHOW (ADD, DEL and INSER) . STEP can range from 1 to 32.

STEP-12 If add first STEP, move VR1—VR18 to edit STEP (When the channel is on editing, the LED on correspond FADER will turn on)

STEP-13 Press ADD to save the setting (max. number is 32) and LCD displays as below,

LITE-PUTER CX-18 Ver1.0 **BANK:01**

BANK:12 **SHOW:18**

FAND : 22.2S **WAIT: 18.6S**

SPEED: 18.6S **SIZE:88%**

START ANGLE: 80°

SCENE: 01, 01 **MACRO: PAN**

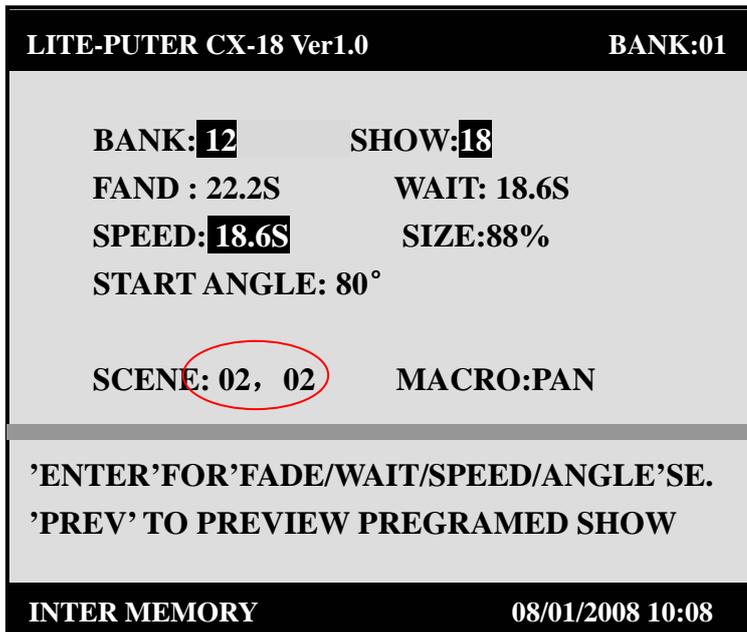
'ENTER' FOR 'FADE/WAIT/SPEED/ANGLE' SE.
'PREV' TO PREVIEW PREGRAMED SHOW

INTER MEMORY **08/01/2008 10:08**

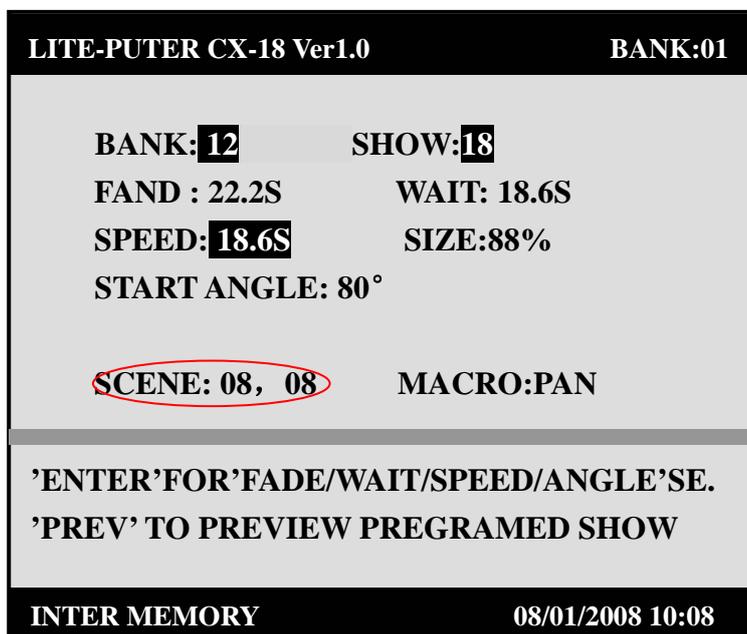
SHOW on editing now

Total no. of SHOW step under BANK

STEP-14 Add second STEP, repeat **STEP-5** and **STEP-12** then press ADD to save the setting, LCD displays as below,



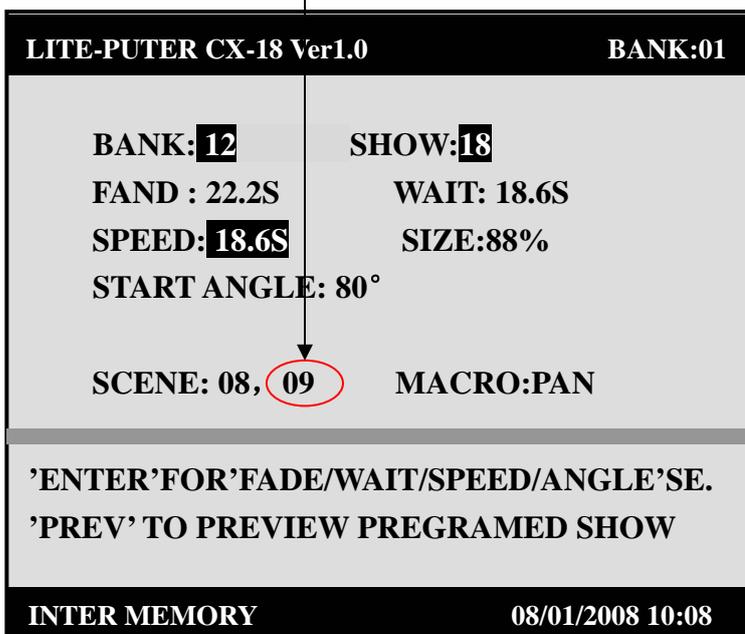
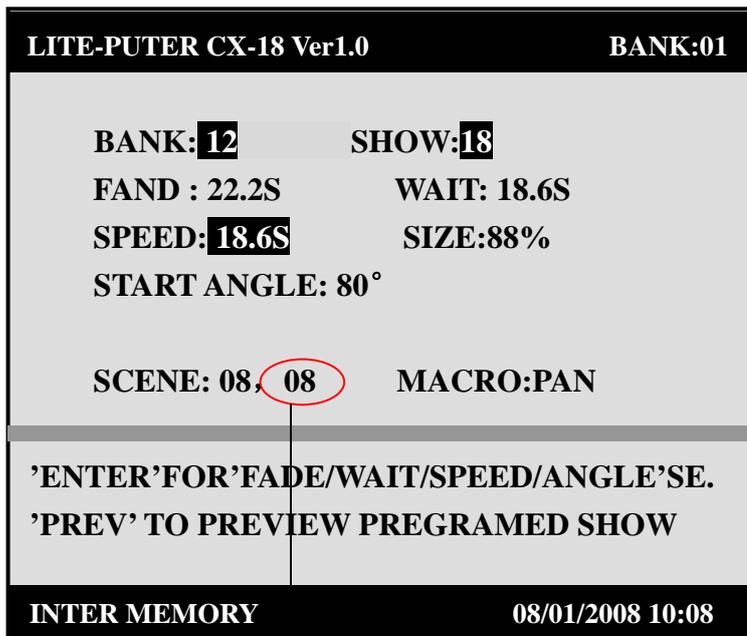
STEP-15 Add third to eighth STEP, repeat **STEP-12** and **STEP-13** and LCD displays as below,



3-5-1 INSERT STEP

The STEP insert function means insert a new STEP in front of any preset STEP.
Press **▶** **◀** to select the place need insert step and repeat **STEP-5** and **STEP-12**
For example: insert a new STEP in front of the eighth STEP.

After setting, press **INS** to save the STEP insert and LCD displays as below,



3-5-2 EDIT STEP

After STEP setting finished, user can change it.

When SHOW is on editing, select STEP need to change and move VR1—VR18 to edit it then pres **【STORE】** to save the change.

3-5-3 Delete Step

Delete STEP on SHOW. When SHOW is on editing, press **【▶】** **【◀】** to select STEP need to delete and then press **【DEL】** to delete it.

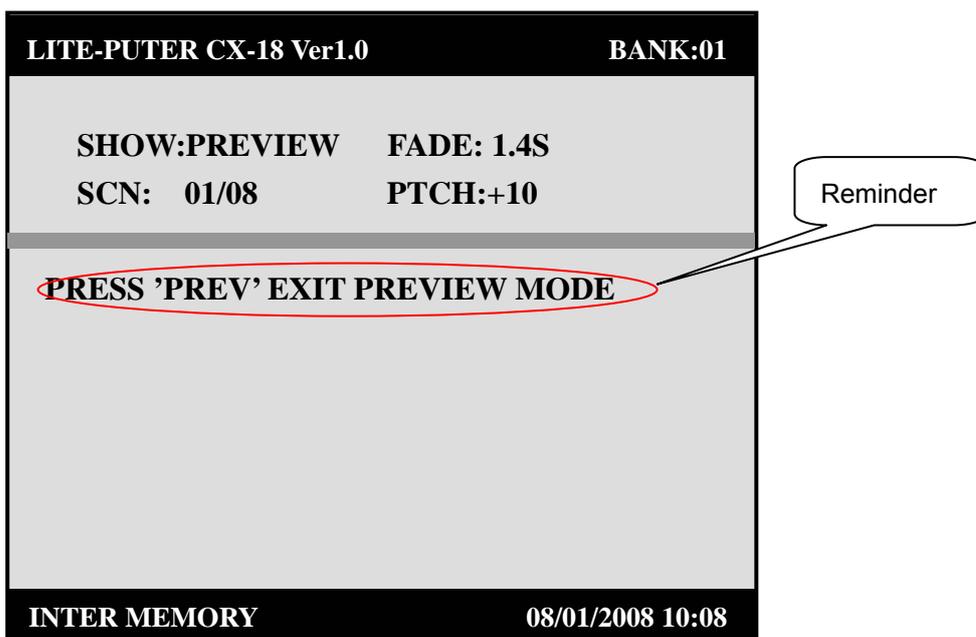
3-5-4 Preview SHOW

When SHOW is on editing, user can preview it.

STEP-1 On SHOW edit menu, LCD displays as below,

LITE-PUTER CX-18 Ver1.0		BANK:01	
BANK: 12	SHOW: 18		
FAND : 22.2S	WAIT: 18.6S		
SPEED: 18.6S	SIZE:88%		
START ANGLE: 80°			
SCENE: 08, 08	MACRO: PAN		
'ENTER' FOR 'FADE/WAIT/SPEED/ANGLE' SE.			
'PREV' TO PREVIEW PREGRAMED SHOW			
INTER MEMORY		08/01/2008 10:08	

STEP-2 Press **【PREV】** , LCD displays as below,



Move **【FADE TIME PITCH】** FADER to change SHOW STEP shift speed and then user can preview it.

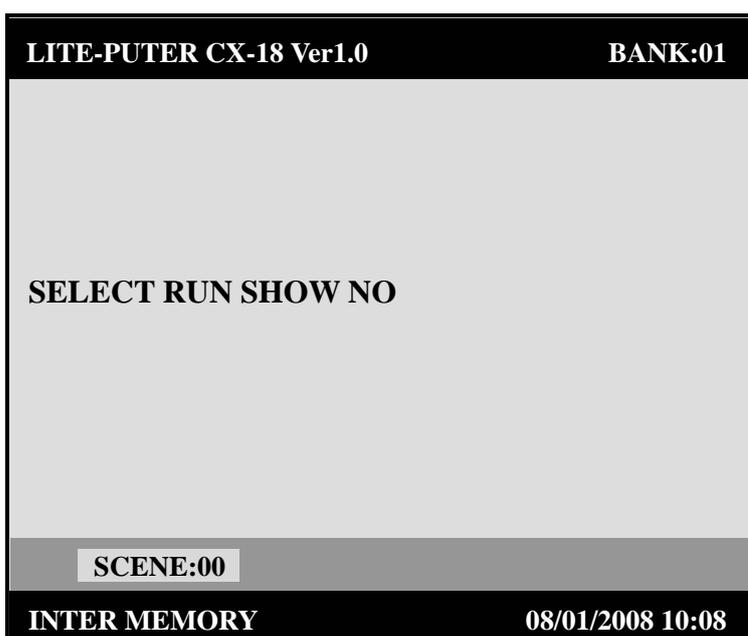
STEP-3 After preview, press **【PREV】** to exit and continue SHOW setting.

3-5-5 Recall SHOW

SHOW recall has 2 modes, one is internal recall; another is AUDIO/MIDI recall.

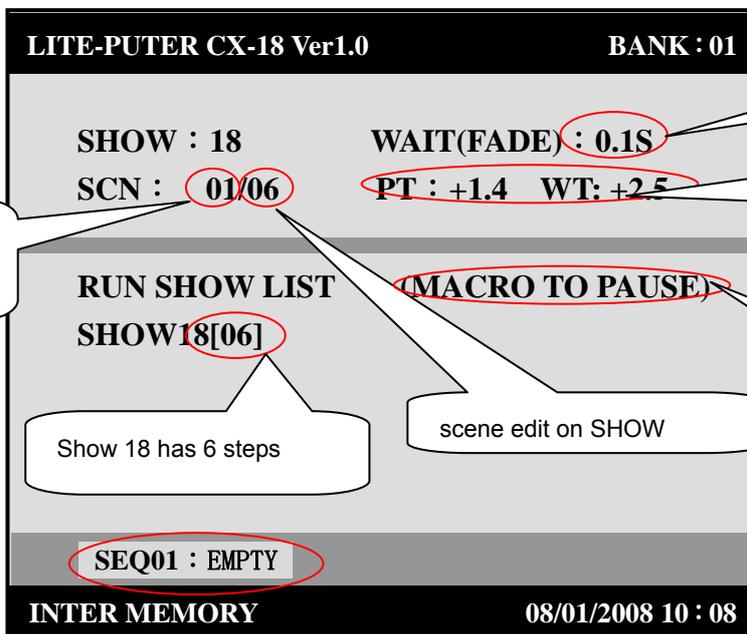
Mode 1: Select preset BANK NO.

STEP-1 Press **【SHOW】** and LCD display as below,



STEP-2 Press SHOW NO. (LED on the selected button will turn on) and LCD displays as below,

(For example, recall SHOW 18 under BANK 18)



FAND/WAIT/SPEED
time shift

WAITTIME/FADE TIME
Adjust

scene operate
on SHOW

Show 18 has 6 steps

scene edit on SHOW

Press MACRO
to pause or run
SHOW



:Only when recall SEQ, this function display will come out. 02/07 means the SCENE STEP of SEQ. 02 means the current step; 07 means the total step number.



:It mean there is no SCENE STEP on SEQ.

Attention:

- 1.SHOW step =SHOW scene
2. SCN: 01/06-SHOW step is change from 01 to 06 (max. 01~32) .
3. PT, WT range from+10 to -10. FADE TIME PITCH FADER and RABGE FADER control them separately.
 +10~0 means WAIT/FADE TIME's negative growth(The speed will faster, for example, FADE TIME is 0.2 and PT is +1.4 then FADE TIME is 0.5X1/1.4. So as to WAIT TIME)
 0~10 means WAIT/FADE TIME's positive growth(the speed will slower, for example, FADE TIME is 1.0 and PT is -2.5 then FADE TIME is 0.5X2.5. So as to WAIT TIME)

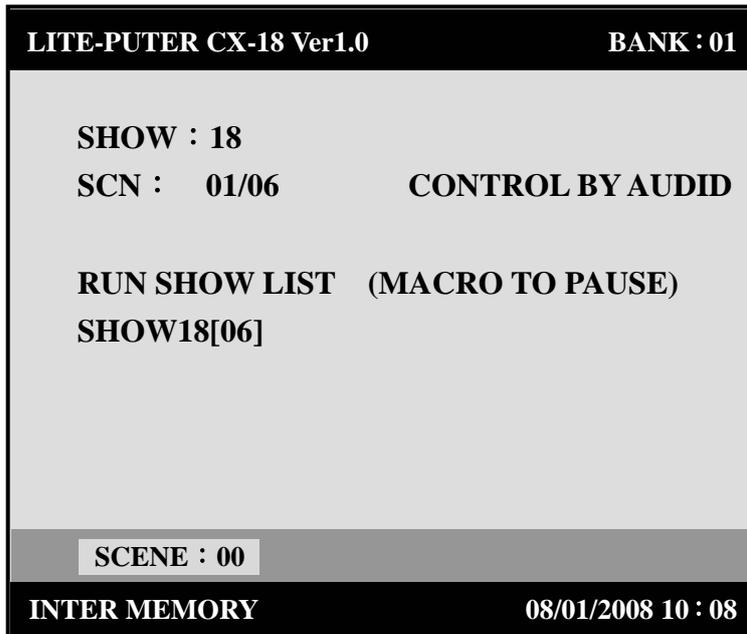
Attention:

- a. When recall SHOW, SHOW NO.has 3 select mode: signal, multiple, jump select.
 signal select----select any one from SHOW NO.1 to SHOW NO.18
 multiple select----press start SHOW NO.and then press end SHOW NO.
 (for example, select SHOW NO.8 to SHOW NO.17, press SHOW NO.8and then press SHOW NO.17)
 Jump select----select any one or more from SHOW NO.1~ SHOW NO.18
- b. On 3-5-5 **STEP-2** when recall the SHOW 18 under BANK 18 and LCD displays as below,

LITE-PUTER CX-18 Ver1.0		BANK:01
SHOW:18	WAIT:0.1S	
SCN: 01/06	PTCH:+1.4	
RUN SHOW LIST		
SHOW01[00].SHOW02[00].SHOW03[00]		
SCENE:00		
INTER MEMORY	08/01/2008 10:08	

STEP-3 Move **【FADE TIME PITCH】** FADER to change SHOW speed.

Mode 2: On the condition of internal recall SHOW, move **【FADE TIME PITCH】** FADER to the bottom and LCD displays as below,



STEP can change with the music or directly controlled by MIDI.

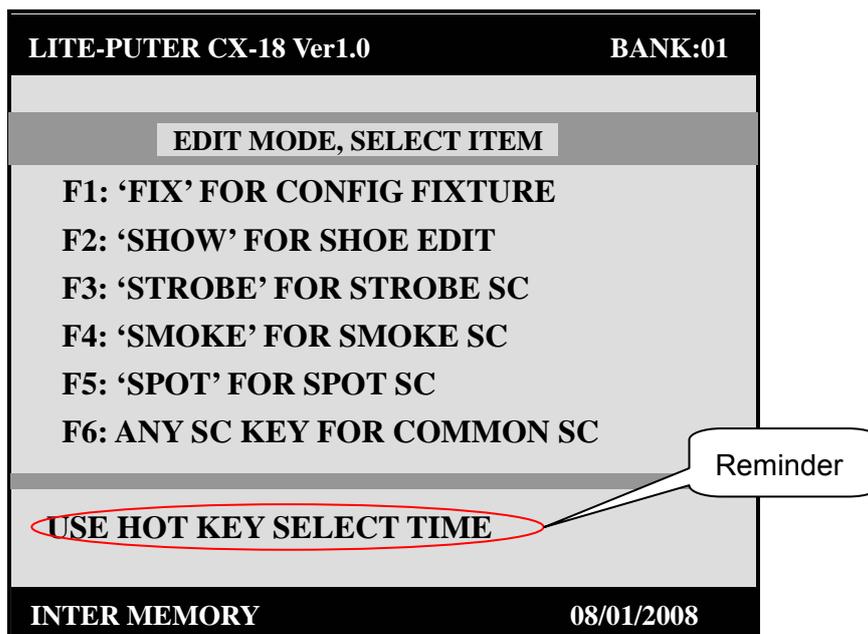
3-6 STROBE Setting/Recall

Introduction: STROBE has 2 scene modes.

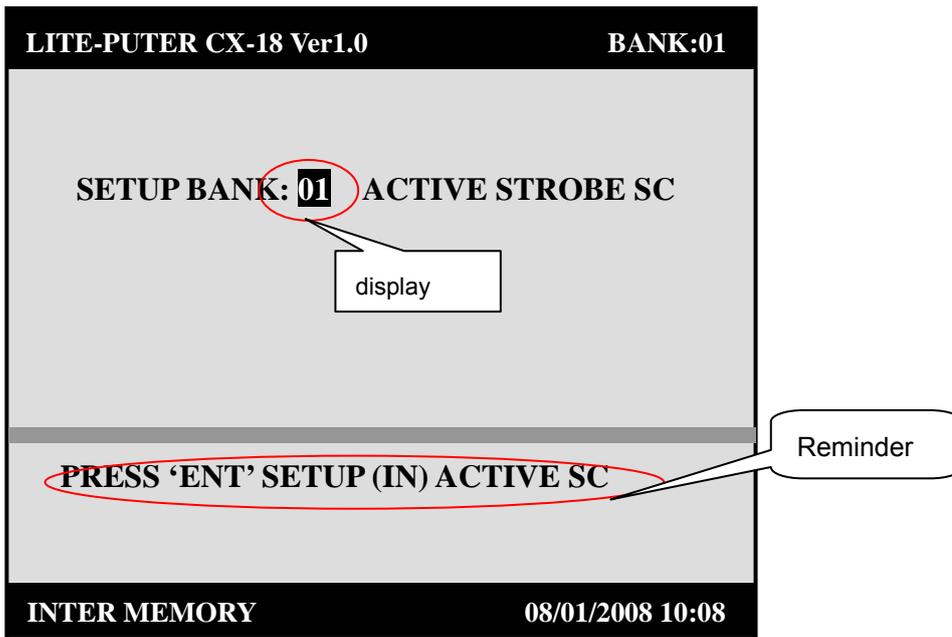
Press **【STROBE】** recall the ACTIVE STROBE SC;

Release **【STROBE】** recall the INTIVE STROBE SC;

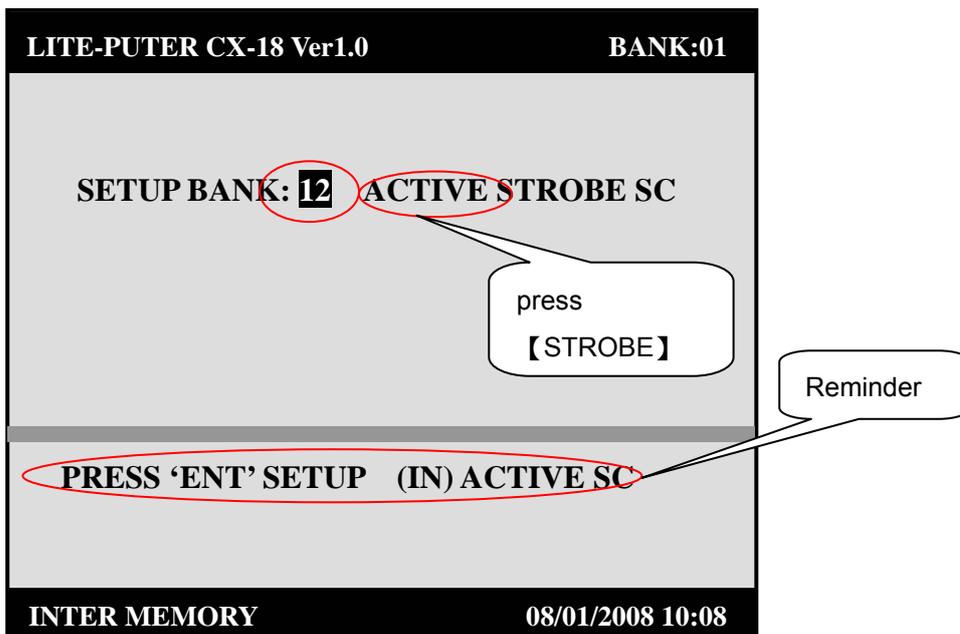
STEP-1 On the home page, press **【EDIT】** for 3 seconds and LCD displays the function menu,



STEP-2 Press **【STROBE】** and LCD displays as below, :



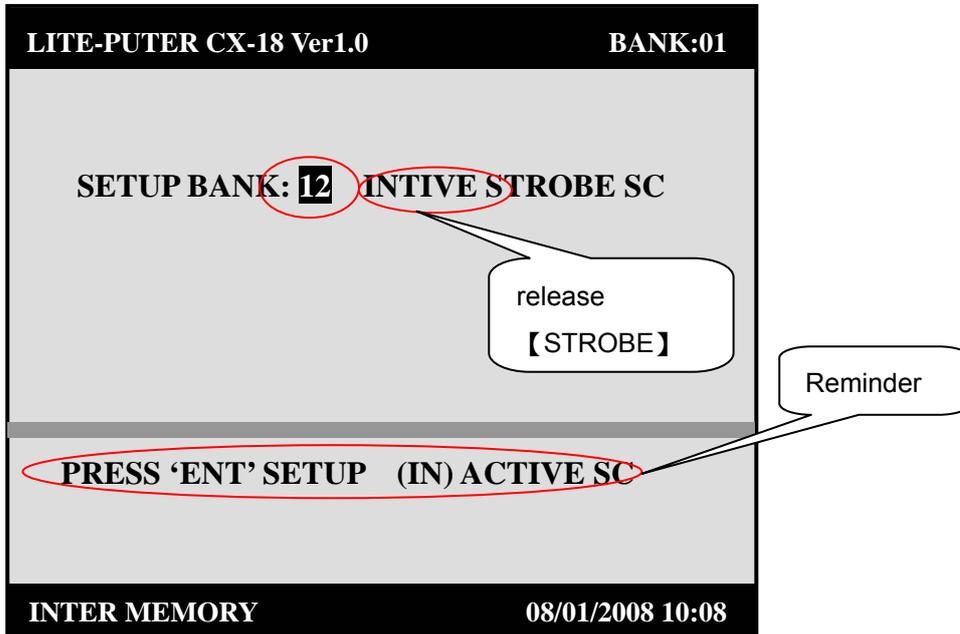
STEP-3 Press BANK NO. (1~18) to select the BANK NO. need to edit (for example, change BANK as 12) and LCD displays as below,



STEP-4 Move VR1—VR18 to edit the channel and its dimming value (LED on the correspond button will turn on)

Attention: STROBE's setting is no need to use P1—P18 FIXTURE NO.

STEP-5 After setting, press **【ENTER】** to save it to ACTIVE STROBE SC and automatically enter INTIVE STROBE SC setting, LCD displays as below,



STEP-6 INACTIVE STROBE SC's setting is same as that of ACTIVE STROBE SC.

3-6-1 STROBE Recall

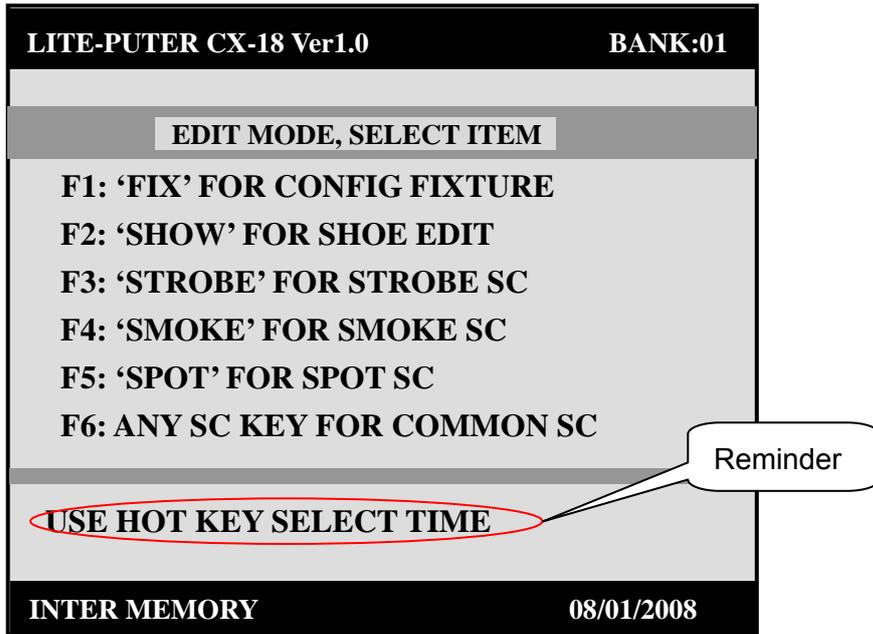
After STROBE setting, press **【ESC】** 2 times to enter the home page.
 First select BANK NO. and press **【STROBE】** to recall ACTIVE STROBE SC and then release **【STROBE】** to recall INACTIVE STROBE SC.

3-7 SMOKE Setting/Recall

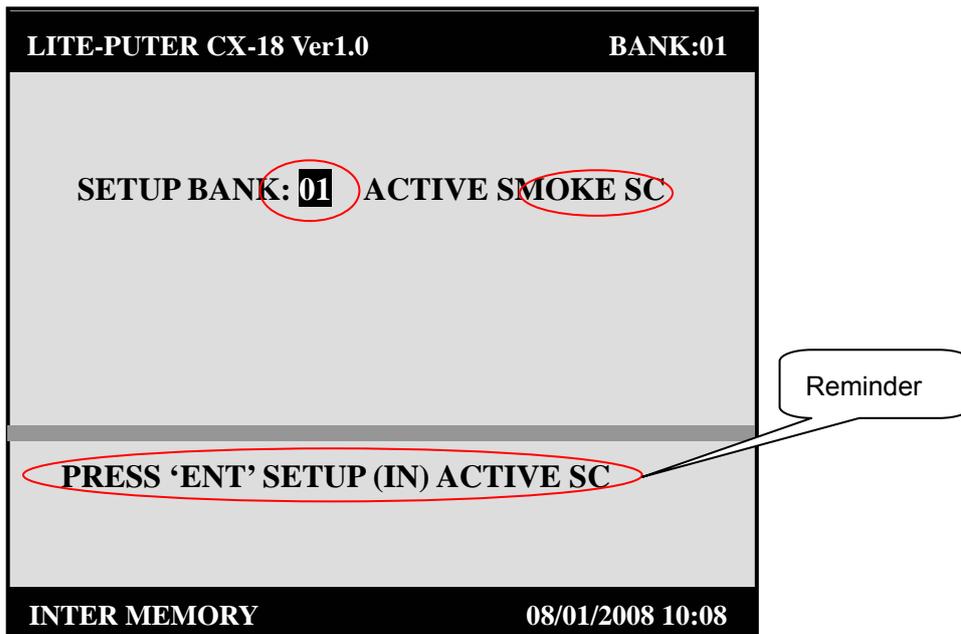
Introduction: SMOKE has 2 scene modes.

- Press **【SMOKE】** to recall ACTIVE SMOKE SC;
- Release **【SMOKE】** to recall INTIVE SMOKE SC;

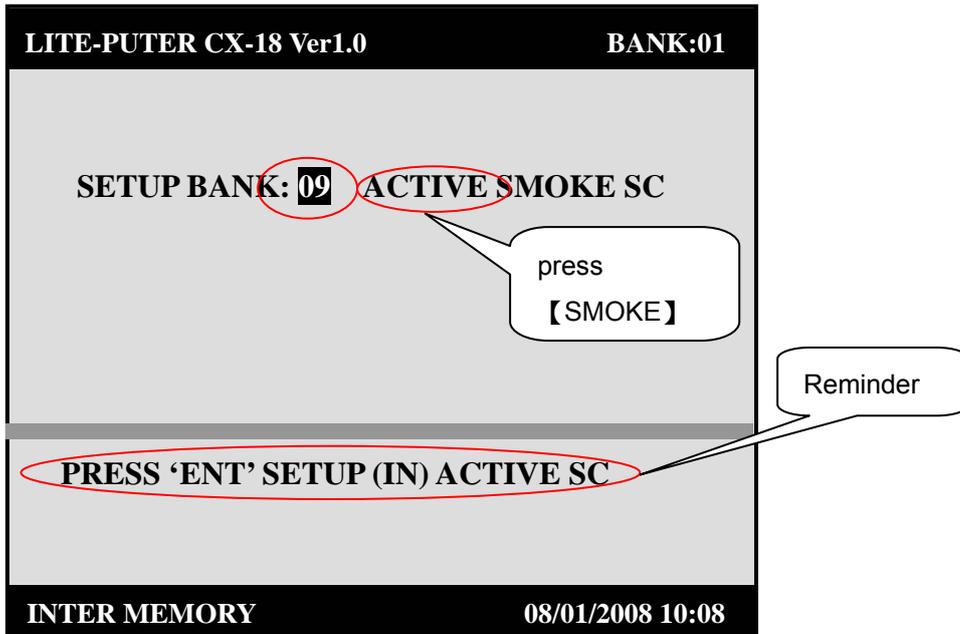
STEP-1 On the home page, press **【EDIT】** for 3 seconds and LCD displays the function menu,



STEP-2 Press **【SMOKE】** and LCD displays as below,



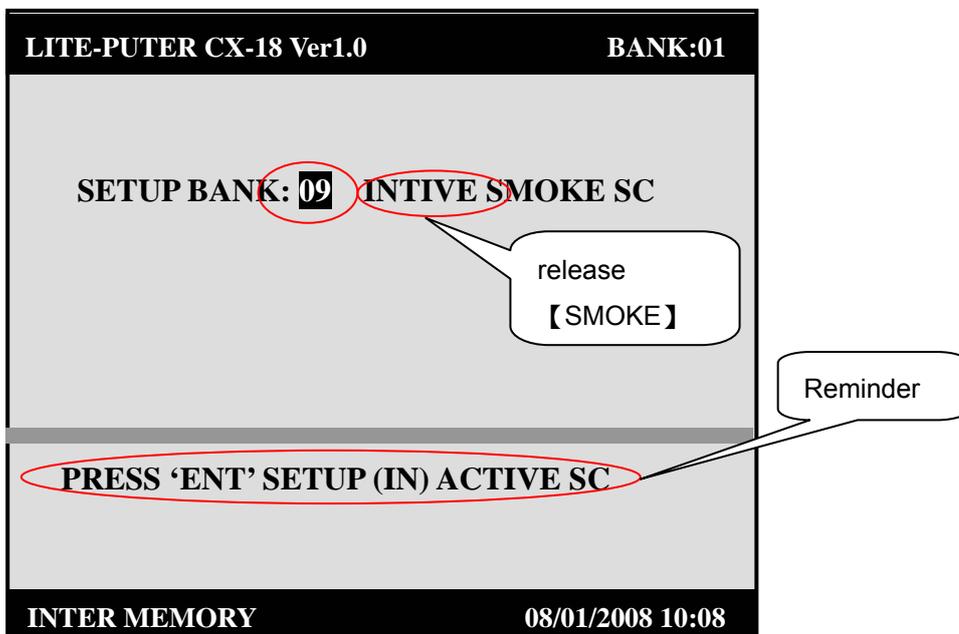
STEP-3 Press BANK NO.(1~18) to select BANK NO.(for example, set BANK as 9) and LCD displays as below,



STEP-4 Move VR1—VR18 to edit the channel and its dimming value. (LED on the correspond button will turn on)

Attention: SMOKE’s setting is no need to use P1—P18 FIXTURE NO.

STEP-5 After editing, press **【ENTER】** to save it (save as ACTIVE SMOKE SC) and automatically enter INTIVE STROBE SC setting, LCD displays as below,



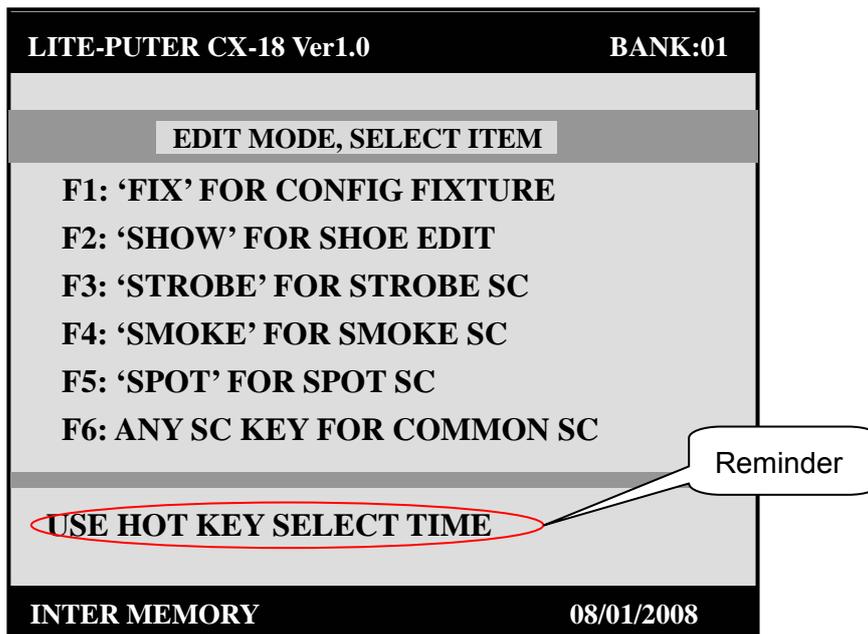
STEP-6 Repeat **STEP-3** **STEP-4** and **STEP-5** (Save as INTIVE SMOKE SC)

3-7-1 SMOKE Recall

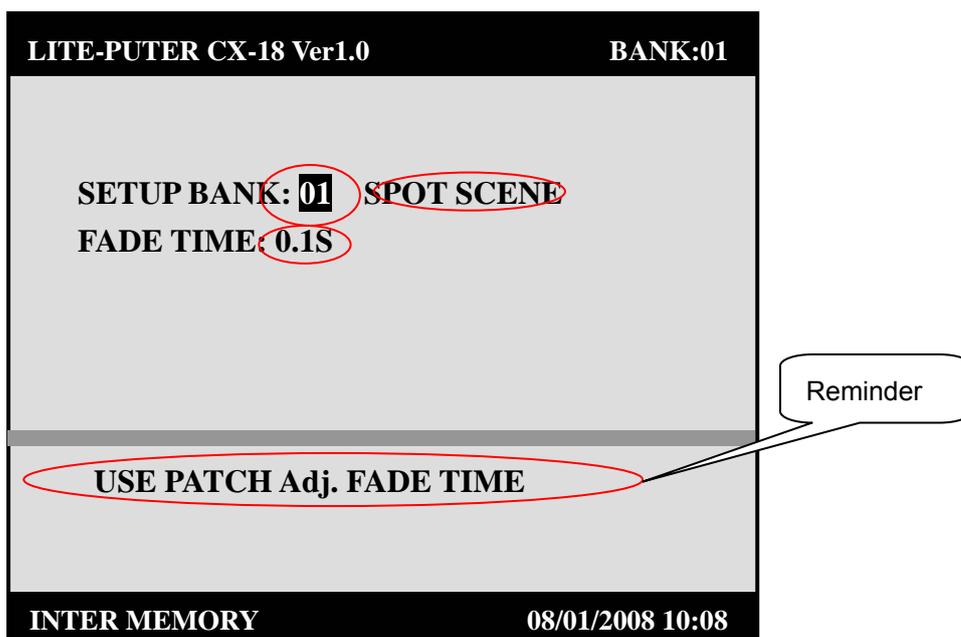
After **SMOKE** setting, press **【ESC】** for 2 times to go back to the home page. Select **BANK NO.** and press **【SMOKE】** to recall **ACTIVE SMOKE SC**, then release **【SMOKE】** to recall **INACTIVE SMOKE SC**.

3-8 SPOT Recall/Setting

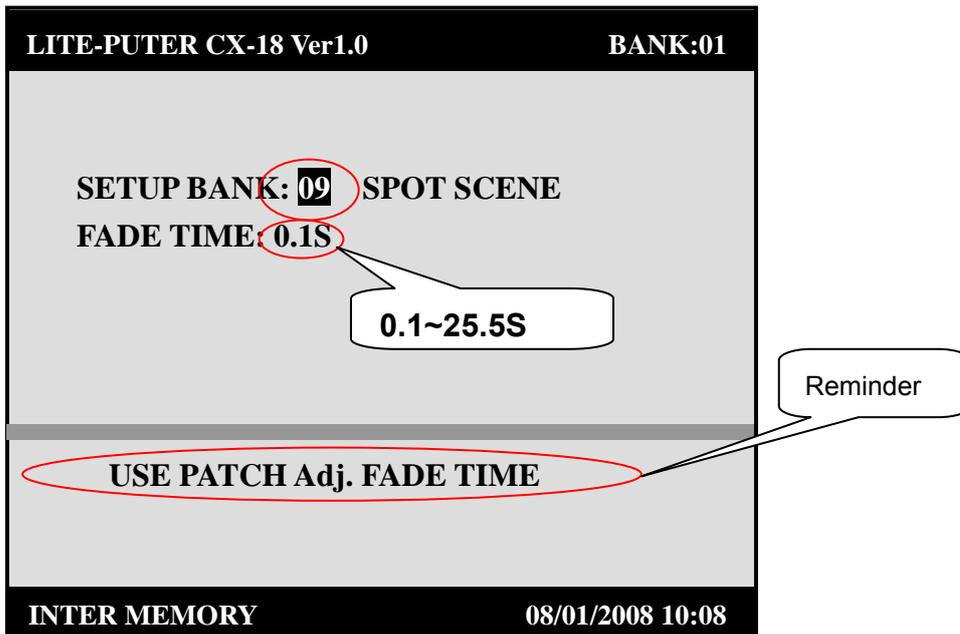
STEP-1 On the home page, press **【EDIT】** for 3 seconds and LCD displays the function menu,



STEP-2 Press **【SPOT】** and LCD displays as below,

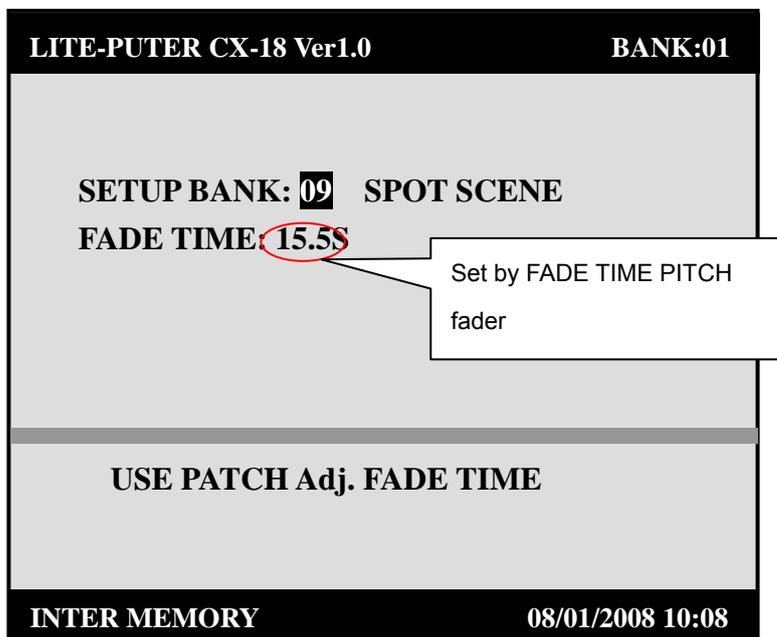


STEP-3 Press BANK NO.(1~18) to select BANK (for example, set BANK as 09) and LCD displays as below,



STEP-4 Press **【P1—P18 FIXTURE NO.】** to select one or more moving lights(LED on the correspond button will turn on)

STEP-5 Move **【FADE TIME PITCH】** FADER to set FADE TIME as 15.5S and LCD displays as below,



STEP-6 Move VR1—VR18 edit the channel and its dimming value (LED on correspond button will turn on).

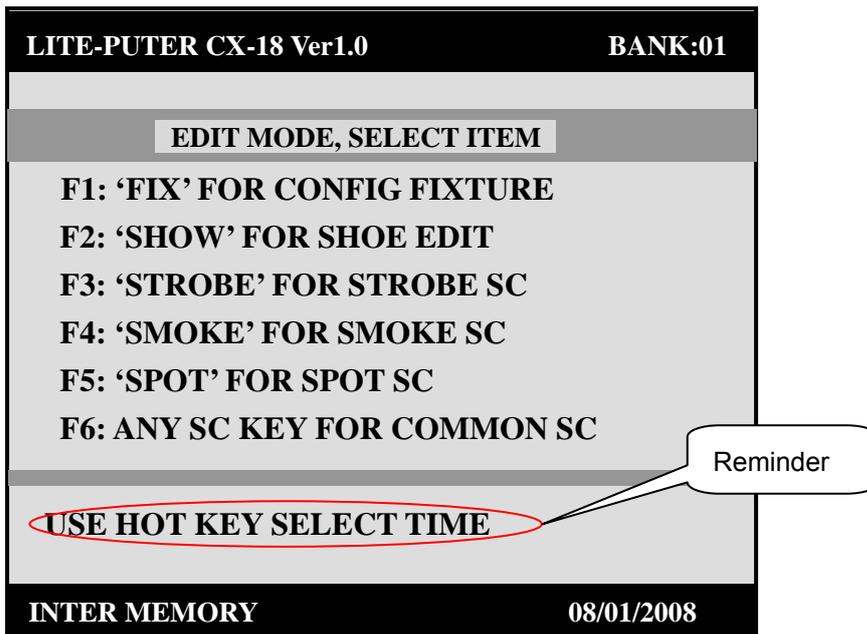
STEP-7 After setting, press **【ENTER】** to save it.

3-8-1 SPOT Recall

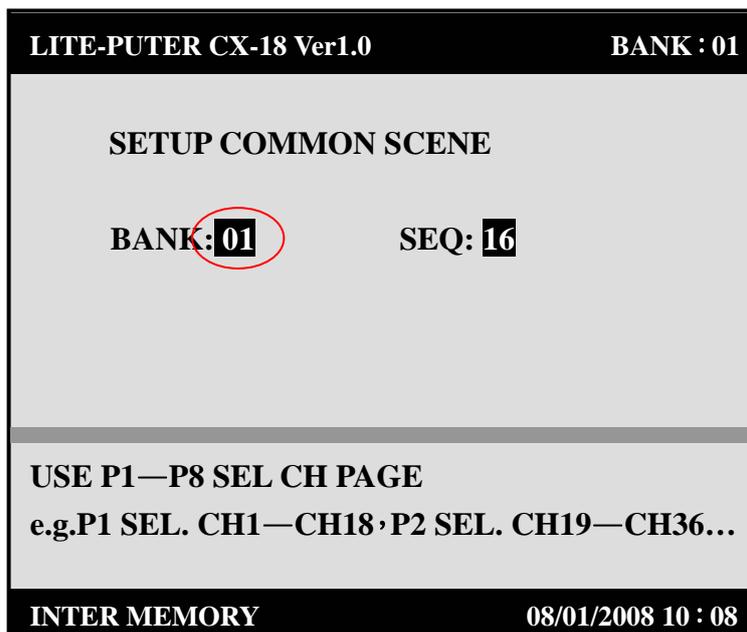
After SPOT setting, press **【ESC】** for 2 seconds to enter the home page.
 Select BANK NO. and press **【SPOT】** to recall it.

3-9 SEQ setting

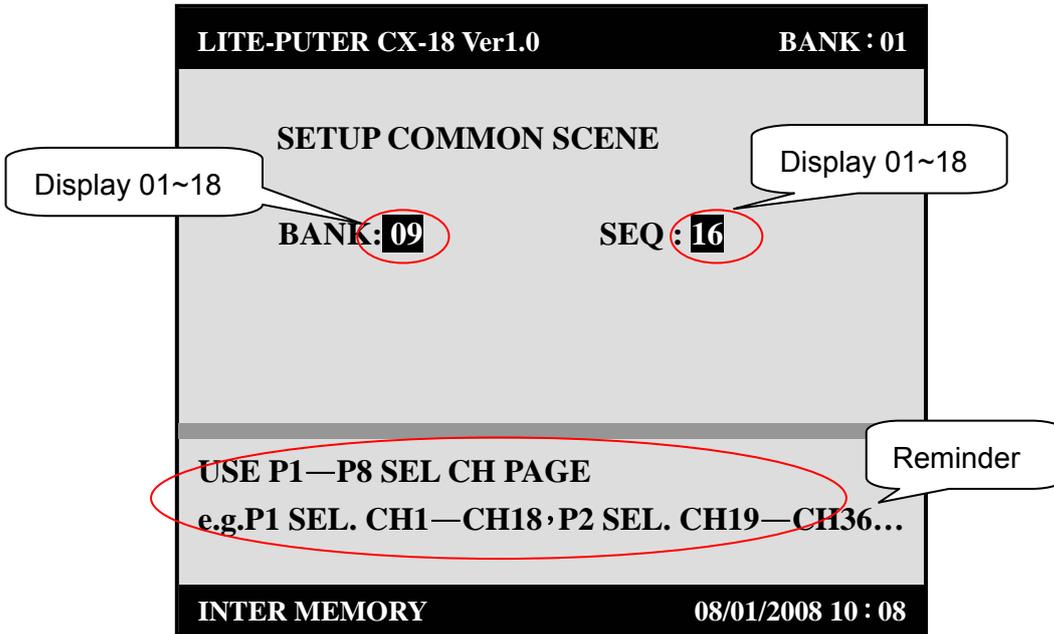
STEP-1 On the home page, press **【EDIT】** for 3 seconds and LCD displays the function menu as below,



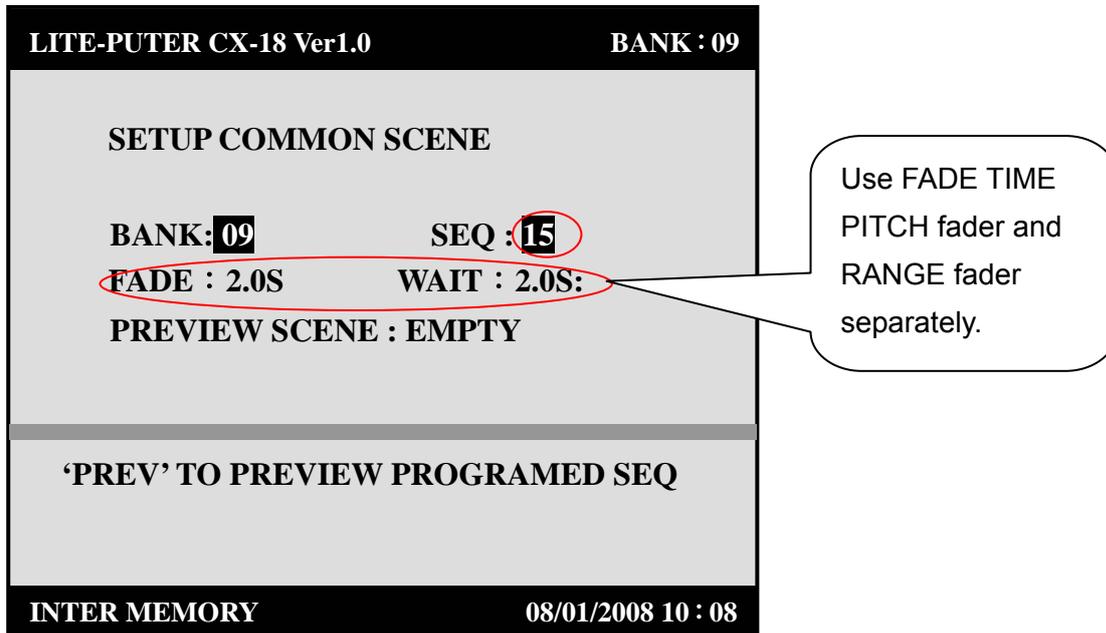
STEP-2 Press **【SC NO.】** (1~18)(for example select 16) and LCD display as below,



STEP-3 Press BANK NO.(1~18)select the BANK need to edit (for example, set BANK as 09) and LCD displays as below,



STEP-4 Press **【ENTER】** to edit and LCD displays as below,



STEP-5 Press **【P1—P18 FIXTURE NO.】**to select the channel page need to edit. (The LED on EIXTURE NO. button will turn on when the correspond page's selected)

Introduction: P1 page : channel 361---378 P2 page : channel 379---396
 P3 page : channel 397---414 P4 page : channel 415---432
 P5 page : channel 433---450 P6 page : channel 451---468
 P7 page : channel 469---485 P8 page : channel 486---503

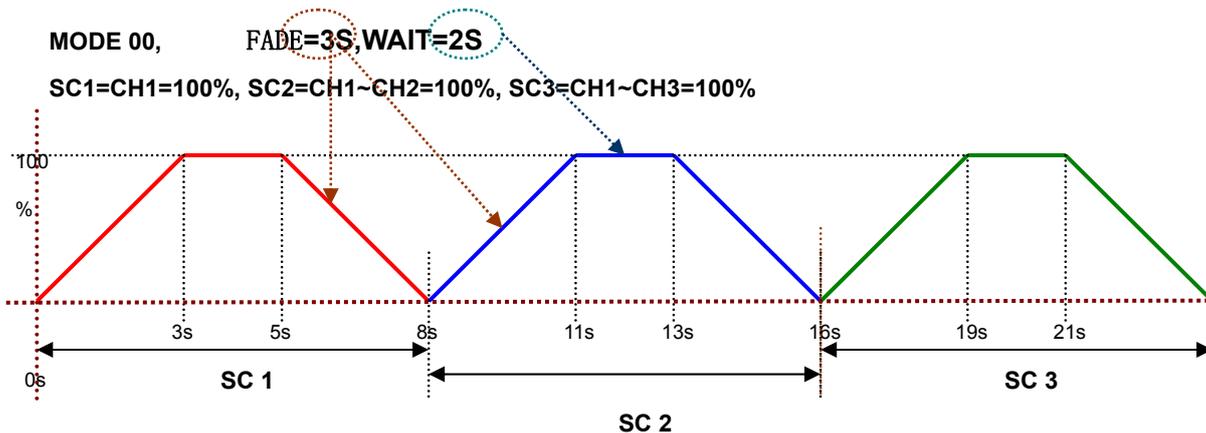
If select P1-P8 all at one time, use VR1 to control CH361, CH379, CH397, CH415, CH433, CH451, CH469, CH486 at the same time.

STEP-6 Add the SEQ SCENE, move VR1- VR18 to select channel and adjust dimming value.

STEP-7 Press **【ADD】** to save the setting and LCD displays as below,

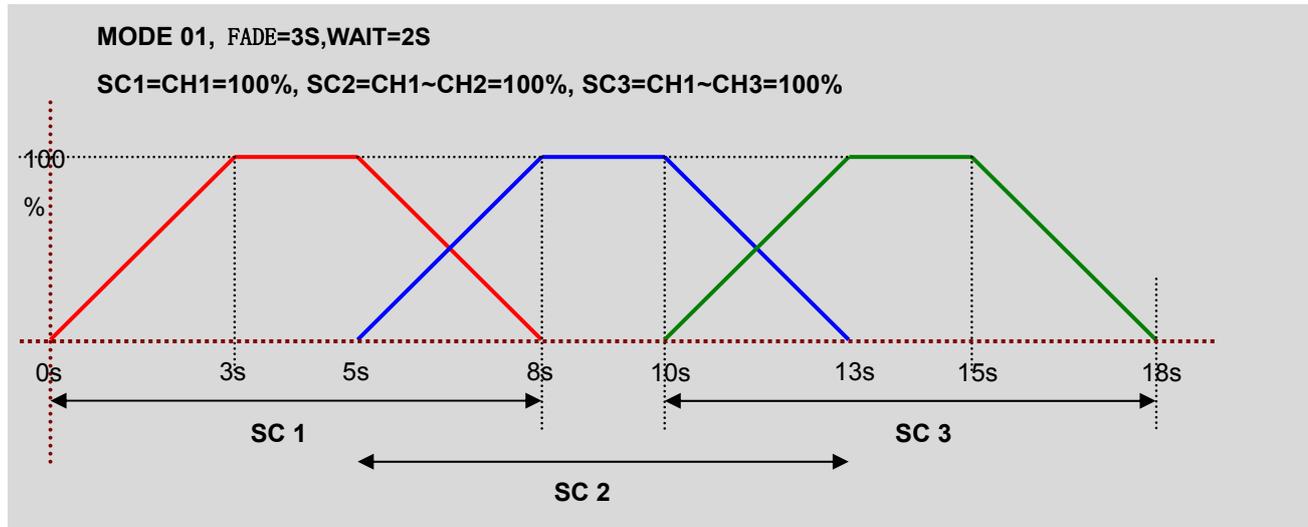
Attention: SEQ SC's Add, Delete and Insert operation, please refers to that of SHOW. After first SEQ SC setting, move VR1- VR 18 to select channel and adjust dimming value, then press **【ADD】** to save the setting the next SEQ SC.

STEP-8 Press **【MACRO】** to shift mode between 00 and 01.



MODE 01, FADE=3S, WAIT=2S

SC1=CH1=100%, SC2=CH1~CH2=100%, SC3=CH1~CH3=100%



STEP-9 Press **【ENTER】** to exit.

3-9-1 SEQ Recall

After SEQ setting, press **【ESC】** for 2 times go back to home page.

Select BANK NO. and press **【COMMON SC NO.】** to recall it.

3-10 Main fixture control

On any condition, CX-18 can independently control the main fixture. (except on SPOT, FUNC and EDIT menu condition)

STEP-1 Press **【FIXTURE】** .

STEP-2 Press **【P1—P18 FIXTURE NO.】** to select any one or more moving lights.
(LED on correspond P1—P18 will turn on)

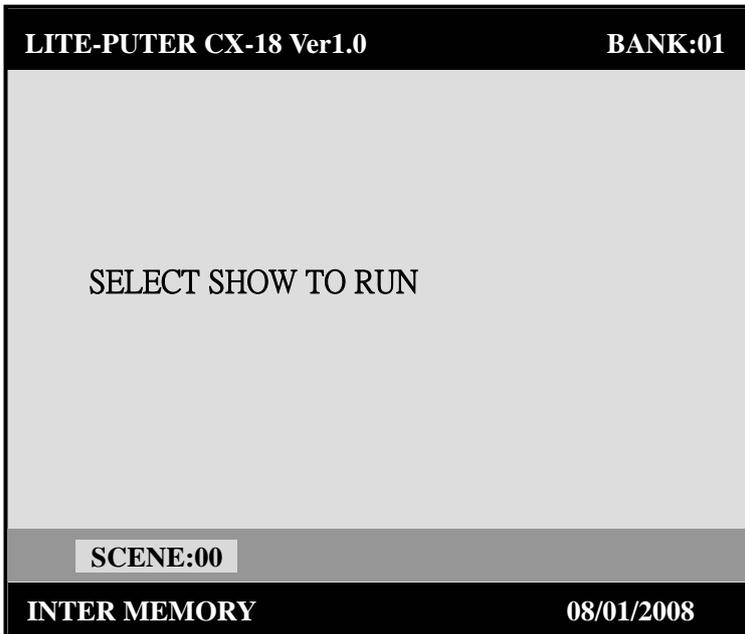
STEP-3 Move VR1—VR18 and joystick to control main fixture.

Attention:

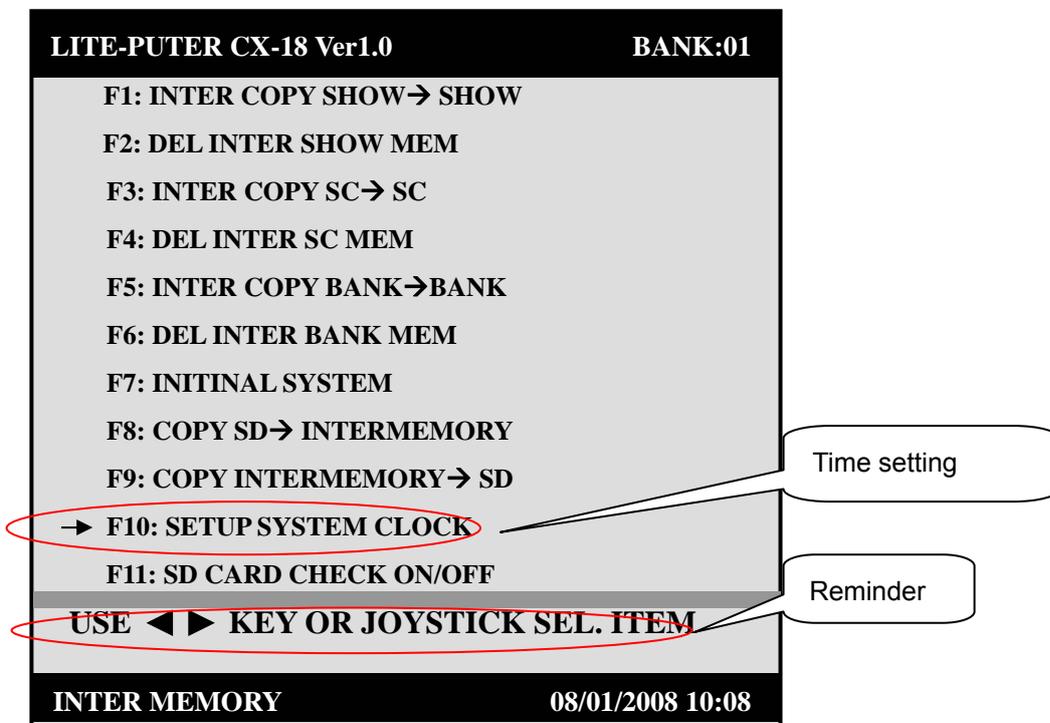
1. When using FADER and joystick to control main fixture, press **【FINE】**
(LED on the button will turn on) then use FADER and joystick to fine adjust main fixture.
2. On any condition, press **【FINE】** for 1 second and the selected fixture will go back to the central place

3-11 System Time Setting

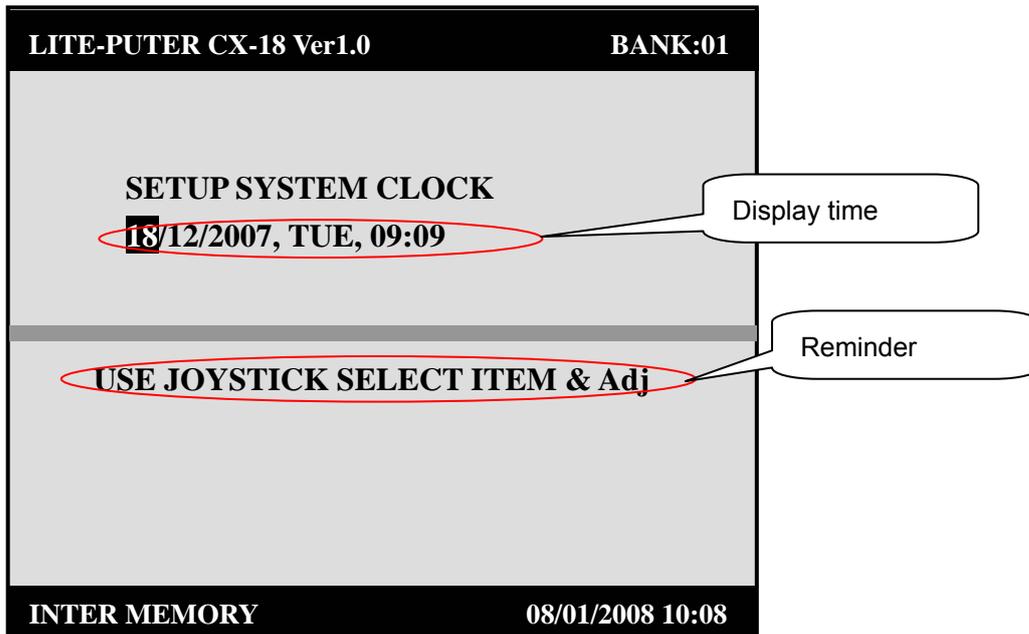
STEP-1 On the home page and LCD displays as below,



STEP-2 Press **【FUNC】** to enter function menu and LCD displays as below,



STEP-3 Move arrowhead to F10 and press **【ENTER】** to enter time setting, LCD displays as below,



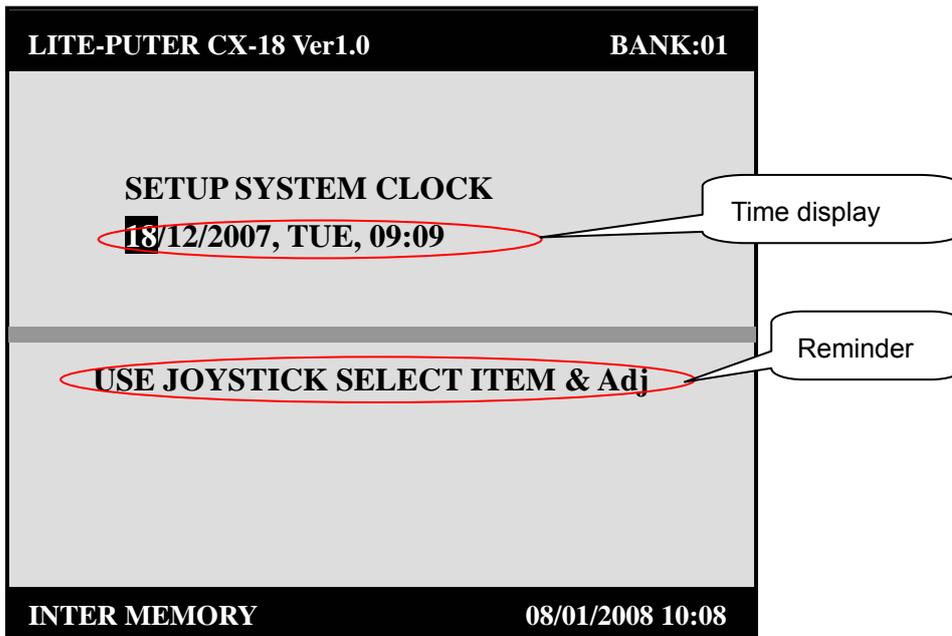
STEP-4 Press **【▶】****【◀】** (or move joystick right or left) to shift day, month, year, week, hour and minute.

STEP-5 After selection, move joystick up and down to change those.

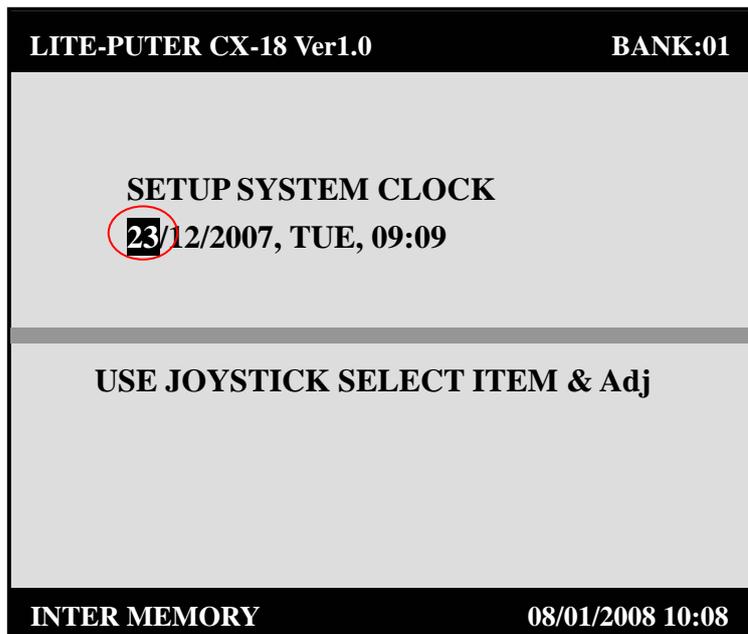
STEP-6 After setting, press **【ENTER】** to save it and go back to the function menu.

For example: change the current 18/12/2007, TUE, 09:09 to 23/01/2008, WED, 12:59.

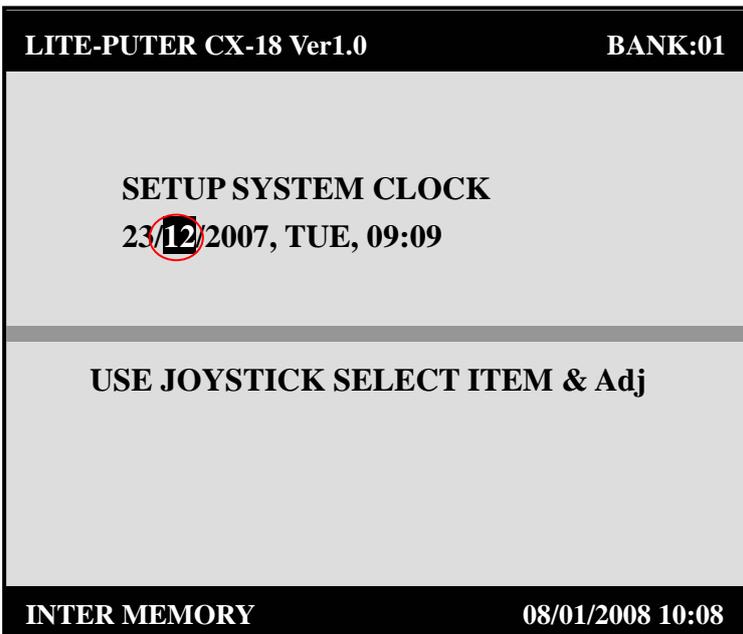
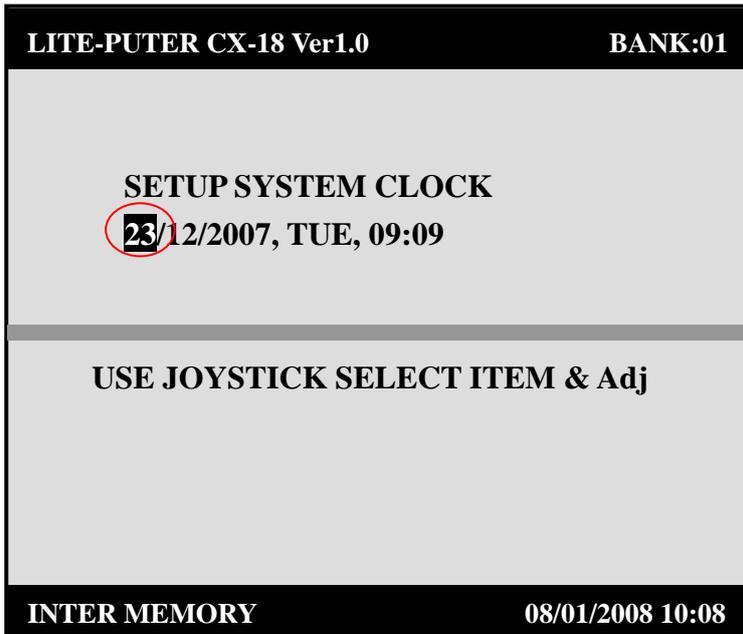
1. Press **【FUNC】** to enter the function menu and LCD display as that of 2-9 **STEP-2**
2. Move arrowhead to F1 and press **【ENTER】** to enter time setting menu and LCD displays as below,



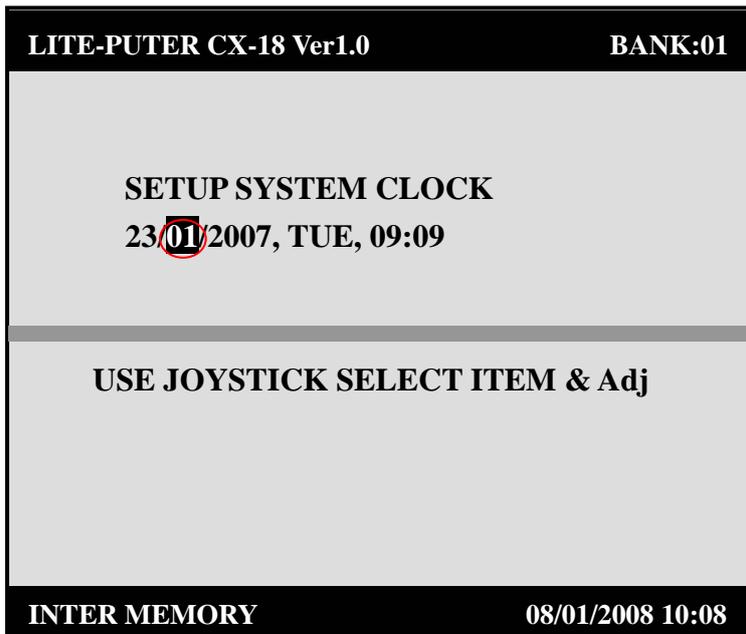
3. (Move joystick up and down to change time) move joystick up to change the day as 23, and LCD display as below,



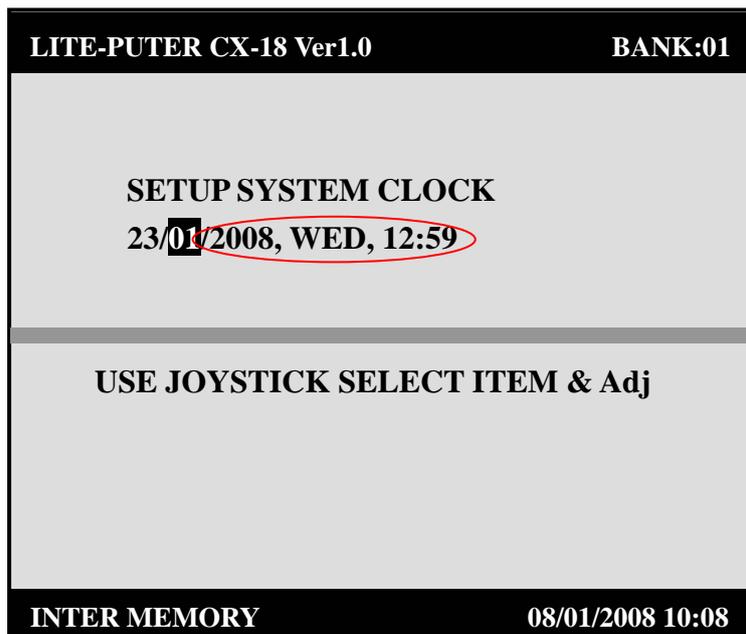
4. Press [▶] once shift to month and LCD display as below,



5. Move joystick up and down to change the value. For example, change month as 1 and LCD display as below,



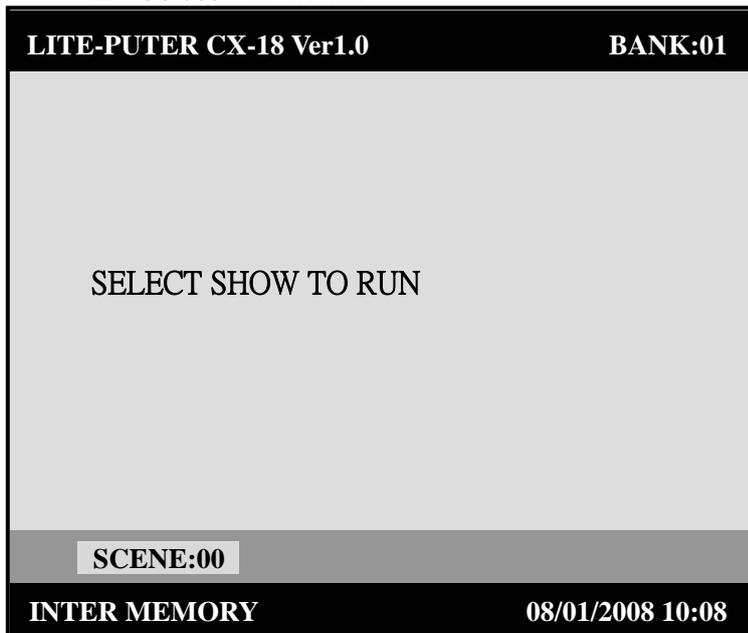
Please refer to the step of day, month setting to set year, week, hour, minute. After those settings LCD displays as below,



6. After editing, press **【ENTER】** to save it and exit time setting , go back to the function menu.

3-12 System Initialization

STEP-1 On the home page and LCD display as below,



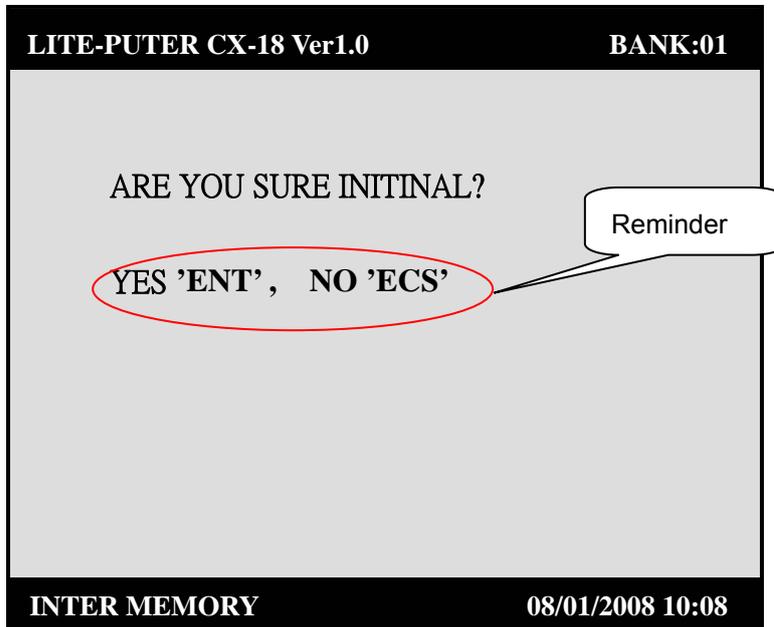
STEP-2 Press **【FUNC】** to enter the function menu and LCD display as below,



STEP-3 Press **【▶】** (move joystick down) to move arrowhead to F7 and LCD displays as below,



STEP-4 Press **【ENTER】** and LCD displays as below,



STEP-5 Press **【ENTER】** to restore factory setting and go back to the function menu.
 Press **【ECS】** to exit initialization and go back to the function menu.

Chapter 4 Other Function

4-1 Output channel delete

When FIX, SHOW, STROBE, SMOKE, SPOT and SC are outputting, press **【DEL】** to stop all output.

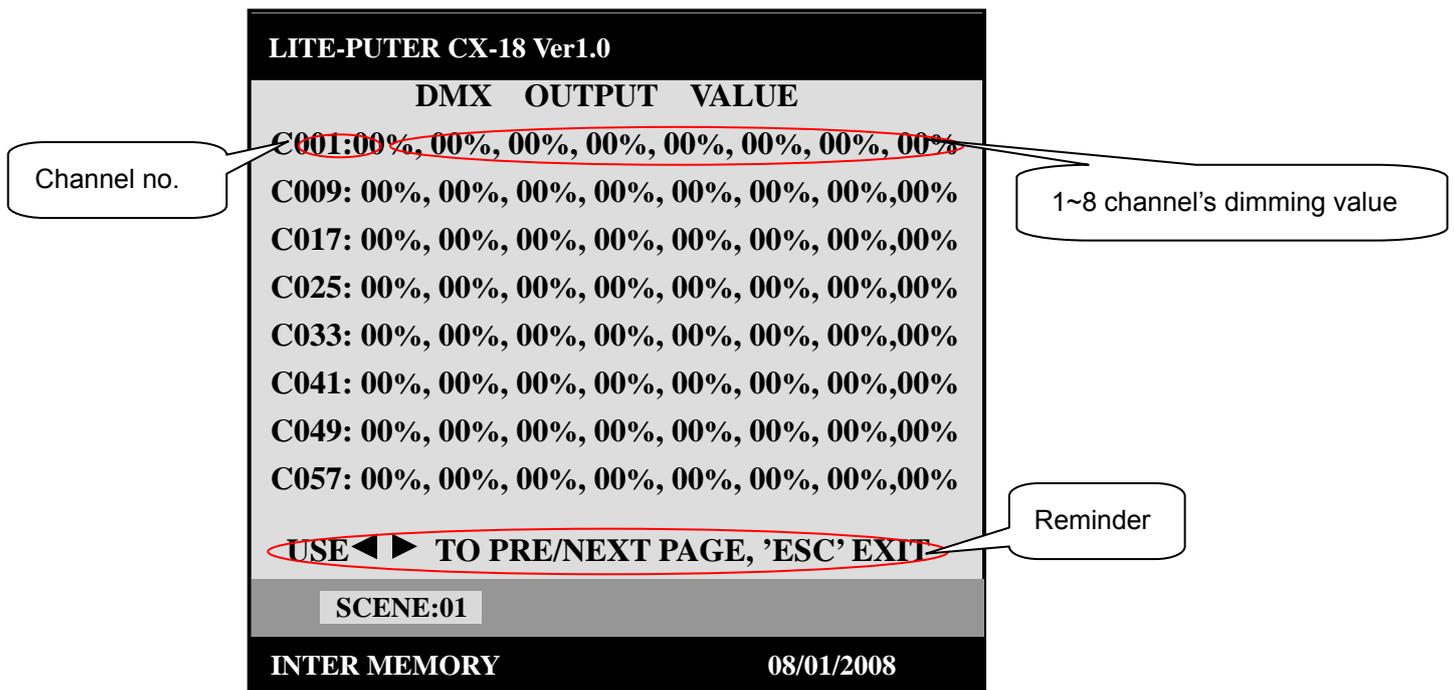
4-2 Channel dimming value check

CX-18 can check 512 channels' dimming value.

STEP-1 On the home page, LCD display as below,



STEP-2 Press **【PERV】** to enter dimming value display page and LCD displays as below,



STEP-3 Press **【▶】【◀】** to turn over page (8 pages in total)

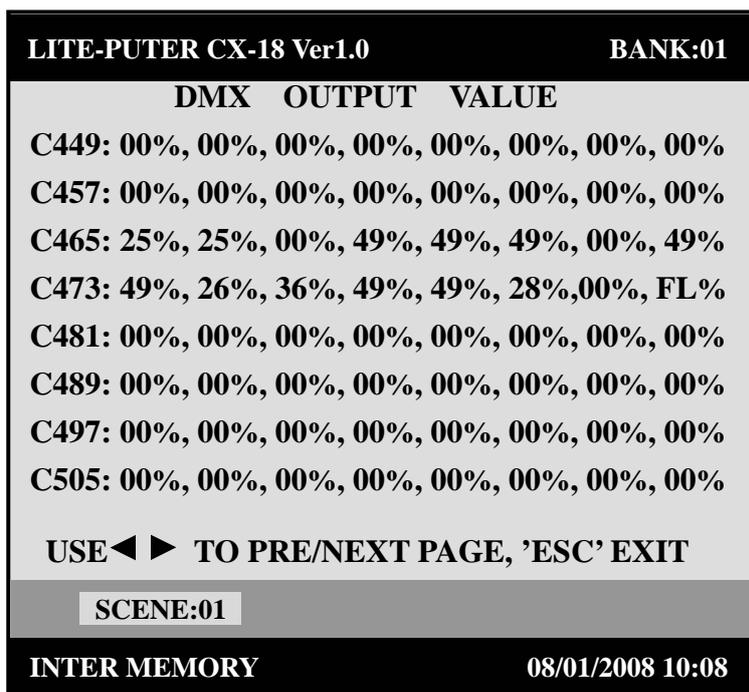
Introduction:

- Page 1----- display channel C001~C064
- Page 2-----display channel C065~C128
- Page 3-----display channel C129~C192
- Page 4-----display channel C193~C256
- Page 5-----display channel C257~C320
- Page 6-----display channel C321~C384
- Page 7-----display channel C385~C448
- Page 8-----display channel C448~C512

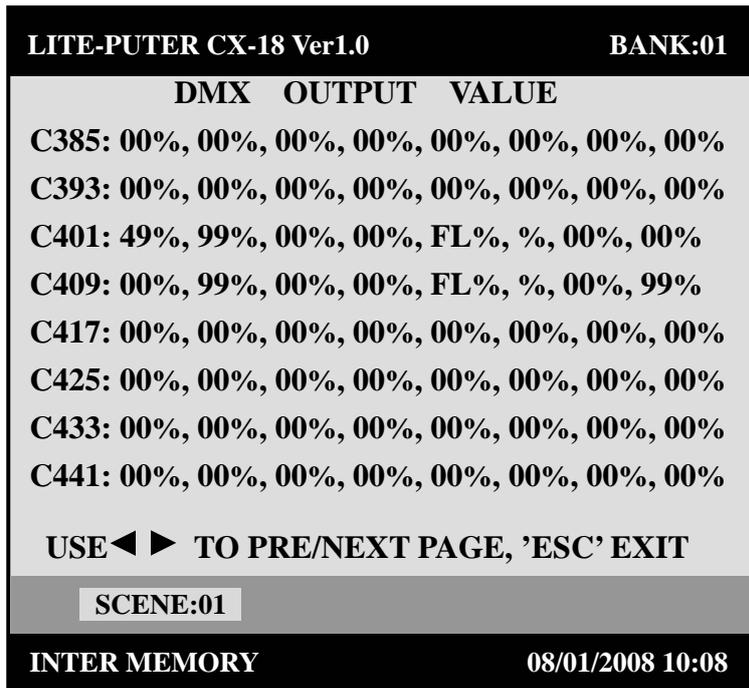
STEP-4 After check, press **【ESC】** go back to the home page.

For example: check channel C465~C512's dimming value and C385~C448's dimming value.

1. On the home page, press**【PERV】**to enter dimming value display page and press**【▶】**7 times to check certain channels, LCD displays as below,



2. Press **【◀】** once and LCD displays as below,



Above two graphs show the channel from C385~C448 and C465~C512.

4-3 SD CARD check

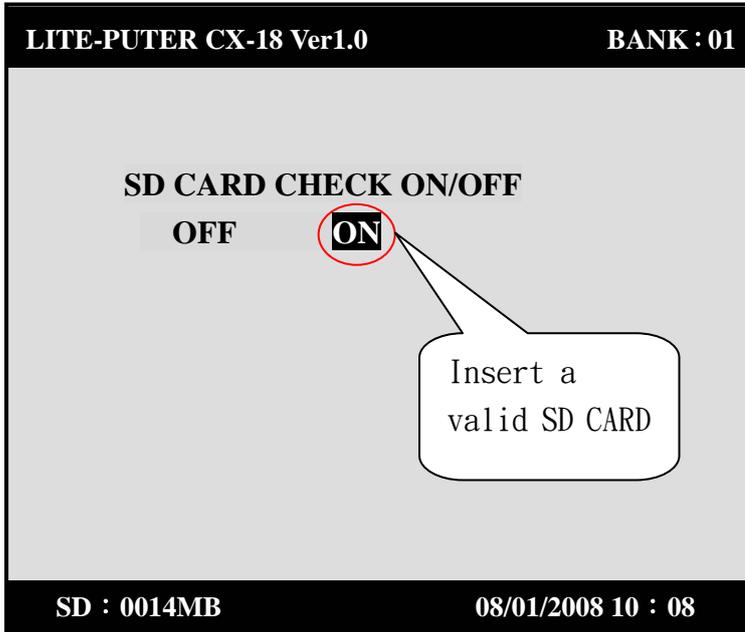
This device has INTER MEMORY for date save and SD CARD for data copy.

STEP-1 On the function menu, press **【FUNC】** and LCD displays as below,



STEP-2 press **【◀】 【▶】** (move joystick up and down) to move arrowhead to F11.

STEP-3 Press **【ENTER】** and LCD displays as below,



ON ---There is a SD CARD insert and it's valid.

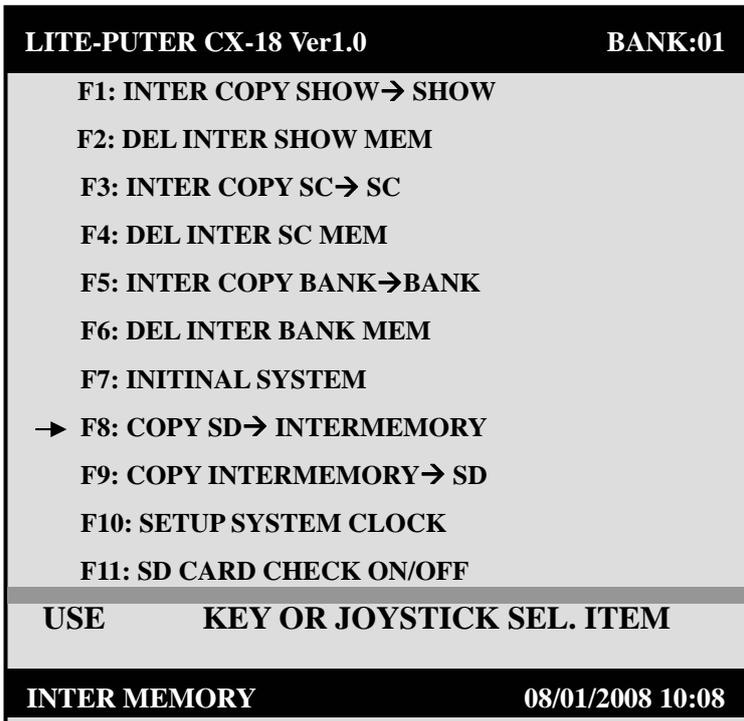
OFF ---There isn't a SD CARD insert, so it's invalid

4-4 File copy

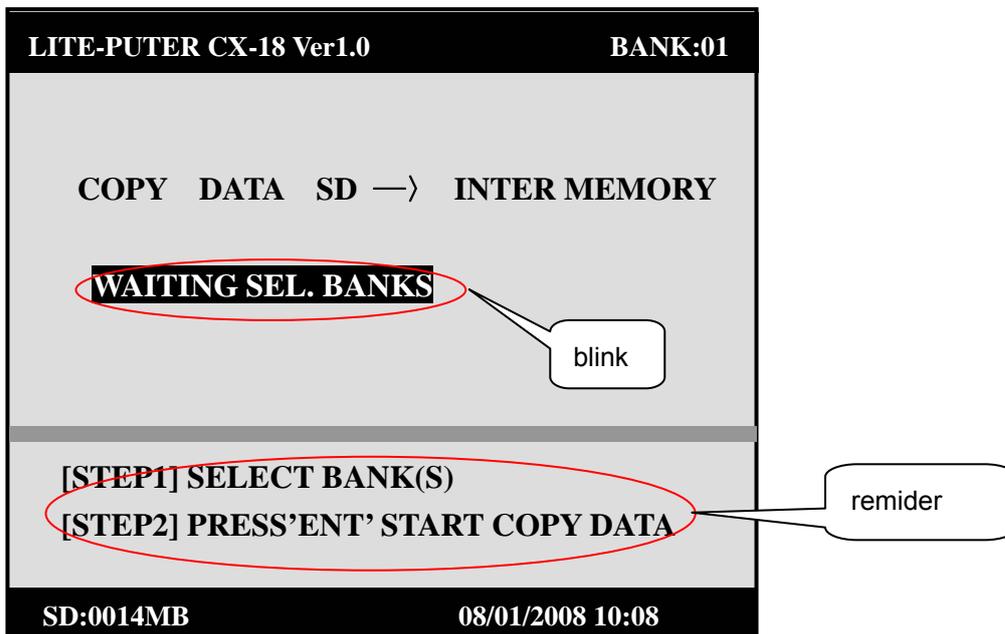
- CX-18 has 4 file copy methods:
- 1.SD CARD——> INTER MEMORY
 2. INTER MEMORY——> SD CARD
 - 3.SC——> SC
 - 4.BANK——> BANK
 - 5.SHOW——> SHOW

1.SD CARD——> INTER MEMORY

STEP-1 On the function menu, Press **【◀】 【▶】** (move joystick up and down) to move arrowhead to F8 and LCD displays as below,



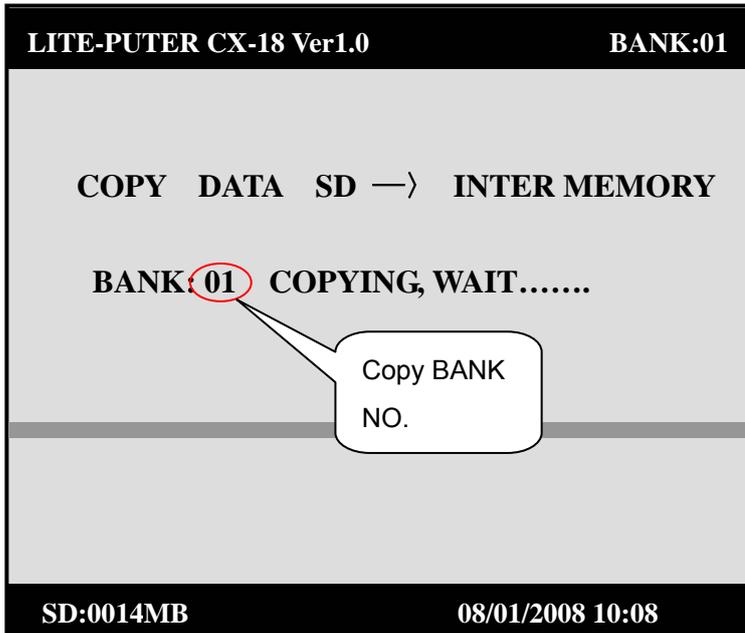
STEP-2 Press **【ENTER】** and LCD displays as below,



STEP-3 Press BANK NO. (1~18) to select BANK need to copy.

Attention: at this time, user can select one or more BANK (LED on the selected BANK will turn on) .

STEP-4 Press **【ENTER】** and LCD displays as below,



After copying, go back to the function menu.

2. INTER MEMORY → SD CARD

STEP-1 On the function menu, press **【◀】** **【▶】** (move joystick up and down) to move arrowhead to F9 and LCD displays as below,



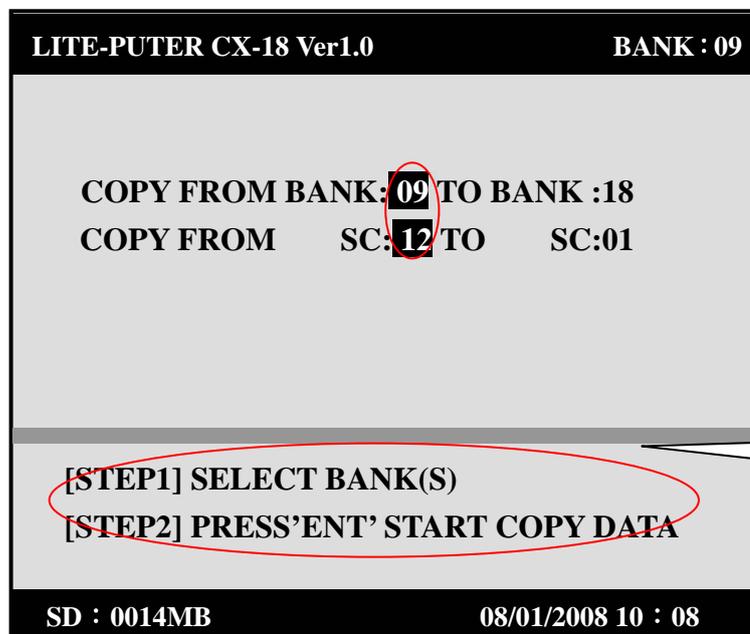
STEP-2 The following steps are the same as **STEP-2** ~ **STEP-4** .

3. SC→SC

STEP-1 On the function menu, press **【◀】 【▶】** (move joystick up and down) to move arrowhead to F3 and LCD displays as below,

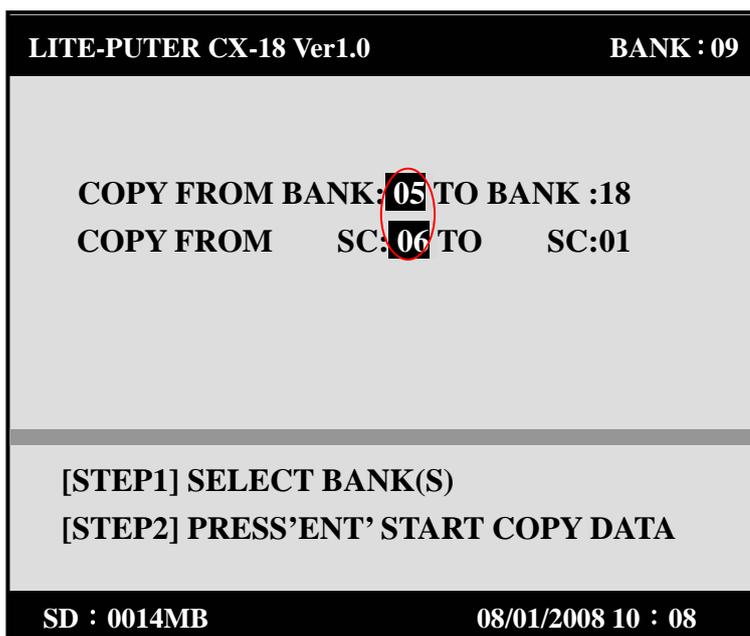


STEP-2 Press **【ENTER】** and LCD displays as below,

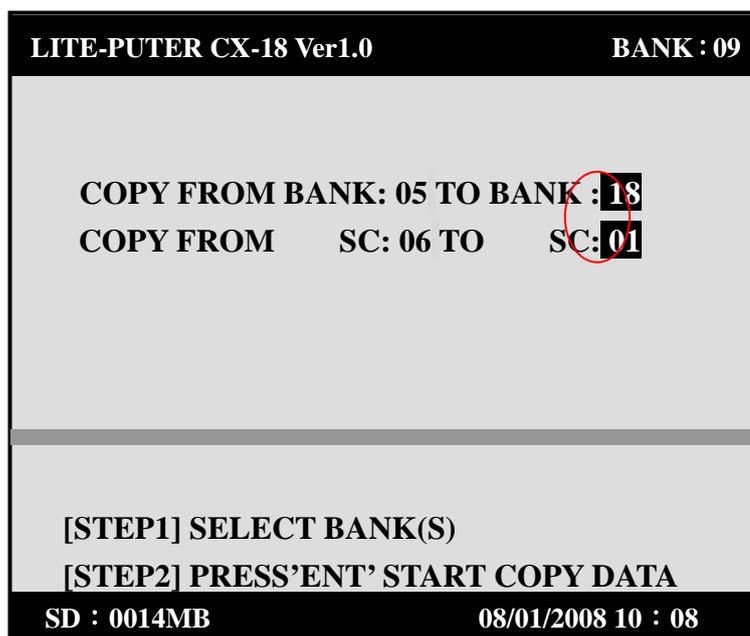


Notice : BANK 09/SC 12--- BANK 18/SC 01is the data copy record in the last time.
 If the user don't copy any data before, it will display: BANK 00/SC 00--- BANK 00/SC 00
 For example copy BANK 05/SC 06 to BANK 11/SC16

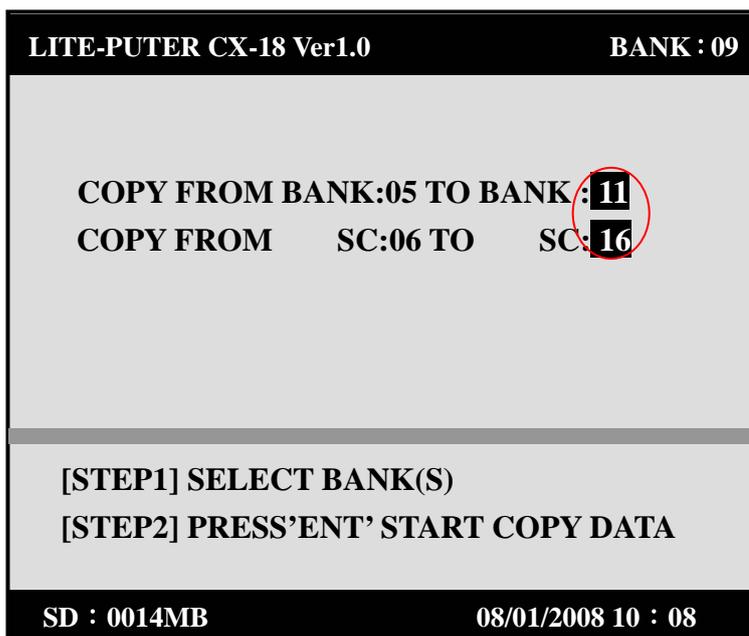
STEP-3 Press BANK NO. 05 and then press SC. 06 and LCD displays as below,



STEP-4 Press **【◀】** or **【▶】** shift to 18.01 and LCD display as below,



STEP-5 Press BANK NO.11 and then press SC.16 and LCD displays as below,



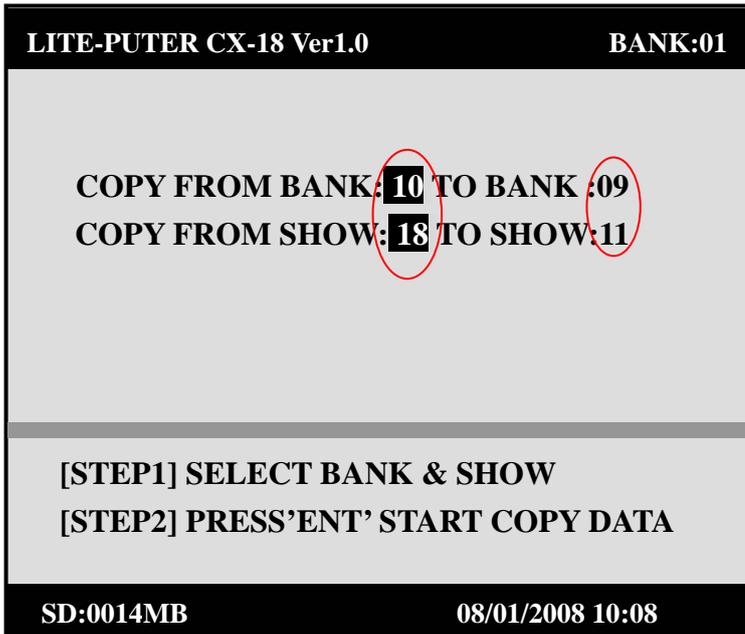
STEP-6 Press **【ENTER】** to finish the SC→SC data copy.

3. SHOW—> SHOW

STEP-1 On the function menu, press **【▶】****【▲】** (move joystick up and down) to move arrowhead to F1 and LCD displays as below,

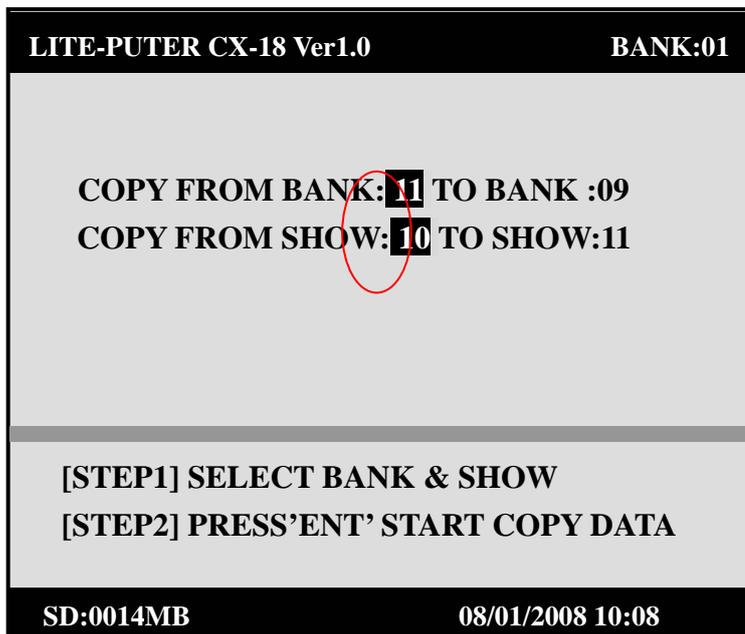


STEP-2 Press **【ENTER】** and LCD displays as below,

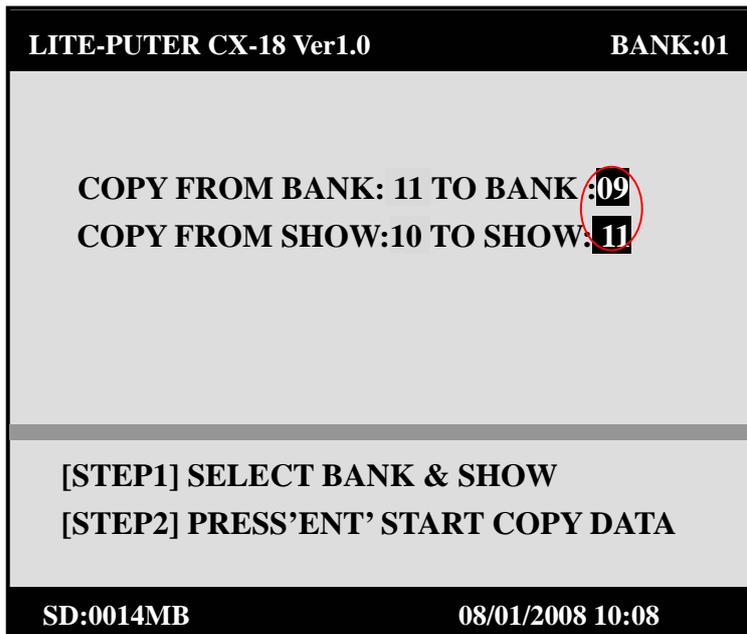


For example: copy SHOW 10 on BANK 11 to SHOW 18 on BANK 2.

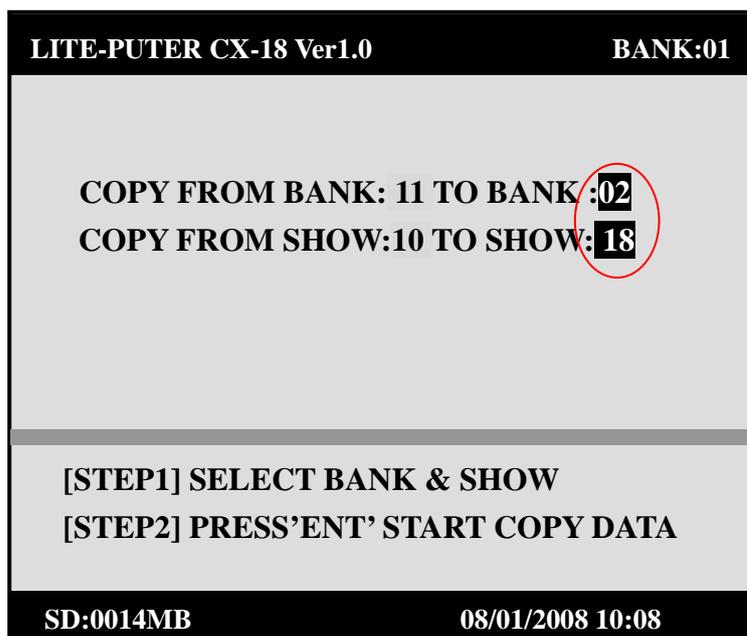
STEP-3 Press BANK NO.11 and then press SHOW NO.10 and LCD displays as below,



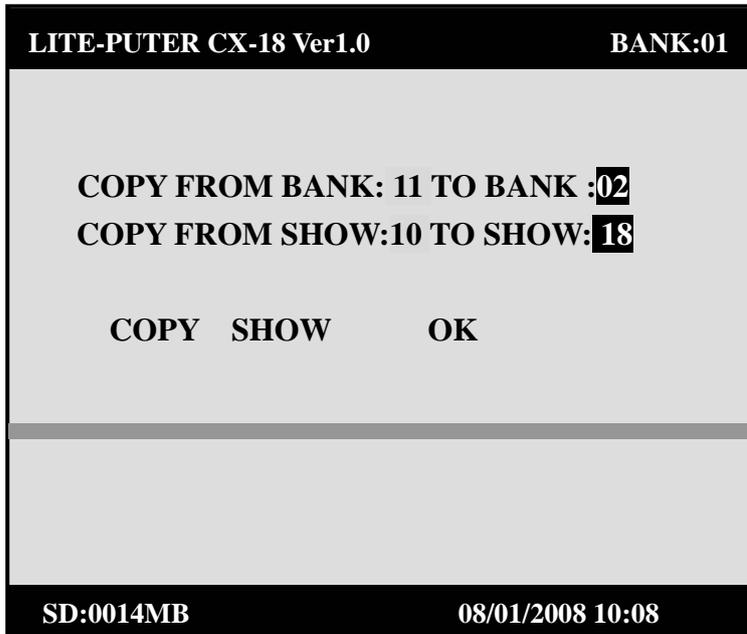
STEP-4 Press **【▶】 【◀】** shift to 09.11 and LCD displays as below,



STEP-5 Press BANK NO.2 and then SHOW NO.18 and LCD displays as below,

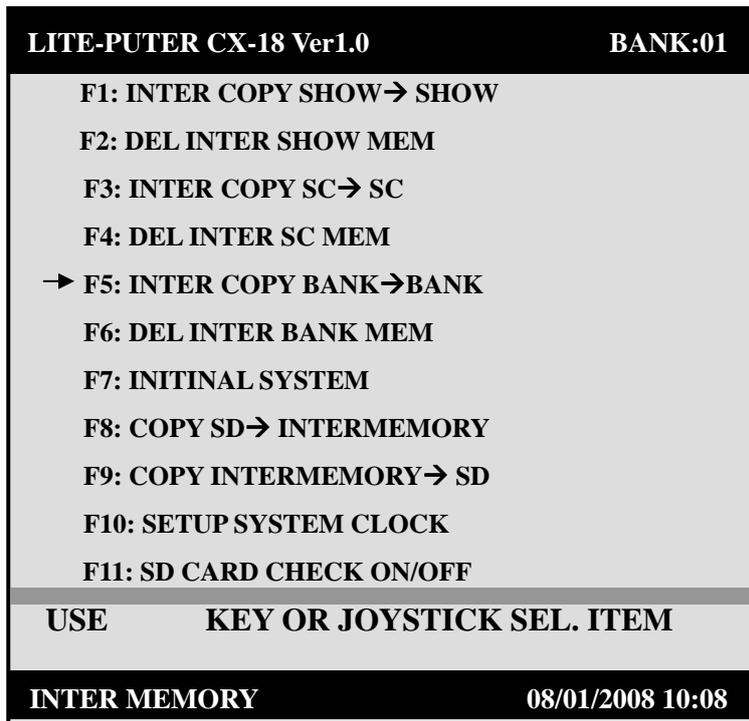


STEP-6 Press **【ENTER】** to copy SHOW—> SHOW and LCD displays as below,

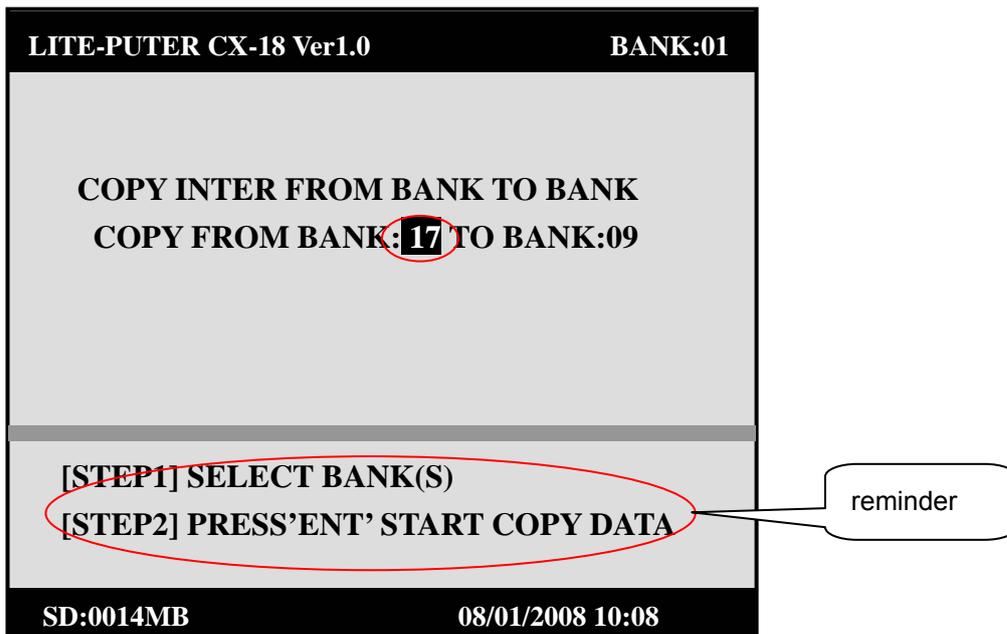


4. BANK—> BANK

STEP-1 On function menu, press **【▶】 【◀】** (move joystick up and down) to move arrowhead to F5 and LCD displays as below,



STEP-2 Press **【ENTER】** and LCD display as below,

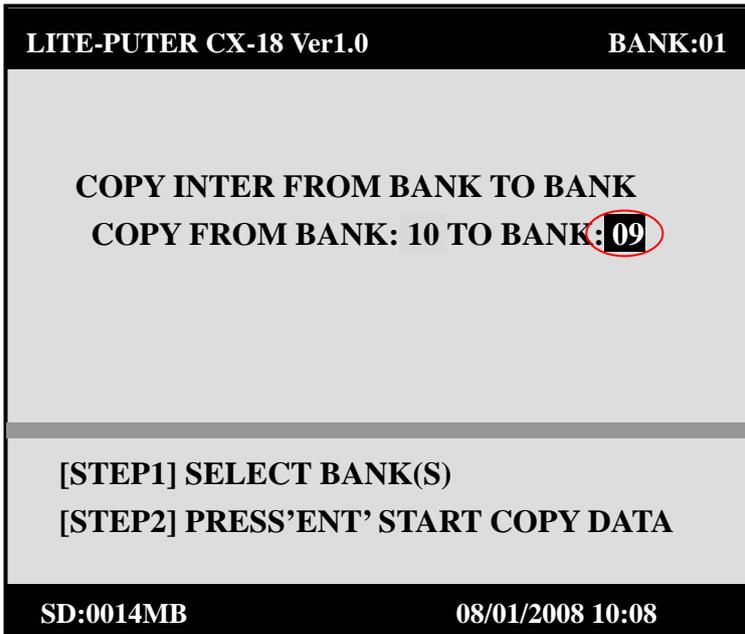


For example, copy BANK 10 to BANK 1.

STEP-3 Press BANK NO.10 and LCD displays as below,



STEP-4 Press **▶** **◀** shift to 09 and LCD display as below,



STEP-5 Press BANK NO.1 and LCD displays as below,



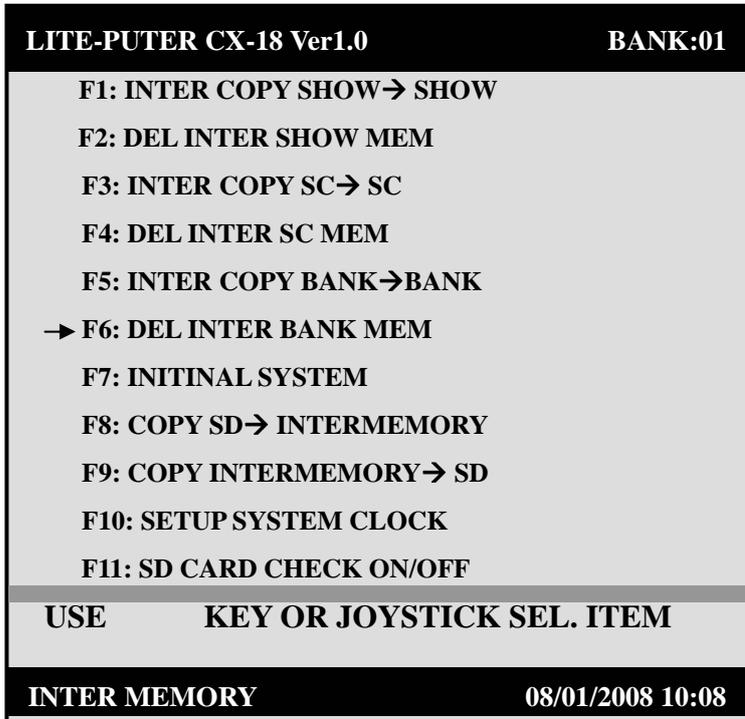
STEP-6 Press **【ENTER】** copy BANK—> BANK.

4-5 File delete

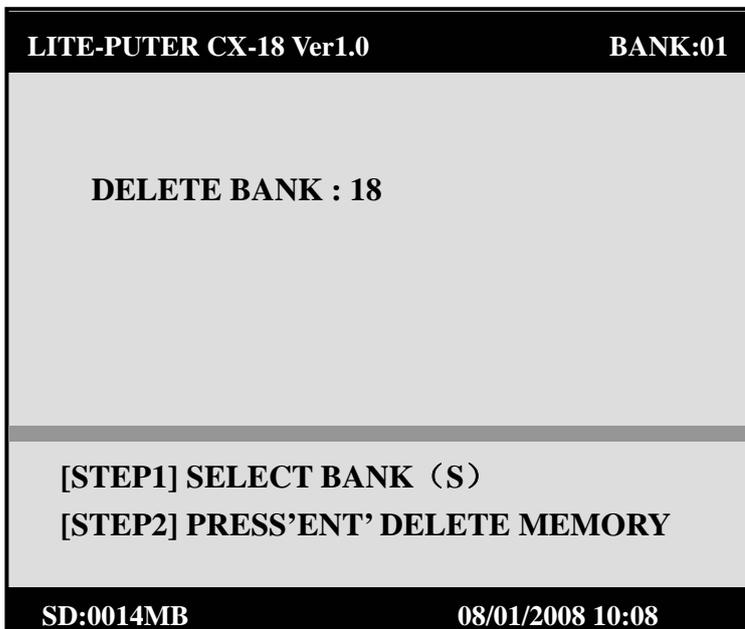
- CX-18 has file delete function:**
1. BANK file delete
 2. SHOW file delete
 3. SC file delete

1. BANK file delete

STEP-1 On the function menu, press **▶** **◀** (move joystick up and down) to move arrowhead to F6 and LCD displays as below,

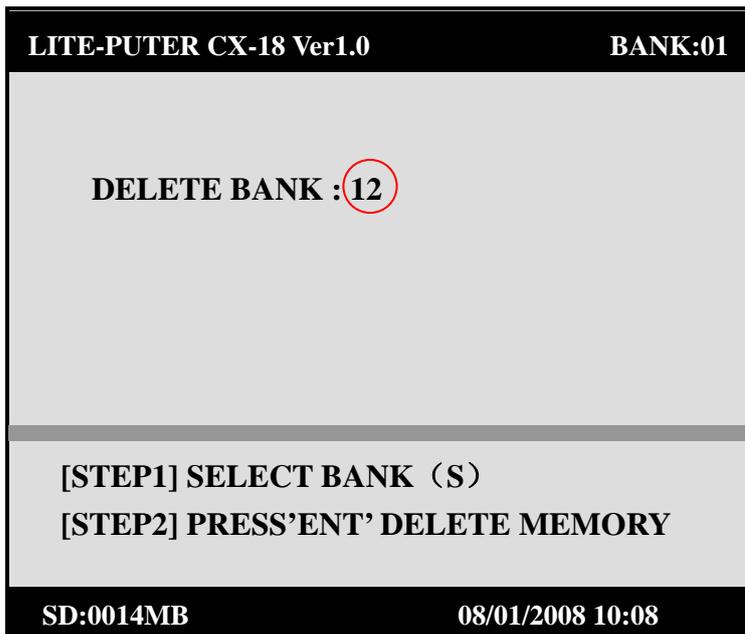


STEP-2 Press **ENTER** and LCD displays as below,

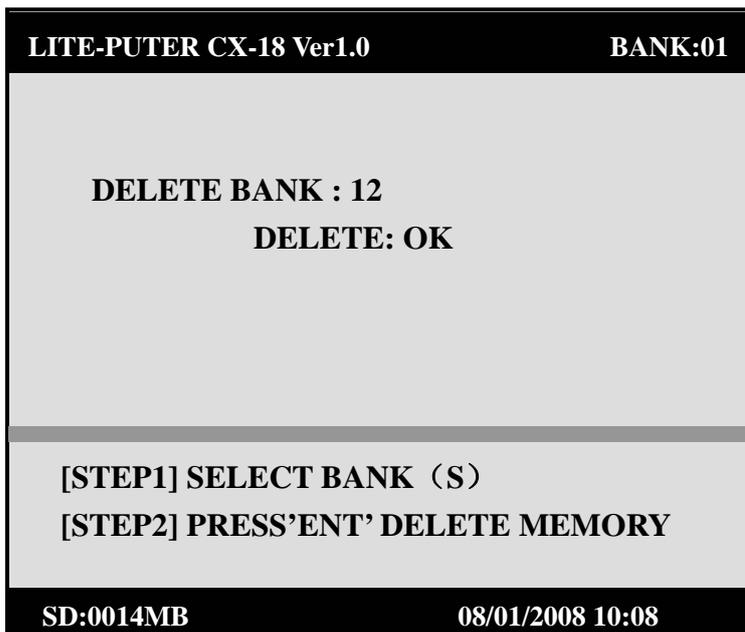


STEP-3 Press BANK NO.1-18 to select the BANK need to delete

For example, delete BANK 12. Press BANK NO.12 and LCD displays as below,

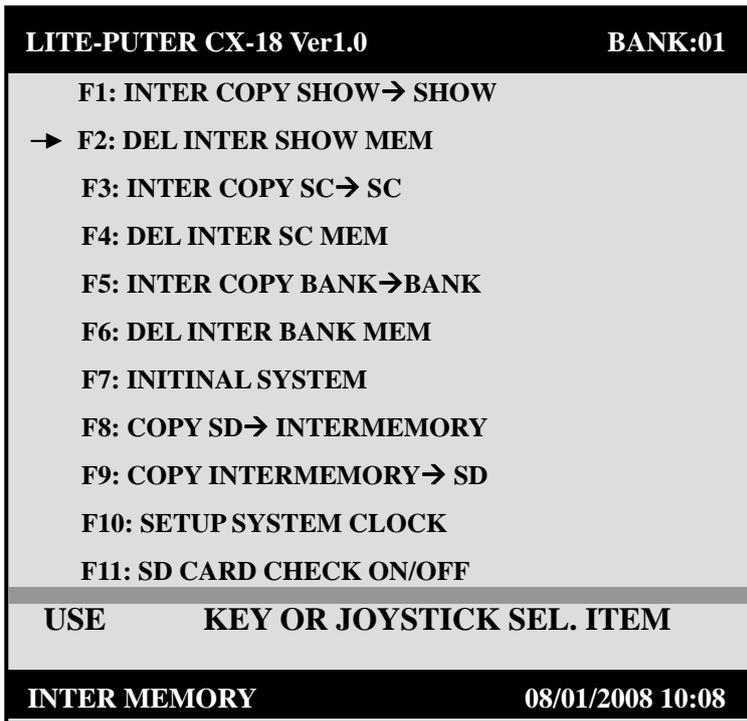


STEP-4 Press **【ENTER】** is ok and LCD displays as below,

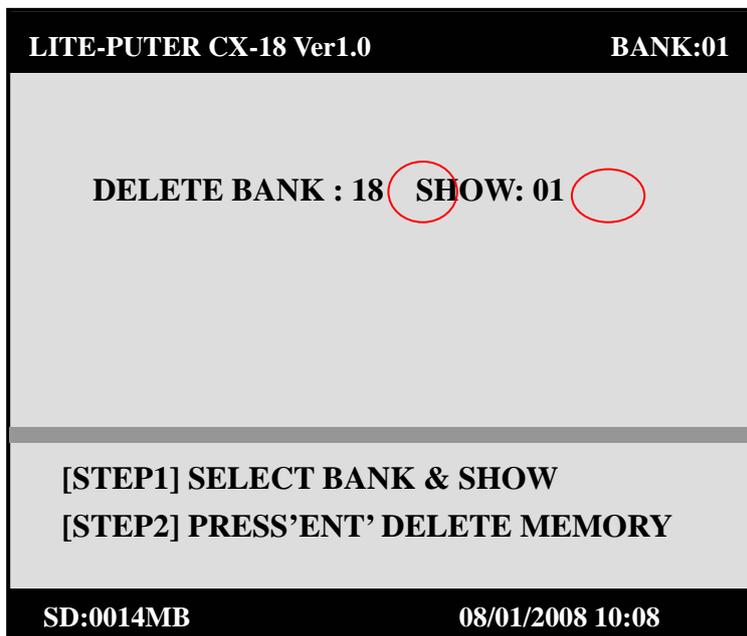


2. SHOW file delete

STEP-1 On the function menu, press **【▶】** **【◀】** (move joystick up and down) to move arrowhead to F2 and LCD displays as below,

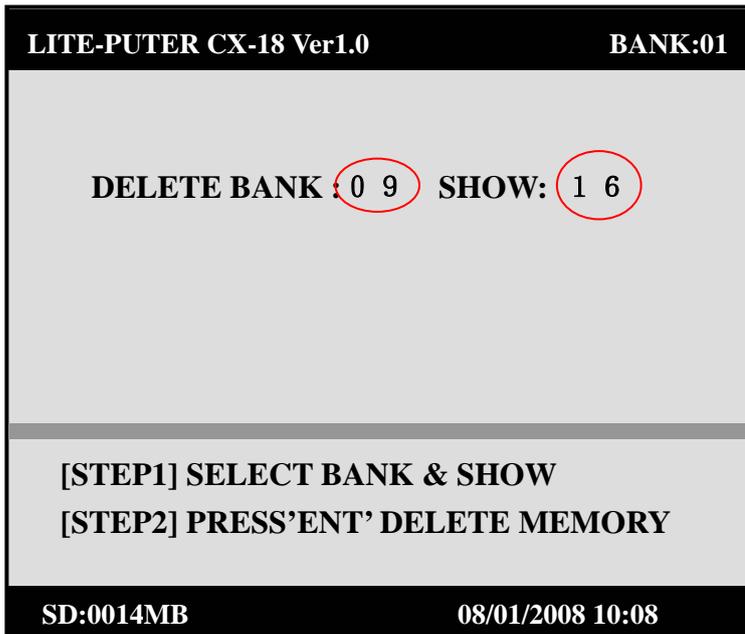


STEP-2 Press **【ENTER】** and LCD displays as below,



STEP-3 Press BANK NO.1-18 to select BANK and press SHOW NO.1-18 to select the SHOW need to delete.

For example, delete SHOW 16 under BANK 9 and LCD displays as below,
 (Press BANK 9 first, and then press SHOW 16)



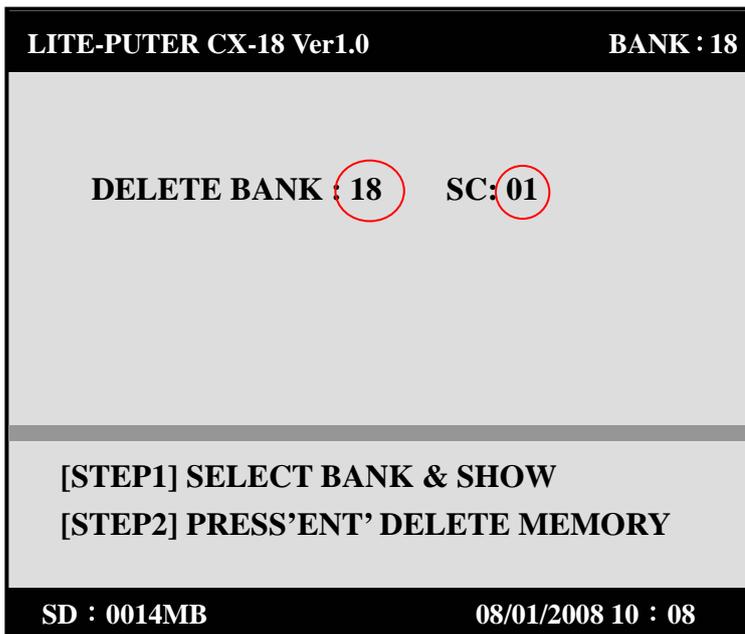
STEP-4 Press **【ENTER】** is ok.

3.SC file delete

STEP-1 On the function menu, press **【▶】** **【◀】** (move joystick up and down) to move arrowhead to F4 and LCD displays as below,

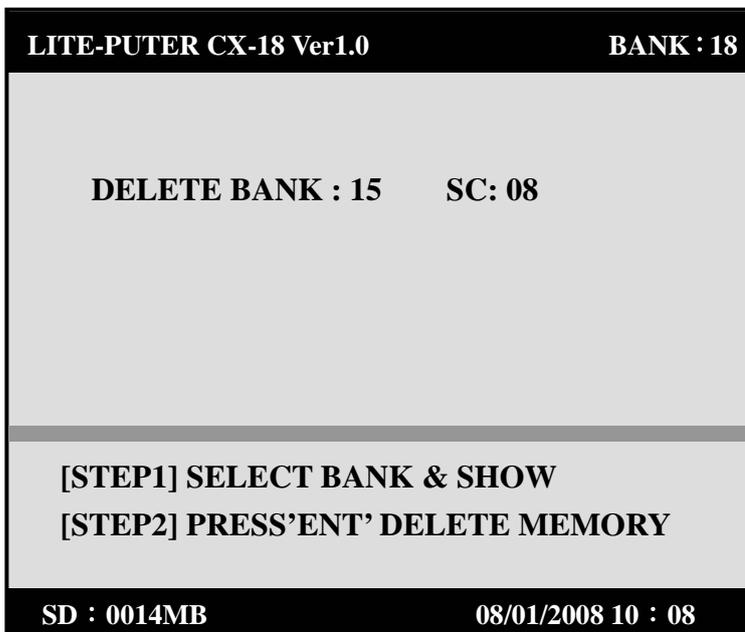


STEP-2 Press **【ENTER】** and LCD displays as below,



STEP-3 Press BANK NO.1-18 to select BANK and press SC NO.1-18 to select the SC need to delete.

For example, delete SC 08 under BANK 15 and LCD displays as below,
(Press BANK 15 first, and then press SC 08)



STEP-4 Press **【ENTER】** is ok

Chapter 5 tutorial

5-1 Fixture list

In this chapter we set some equipment to demo this program.

- 4 Geni OBY-8bit's moving head fixture 、
- 2 two channel strobe 、
- 2 one channel foggy machines.
- 2 Par64

Geni OBY-3 8bit's moving head channel List

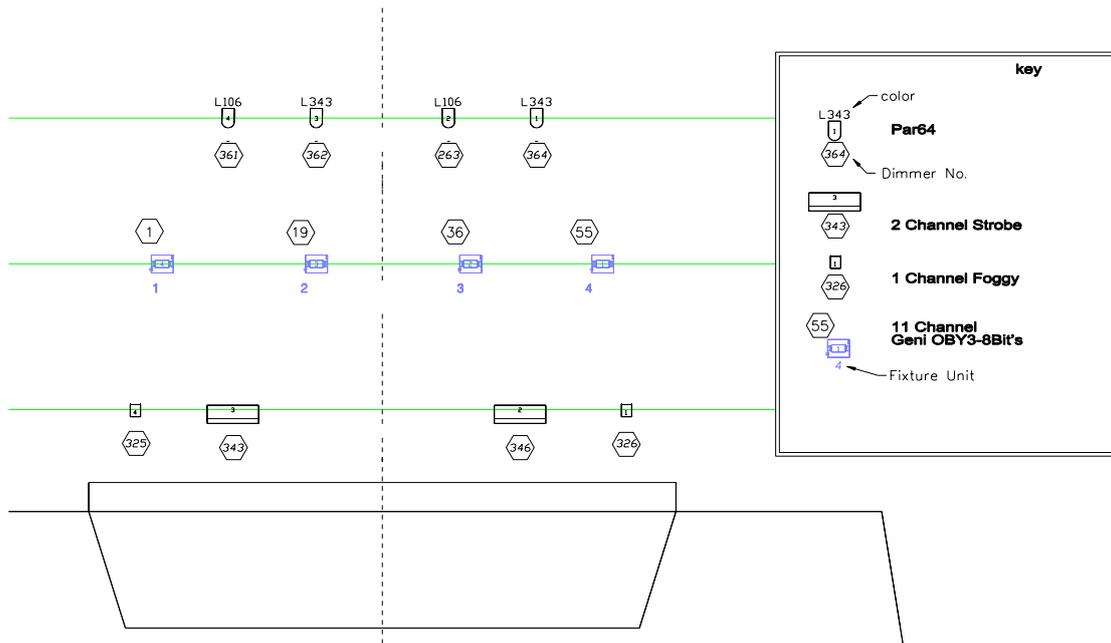
Cir	Fun
1	Int.
2	Strobe
3	Color
4	Gobo
5	Gobo Turn
6	Prism
7	Edge
8	Pan
9	Tilt
10	rest
11	Lamp on/off

Lightning Strikes 500k

Cir	Fun
1	Int.
2	Strobe

5-2 DMX address setting

Set those equipment's DMX address by the lighting plane.



2 Strobe's channel

DMX address	Fun
343	Int.
344	Strobe speed

DMX address	Fun
346	Int.
347	Strobe speed

Equipment	DMX address
foggy machine 1	325
foggy machine 2	326
1 Par64 L106	361
2 Par64 L106	362
1 Par64 L343	363
2 Par64 L343	364

DMX address setting table

CX- 18 allows control of up to 18 fixtures or fixture groups. (A fixture group comprises similar fixtures with the same DMX address.) The CX- 18 can control the first 18 channels of each fixture, or group, and can activate smoke and strobe fixtures. The CX- 18 assigns 18 channels to each fixture regardless of how many channels it uses, therefore the DMX addresses have been pre-defined.

CX-18 fixture ID	DMX address
1	1
2	19
3	37
4	55
5	73
6	91
7	109
8	127
9	145
10	163
11	181
12	199
13	217
14	235
15	253
16	271
17	289
18	307

5-3 Fixture set up

Action	Explain
Set the 4 fixture in the same set up	
In home page Press and hold 【EDIT】 for 3 seconds→ Press 【Fixture】	Enter editor mode→ enter fixture config selector menu to set up.
Press 【Bank1】 →press and hold P1 through P4 → press 【Enter】	select 【Bank1】 →Select the Fixture 1 through Fixture 4. (Set up the 4 fixtures at the same time. Enter fixture config mode. press and hold can be select a serial numbers of fixture
Slide the fader 8 → press 【▶】 [→PAN CHANNEL (+)=08 (MAC SEL'+ -')]	Specify the pan channel by moving the fader 8→ save & press to next .
Slide the fader 9 → press 【▶】 [→TILT CHANNEL (+)=08 (MAC SEL'+ -')]	Specify the tilt channel by moving the fader 9→ save & press to next .
Slide the fader 1 → press 【▶】 [→DIMMER CHANNEL =01]	Specify the dimmer/intensity channel by moving the fader 1 → save & press to next .
Slide the MASTER fader set a value [→DIM CH MIN VAL =000%]	Specify the minimum dimmer intensity value by the MASTER FADER value (you can set any value you want, usually set in 0)
→ press 【▶】	→ save & press to next .
Slide the MASTER fader set a value [→DIM CH MAX VAL =100%]	Specify the maximum dimmer intensity value by the MASTER FADER value (you can set any value you want, usually set in 100)
→ press 【▶】	→ save & press to next .
Press 【Enter】	save & finish & go back to config selector menu to select the Fixture function
Set 3 , 4 fixture reverse pan	
press and hold P3 through P4→ press 【Enter】	Select the Fixture 3 through Fixture 4. (Set up the 2 fixtures at the same time. Enter fixture config mode
press 【MACRO】 →press 【Enter】 [→PAN CHANNEL (-)=08 (MAC SEL'+ -')]	Specify the pan channel reverse. → Save &finish set up go back config selector menu
→press 【ESC】 →press 【ESC】	→Back to editor mode→Back to home page
Test the fixture	
In home page [SELECT SHOW TO RUN]	In the home page
Press bank 1 →Press 【FIXTURE】 → press and hold P1 through P4→Slide the fader 1 to full	Select bank 1 , → in the fixture mode. → Select the fixture 1 through 4 →put the lamp on
Play Joystick go around	Play the 4 fixture to go, see no. 1, 2 and 3, 4 goes

	different.
→press 【FIXTURE】 →press 【ESC】	→release to clean the stage.

- * Put the Fixture set up only in this bank only, if you want play other bank with the same set up .You may do the bank copy to make a quickly set up for other.
- * When you do the bank copy , all the [SMOKE] 、 [STROBE] 、 [SPOT] will copy to that bank too.

5-4 Strobe set up

Action	Explain
Set 344,347 strobe in the Bank2	
In the home page Press and hold 【EDIT】 for 3 seconds→	Enter editor mode→
Press 【STROBE】 [SETUP BANK:01 ACTIVE STROBE SC]	Enter strobe function to set up. The default bank is 1
→Press bank2→set fader 2&5 to 50%,→ 【Enter】 [SETUP BANK:02 ACTIVE STROBE SC]	Select the strobe batten in bank 2, set dimmer 344 to 50%, 347 to 50% for 2 strobe speed in the preset value. →save & enter to the next setting step .(The led lamp will on when you set the lever in a fader.)
→set P1 to100%,P4 to 100%→ 【Enter】 [SETUP BANK:02 INACTIVE STROBE SC]	Set dimmer 343, 346 to full value when press the strobe button to active out put. →save and finish the set up return to editor mode .
→press 【ESC】	Back to the home page
Editor the strobe 343,346 in 50%	
In the home page Press and hold 【EDIT】 for 3 seconds→	Enter editor mode→
Press 【STROBE】 [SETUP BANK:02 ACTIVE STROBE SC]	Enter strobe function to set up.
→ 【Enter】 [SETUP BANK:02 ACTIVE STROBE SC]	Don't do anything. →enter to the next setting step
→set P1 down to0 and up to 100% , P4 down to0 and up to 50%→ 【Enter】 [SETUP BANK:02 INACTIVE STROBE SC]	To release dimmer 343, 346 to 0 and set to 100% value. Put the strobe button with a new active out put lever. →save and finish the set up return to editor mode .
→press 【ESC】	Back to the home page
Play back a strobe button	
In the home page [SELECT SHOW TO RUN]	In the home page
Press bank 2 Press 【STROBE】	Select bank 2 , →press strobe to run.

- * A bank only have one **【STROBE】** to set up.
- * When you do the bank copy , all the [SMOKE] 、 [STROBE] 、 [SPOT] will copy to that bank too.

5-5 Smoke set up

Action	Explain
Set a smoke in the Bank02 dimmer 325,326 to lower lever30% , height lever 60%	
In the home pag Press and hold 【EDIT】 for 3 seconds→	Enter editor mode→
Press 【SMOKE】 [SETUP BANK:01 ACTIVE SMOKE SC]	Enter smoke function to set up. The default bank is 01
→Press bank2→set P1, P2 to 30%→ 【Enter】 [SETUP BANK: 02 ACTIVE SMOKE SC.]	Select the smoke button in bank 2, set dimmer 325 to 30%, 326 to 30% for 2 smokes in the preset value. → save & enter to the next setting step .(The led lamp will on when you set the lever in a fader.)
→set P1 to 60%,P2 to 60%→ 【Enter】 [SETUP BANK:02 INACTIVE STROBE SC]	Set dimmer 325, 326 to 60% values when press the smoke button to active out put. →save and finish the set up return to editor mode .
→press 【ESC】	Back to the home page
Editor the smoke dimmer 325,326 in height lever 50%	
In the home pag Press and hold 【EDIT】 for 3 seconds→	Enter editor mode→
Press 【SMOKE】 [SETUP BANK:02 ACTIVE SMOKE SC]	Enter smoke function to set up.
→ 【Enter】 [SETUP BANK:02 ACTIVE SMOKE SC]	Don't do anything. →enter to the next setting step
→set P1, P2 down to 0 and up to 50%→ 【Enter】 [SETUP BANK:02 INACTIVE SMOKE SC]	To release dimmer 343, 346 to 0 and set to 50% value. Put the smoke button with a new active out put lever. →save and finish the set up return to editor mode .
→press 【ESC】	Back to home page
Play back a smoke button	
In home page [SELECT SHOW TO RUN]	In the home page
Press bank 2 Press 【SMOKE】	Select bank 2 , →press smoke to run.

- * A bank only have a **【SMOKE】** to set up.
- * When you do the bank copy , all the **【SMOKE】** 、 **【STROBE】** 、 **【SPOT】** will copy to that bank too.

5-6 Spot set up

Action	Explain
Set fixture 4 to be a special spot to master of ceremonies in BANK 2	
In home page Press and hold 【EDIT】 for 3 seconds→	Enter editor mode→
Press 【Spot】 [SETUP BANK: 01 SPOT SCENE.] [FADE TIME : 0.0S]	Enter spot scene function to set up. The default bank is 01 fade time is 0.0 second
→Press bank2→press P4 →Slide the no.1fader to full , play Joystick to a position→Slide the pitch fader to 0.8 s→ 【Enter】	Select the spot button in bank 2, Select 4 th fixture → set the lamp on to full , use Joystick set a point to be a position→set a 0.8 fade time with pitch fade →save & finish the set up return to editor mode .
→press 【ESC】	Back to home page
Play back a spot button	
In home page [SELECT SHOW TO RUN]	In the home page
Press bank 2 Press 【SPOT】	Select bank 2 , →press spot to run.

- * **A bank only have a **【SPOT】** to set up.**
- * **When you do the bank copy , all the **【SMOKE】**、**【STROBE】**、**【SPOT】** will copy to that bank too.**

5-7 Programming a bank a show

Action	Explain
Program a show 1 in bank 2 with 3 step	
In home page Press and hold 【EDIT】 for 3 seconds→press 【SHOW】	In home page Enter editor mode→select show editor mode.
→Press Bank 2→press show 1→press 【Enter】 [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:EMPTY MACRO:OFF]	Select the show 1 in the bank2 to be editor The default values.
→press and hold P1 through P4→Slide no.1fader to full→press 【FINE】 3 sec.→play Joystick to a position play Joystick to a position 1 →press 【ADD】 [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE: 01, 01 MACRO:OFF]	Select first through 4 th fixture →set the 4 lamp on to full →set the 4 fixture's PAN/TILT value to 50% , use Joystick set a point to be a position 1 →record the first step in show1. There are one step in the show
→play Joystick to a position play Joystick to a position 2 →press 【ADD】 [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE: 02, 02 MACRO:OFF]	use Joystick set a point to be a position 2 →record the second step in show1. There are two steps in the show
→play Joystick to a position play Joystick to a position 3 →press 【ADD】 [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE: 03, 03 MACRO:OFF]	use Joystick set a point to be a position 3 →record the third step in show1. There are three steps in the show
Program the time with live	
Press 【PREV.】 →Slide PITCH,RANGE,→ Press 【STORE.】 →Press 【PREV.】	In preview function with live →use PITCH,RANGE, , adjust the timing→record the show time→return to show editor mode
→press 【ESC】 →press 【ESC】 →press 【ESC】	Back to home page
Play back the show	
In the home page [SELECT SHOW TO RUN]	In the home page
Press bank 2 Press 【SHOW】 →Press 【SHOW1】	Select bank 2 , →press show function→run the show1 .

* When you have sever shows already been settled , you can press them all the way you want , it will goes the sequence by shows number order.

5-8 Programming a bank a scene

Action	Explain
Program a scene 1 in bank 2 with 2 step	
In bank 2 Press and hold 【EDIT】 for 3 seconds→ press 【SCENE1】 [BANK:02 SEQ:01]	In the bank 2 Enter editor mode→select scene editor mode ,select scene 1 to be editor.
→ 【Enter】 [BANK:02 SEQ:01] [FADE: 2.0S WAIT: 2.0S] [SCENE: EMPTY MODE:00]	Enter scene editor mode
Press →Slide PITCH ,RANGE fader to 0.6S → P1→ Slide 1+3 fader to 50%→press [ADD] [BANK:02 SEQ:01] [FADE: 0.6S WAIT: 0.6S] [SCENE: 01, 01 MODE:00]	→Set the time with fade 0.6s and wait 0.6s Press P1 select dimmer 361+363 value to 50% ,add first step
Slide 1+3 fader to 0%→Slide 2+4 fader to 50%→ press [ADD] [BANK:02 SEQ:01] [FADE: 0.6S WAIT: 0.6S] [SCENE: 02, 02 MODE:00]	Take 361+363 at value to 00% , set 362+364 value to 50% Add second step MODE :00 in one scene cue is stand mode; MODE: 01 in one scene cue will flash itself.
→press 【ESC】 →press 【ESC】	Back to home page
Play back the scene	
In the home page [SELECT SHOW TO RUN]	In the home page
Press bank 2 Press 【SHOW】 →Press 【SCENE1】	Select bank 2 , →press show function→run the scene1 .

- * Run a scene you don't have to running in show mode,
- * It can be with a one scene cue in **MODE :00** ; a chase cue with 32 steps. in **MODE :00**

5-9 Copy a bank

Action	Explain
Copy bank 2 to bank 1	
In home page Press [func.] →press [▶] →press [▶] ... [F1:INTER COPY SHOW→SHOW] [F2:DEL INTER SHOW MEM] [F3:INTER COPY SC→SC] [F4:DEL INTER SC MEM] →[F5:INTER COPY BANK→BANK] [F6:DEL INTER BANK MEM] [F7:INITINAL SYSTEM] [F8:COPY SD→INTERMEMORY] [F:9COPY INTERMEMORY→SD] [F:10SETUP SYSTEM CLOCK] [F:11SD CARD CHECK ON/OFF]	In home page Enter function menu→press [▶] 5 time Chose bank copy functions
→press [ENTER] [COPY INTER FROM BANK TO BANK] [COPY FROM BANK:00 TO BANK:00]	Enter copy function
Press BANK 2→PRESS [▶] → Press BANK 1 → press [Enter]	Press bank 2 want to be copy →change cursor to next → press bank 1 to be target → finish the copy return to editor mode .
→press [ESC]	Back to home page

5-10 Copy a show to editor

Action	Explain
Copy bank 2 show 1 to bank 2 show 2	
In home page Press [func.] →[F1:INTER COPY SHOW→SHOW] [F2:DEL INTER SHOW MEM] [F3:INTER COPY SC→SC] [F4:DEL INTER SC MEM] [F5:INTER COPY BANK→BANK] [F6:DEL INTER BANK MEM] [F7:INITINAL SYSTEM] [F8:COPY SD→INTERMEMORY] [F:9COPY INTERMEMORY→SD]	In home page Enter function menu→ Chose chow copy functions

[F:10SETUP SYSTEM CLOCK] [F:11SD CARD CHECK ON/OFF]	
→press 【ENTER】 [COPY FROM BANK:00 TO BANK:00] [COPY FROM SHOW:00 TO SHOW:00]	Enter copy function
Press BANK 2→Press SHOW 1 PRESS 【▶】 → Press BANK 2 →Press SHOW 2 press 【Enter】 [COPY FROM BANK:02 TO BANK:02] [COPY FROM SHOW:01 TO SHOW:02]	Press bank 2 , show1 want to be copy →change cursor to next. → press bank 2, show2 to be target → finish the copy return to editor mode .
→press 【ESC】	Back to home page
Editor bank 2 show 2's step with gobo	
In home page Press and hold 【EDIT】 for 3 seconds→press 【SHOW】	In home page Enter editor mode→select show editor mode.
→Press Bank 2→press show 2→press 【Enter】 →Slide fader 4 to 50% →press 【STORE】 [BANK:02 SHOW:02] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:01, 03 MACRO:OFF]	Select the show 2 in the bank2 to be editor →Select channel 4 gobo 3 on stage → save this step
→ 【▶】 →Set fader 4 to 50% →press 【STORE】 [BANK:02 SHOW:02] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:02, 03 MACRO:OFF]	Change step 2 on stage →Slide channel 4 gobo 3 on stage again → save this step
→ 【▶】 →Set fader 4 to 50% →press 【STORE】 [BANK:02 SHOW:02] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:03, 03 MACRO:OFF]	Change step 3 on stage →slide channel 4 gobo 3 on stage again → save this step
→press 【ESC】 →press 【ESC】 →press 【ESC】	Back to home page

5-10-1 Programming a show with macro

Action	Explain
Program a show 5 in bank 2 with 3 step	
Press and hold 【EDIT】 for 3 seconds→press 【SHOW】	Enter editor mode→select show editor mode.
→Press Bank 2→press show 5→press 【Enter】 [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:EMPTY MACRO:OFF]	Select the show 5 in the bank2 to be editor The default values.
→press and hold P1 through P4→Slide no.1fader to full→press 【FINE】 →play Joystick to a position play [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE: EMPTY MACRO:OFF]	Select first through 4 th fixture →set the 4 lamp on to full →set the a PAN/TILT value to 50% · use Joystick set a propriety position ◦
Slide pitch fader in 3 sec. [BANK:02 SHOW:02] [FADE: 3S WAIT: 2.S] [SPEED:0.1S SIZE:000%] [SCENE: EMPTY MACRO:CIRC]	Set the fade time in 3second
→press 【ENTER】 Slide pitch fader in 3 sec. [BANK:02 SHOW:02] [FADE: 3S WAIT: 3S] [SPEED:0.1S SIZE:000%] [SCENE: EMPTY MACRO:CIRC]	Change the cursor to wait time Set the wait time in 3second
→press 【ENTER】 Slide speed in 1 sec. [BANK:02 SHOW:02] [FADE: 3S WAIT: 3S] [SPEED: 1S SIZE:000%] [SCENE: EMPTY MACRO:CIRC]	Change the cursor to SPEED time Set the speed time in 1 second
→Slide 【RANGE】 to 80% →Press[ADD] [BANK:02 SHOW:02] [FADE: 3S WAIT: 3S] [SPEED: 1S SIZE: 081%] [SCENE: 01, 01 MACRO:CIRC]	Change the VALUE to 80% Add a step and save .
Play back the show	

In the home page [SELECT SHOW TO RUN]	In the home page
Press bank 2 Press 【SHOW】 →Press 【SHOW5】	Select bank 2 , →press show function→run the show5 .

5-10-2 Modify show fades time

Editor the show in blind ,change fade in0.7S wait 0.8s	
Press and hold 【EDIT】 for 3 seconds→press 【SHOW】 [BANK:02 SHOW:02] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:01, 03 MACRO:OFF]	Enter editor mode→select show editor mode.
→Press Bank 2→press show 2→press 【ENTER】 →Slider PITCH to0.7S →press 【ENTER】 [BANK:02 SHOW:02] [FADE: 0.7S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:01, 03 MACRO:OFF]	Select the show 2 in the bank2 to be editor →Slider PITCH from 0 up 1leve to to0.7S for the fade time→change cursor to next WAIT IN STEP 1
→Slider RANGE to0.8S [BANK:02 SHOW:02] [FADE: 0.7S WAIT: 0.8S] [SPEED:0.1S SIZE:052%] [SCENE:01, 03 MACRO:OFF]	Slider RANGE from 0 up 1leve to to0.8S for the Wait time→
→ 【▶】 →press 【ENTER】 →Slider PITCH to0.7S [BANK:02 SHOW:02] [FADE: 0.7S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:02, 03 MACRO:OFF]	Select the STEP 2 →into the fade time to editor →Slider PITCH from 0 up 1leve to to0.7S for the fade time IN STEP 2
→press 【ENTER】 →Slider RANGE to0.8S [BANK:02 SHOW:02] [FADE: 0.7S WAIT: 0.8S] [SPEED:0.1S SIZE:052%] [SCENE:02, 03 MACRO:OFF]	into the wait time to editor→Slider RANGE from 0 up 1leve to to0.8S for the Wait time

→ 【▶】 →press 【ENTER】 →Slider PITCH to0.7S [BANK:02 SHOW:02] [FADE: 0.7S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:03, 03 MACRO:OFF]	Select the STEP 3 →into the fade time to editor →Slider PITCH from 0 up 1leve to to0.7S for the fade time IN STEP 3
→press 【ENTER】 →Slider RANGE to0.8S [BANK:02 SHOW:02] [FADE: 0.7S WAIT: 0.8S] [SPEED:0.1S SIZE:052%] [SCENE:03, 03 MACRO:OFF]	into the wait time to editor→Slider RANGE from 0 up 1leve to to0.8S for the Wait time
press 【STORE】 →	Save the show
→press 【ESC】 →press 【ESC】 →press 【ESC】	Back to home page

5-10-3 Add a show step

Action	Explain
Copy bank 2 show 1 to bank 2 show 3 ,and add a step	
Press 【func.】 →[F1:INTER COPY SHOW→SHOW] [F2:DEL INTER SHOW MEM] [F3:INTER COPY SC→SC] [F4:DEL INTER SC MEM] [F5:INTER COPY BANK→BANK] [F6:DEL INTER BANK MEM] [F7:INITINAL SYSTEM] [F8:COPY SD→INTERMEMORY] [F:9COPY INTERMEMORY→SD] [F:10SETUP SYSTEM CLOCK] [F:11SD CARD CHECK ON/OFF]	Enter function menu→ Chose chow copy functions
→Press 【ENTER】 [COPY FROM BANK:00 TO BANK:00] [COPY FROM SHOW:00 TO SHOW:00]	Enter copy function
Press BANK 2→Press SHOW 1 PRESS 【▶】 → Press BANK 2 →Press SHOW 3 press 【Enter】	Press bank 2 , show1 want to be copy →change cursor to next. → press bank 2, show3 to be target → Save &finish the copy return to editor mode .

→press 【ESC】	Back to home page
Press and hold 【EDIT】 for 3 seconds→press 【SHOW】	Enter editor mode→select show editor mode.
→Press Bank 2→press show 3→press 【Enter】 [BANK:02 SHOW:03] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:01, 03 MACRO:OFF]	Select the show 3 in the bank2 to be editor The led lamp display this show on the desk
PRESS 【▶】 →... [BANK:02 SHOW:03] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:02, 03 MACRO:OFF]	Press each step see which step you want to add Example .new step will be added after step 2. So press 【▶】 until display scene:02, 02
play Joystick to a new position press[ADD] [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:04, 04 MACRO:OFF]	Set a new step by the joy stick Record a new step
→press 【ESC】 →press 【ESC】 →press 【ESC】	Back to home page

5-10-4 Copy a new show delet a step

Action	Explain
Copy bank 2 show 1 to bank 2 show 4 ,and delete a step	
Press 【func.】 →[F1:INTER COPY SHOW→SHOW] [F2:DEL INTER SHOW MEM] [F3:INTER COPY SC→SC] [F4:DEL INTER SC MEM] [F5:INTER COPY BANK→BANK] [F6:DEL INTER BANK MEM] [F7:INITINAL SYSTEM] [F8:COPY SD→INTERMEMORY] [F:9COPY INTERMEMORY→SD] [F:10SETUP SYSTEM CLOCK] [F:11SD CARD CHECK ON/OFF]	Enter function menu→ Chose chow copy functions

→Press 【ENTER】 [COPY FROM BANK:00 TO BANK:00] [COPY FROM SHOW:00 TO SHOW:00]	Enter copy function
Press BANK 2 → Press SHOW 1 PRESS 【▶】 → Press BANK 2 → Press SHOW 4 press 【Enter】 [COPY FROM BANK:02 TO BANK:02] [COPY FROM SHOW:01 TO SHOW:04]	select bank 2 , show1 want to be copy → change cursor to next. → press bank 2, show4 to be target → finish the copy return to editor mode .
→press 【ESC】	Back to home page
Press and hold 【EDIT】 for 3 seconds→press 【SHOW】	Enter editor mode→select show editor mode.
→Press Bank 2→press show 4→press 【Enter】 [BANK:02 SHOW:04] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:01, 03 MACRO:OFF]	Select the show 4 in the bank2 to be editor The led lamp display this show on the desk
PRESS 【▶】 →... [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:02, 03 MACRO:OFF]	Press each step see which step you want to delete Example. Delete step will be step 2. So press 【▶】 until display scene:02, 03
press[DEL] [BANK:02 SHOW:01] [FADE: 2.0S WAIT: 2.S] [SPEED:0.1S SIZE:052%] [SCENE:01, 03 MACRO:OFF]	Delete the step2
→press 【ESC】 →press 【ESC】 →press 【ESC】	Back to home page

5-11 Playback a show and scene

Play a scene , a show	
Put the pitch fader to half way in the fader. Put the range fader to half way in the fader.	During the show those two fade have to set this for the default setting in this control.
In the home page Press BANK 2 → Press SCENE1	In home page Select BANK2 to run Select scene1 on stage
Press [show] →show1	In to show mode→play back show1

[SELECT SHOW TO RUN]	
Off the show	
Press 【SHOW】 →	→press show function to turn off show mode (show1 is out, but only turn off the intensity).
Press 【SHOW】 →	Come back the show1
Press show2,scene2 in the same time	Come in those together , it will change by itself
Call sever shows come in together	
Press and hold show1,add press show3	There are show1,show2,show3 and scene1 on stage

*** Scene do not have to run in show mode**

5-11-1 Pause to a show and scene

Pause the show	
Put the pitch fader to half way in the fader. Put the range fader to half way in the fader.	During the show those two fade have to set this for the default setting in this control.
In the home page [SELECT SHOW TO RUN]	In the home page
Press Bank 2 Press 【SHOW】 → Press 【SHOW1】	Select bank 2 , →press show function→run the show1 .
→Press 【MACRO】 → 【▶】 → 【◀】	Pause the show →Go next step →Go back previous.
→Press 【MACRO】	Release the pause of the show.

5-11-2 changing the Rate of a show

Reduce the speed of the show and the scene	
In the home page [SELECT SHOW TO RUN]	In the home page
Press Bank 2 Press 【SHOW】 → Press SHOW 1, SCENE 1	Select bank 2 , →press show function→run the show1 .
Slide the pitch & range fader up Slide the pitch & range fader down	Slide up will going up the speed. Slide down will slow down the speed.

*** Pitch is fade time , Range is wait time ◦ You can try to adjust them together or separate ,when the music is change you do not have time to editor the timing.**

5-12 SD card

Action	Explain
Copy inter memory to SD card	
Press 【func.】 →[F1:INTER COPY SHOW→SHOW] [F2:DEL INTER SHOW MEM] [F3:INTER COPY SC→SC] [F4:DEL INTER SC MEM] [F5:INTER COPY BANK→BANK] [F6:DEL INTER BANK MEM] [F7:INITINAL SYSTEM] [F8:COPY SD→INTERMEMORY] [F:9COPY INTERMEMORY→SD] [F:10SETUP SYSTEM CLOCK] [F:11SD CARD CHECK ON/OFF]	Enter function menu→ Chose chow copy functions
Press 【▶】 11 time [F1:INTER COPY SHOW→SHOW] [F2:DEL INTER SHOW MEM] [F3:INTER COPY SC→SC] [F4:DEL INTER SC MEM] [F5:INTER COPY BANK→BANK] [F6:DEL INTER BANK MEM] [F7:INITINAL SYSTEM] [F8:COPY SD→INTERMEMORY] [F9:COPY INTERMEMORY→SD] [F10:SETUP SYSTEM CLOCK] →[F11:SD CARD CHECK ON/OFF]	Select the F11: SD card check function
→Press 【ENTER】 ON/OFF [SD CARD CHECH ON/OFF] [OFF ON]	Into SD card menu
→Press 【▶】 [OFF ON]	Move cursor to select on
→Press 【ENTER】 →[F1:INTER COPY SHOW→SHOW] [F2:DEL INTER SHOW MEM] [F3:INTER COPY SC→SC] [F4:DEL INTER SC MEM] [F5:INTER COPY BANK→BANK] [F6:DEL INTER BANK MEM] [F7:INITINAL SYSTEM] [F8:COPY SD→INTERMEMORY]	Save and back to function menu

<p>[F9: COPY INTERMEMORY→SD] [F10: SETUP SYSTEM CLOCK] [F11: SD CARD CHECK ON/OFF]</p>	
<p>→Press 【▶】 7 time [F1: INTER COPY SHOW→SHOW] [F2: DEL INTER SHOW MEM] [F3: INTER COPY SC→SC] [F4: DEL INTER SC MEM] [F5: INTER COPY BANK→BANK] [F6: DEL INTER BANK MEM] [F7: INITINAL SYSTEM] [F8: COPY SD→INTERMEMORY] → [F9: COPY INTERMEMORY→SD] [F10: SETUP SYSTEM CLOCK] [F11: SD CARD CHECK ON/OFF]</p>	<p>Select the F9: COPY INTERMEMORY→SD</p>
<p>→Press 【ENTER】 COPY DATA INTER MEMORY→ SD</p>	<p>Enter copy data mode</p>
<p>Press and hold BANK1..BANK18 →Press 【ENTER】</p>	<p>Select the bank from 1 to 18 (select range of the bank that you wand)</p>
<p>→[F1: INTER COPY SHOW→SHOW] [F2: DEL INTER SHOW MEM] [F3: INTER COPY SC→SC] [F4: DEL INTER SC MEM] [F5: INTER COPY BANK→BANK] [F6: DEL INTER BANK MEM] [F7: INITINAL SYSTEM] [F8: COPY SD→INTERMEMORY] [F9: COPY INTERMEMORY→SD] [F10: SETUP SYSTEM CLOCK] [F11: SD CARD CHECK ON/OFF]</p>	<p>When finish the copy it will go back to the FUNC.menu</p>
<p>→press 【ESC】</p>	<p>Back to home page</p>

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Revision Record

Version	Record
D	Change function menu

Issued on: July, 2009

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