Junior'2001
DMX Lighting Controller
【User Manual】

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Lite-Puter ISO 9001 CERTIFIED

Chapter I   JUNIOR Introduction

1-1   Features

- Small and light.
- Control 512 channels.
- Can save 46 sets scens: 40 sets + 6 sets(hot keys)。
- 6 sets "hot keys" design. The users can save the most often used scenes to the hot keys and call the scenes out quickly during performances.
- The inner battery can work for 3 hours without external power input.
- Can do simultaneous signal output with another console.
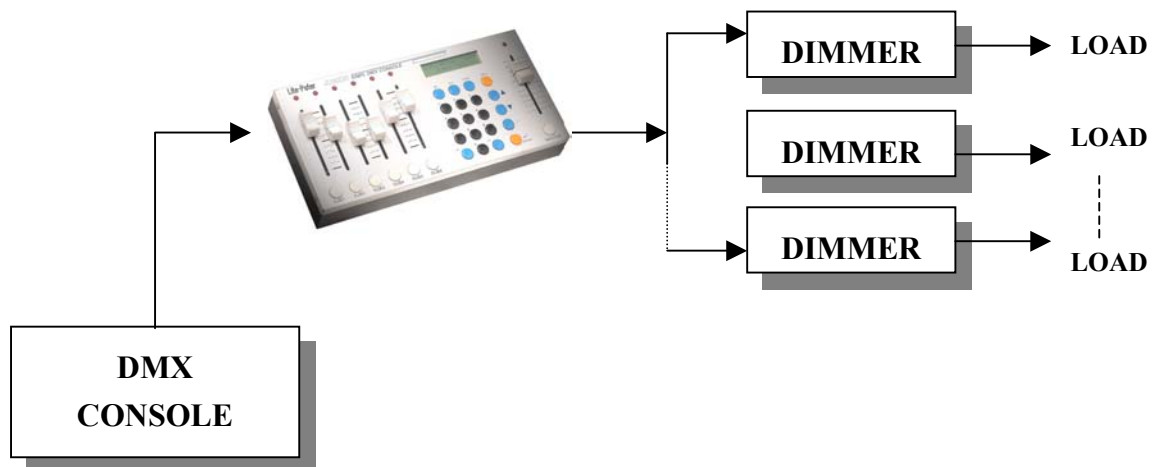
1-2   Specifications

■	Power supply	DC 15V / 1A
■	DMX signal input / output	DMX512 / 1990
■	DMX signal connector	XLR 5-pin
■	Dimensions	262(L) x 132(W) x 45(H)mm
■	Weight	3 Kg
■	CE Certificate	ET87S-09-058

1-3   Power on

- There is DC POWER JACK on the rear panel providing the users to use 15V/1A DC power input.
- Please make sure the switcher on the control panel is ''ON'' when the DC power inputs.
- DC POWER JACK: Inside 『negative pole』, outside 『positive pole』。

1-4   LCD power-saving device

To make the inner battery work longer, the LCD light will get dark if the users don't do any operation for 8 seconds. The LCD light will light up again when the users press or push any key or fader.
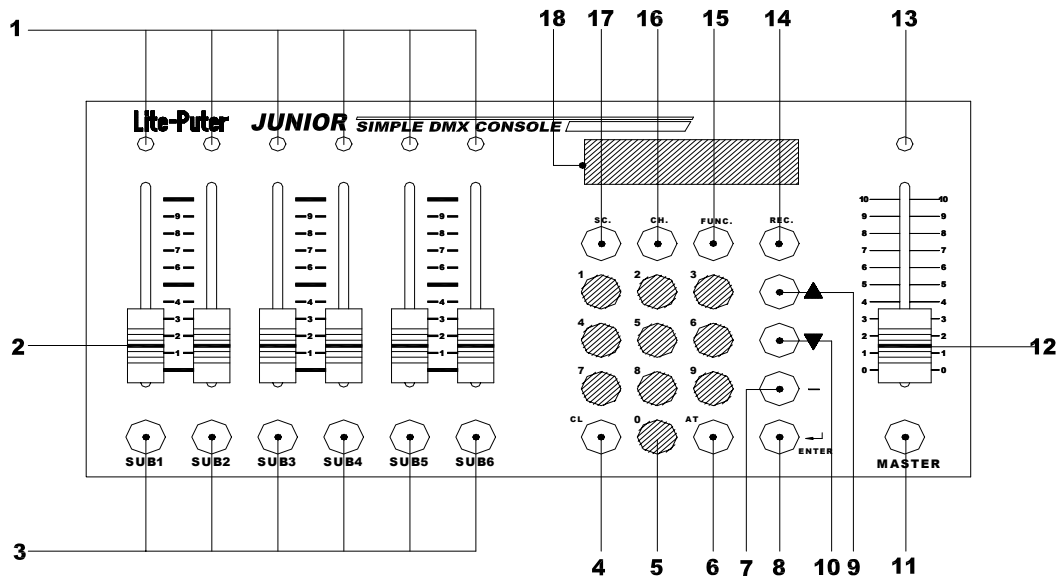
1-5   Auto setting memorizing

The machine will auto memorize all the setting before switching off.

1-6   Notice

1. Please fill the battery for 4 hours before using this machine the first time.
2. The data will be lost if the machine is not turned on for 7 days.

Chapter II   Device Introduction

2-1 Control panel functions

1	**LED**	Indicating executing channel or scene.	**2**	**FADER VR**	Adjust the channel value Call out SUB scenes Chase
3	**SUB**	Set/ call out the SUB scenes by these hot keys	**4**	**CL**	Clear
5	**0-9**	Number keys / Letter keys	**6**	**AT**	Indicator for channel value
7	**—**	Connecting key for one channel to another channel.	**8**	**ENTER**	Confirm key
9	**▲**	■ Choose functions ■ Set channel ■ Adjust chase speed	**10**	**▼**	■ Choose functions ■ Set channel ■ Adjust chase speed
11	**MASTER**	Master dimming key	**12**	**MASTER VR**	Master fader for dimming value
13	**LED**	Indicator of master dimming	**14**	**REC**	key for recording scenes
15	**FUNC**	Display all functions	**16**	**CH**	Channel setting
17	**SC**	Call out scenes	**18**	**LCD**	Display

2-2   Rear panel functions
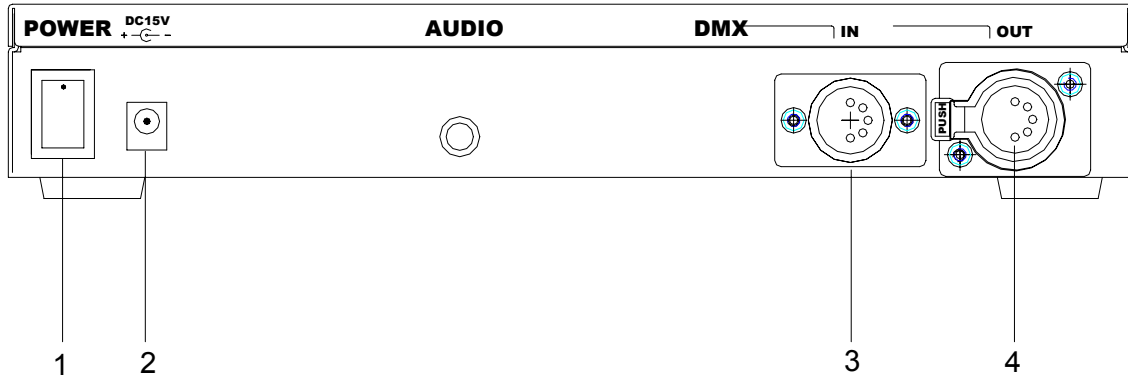
1) Power on / off
2) Power input 15V,1A
3) DMX signal connector: DMX IN
4) DMX signal connector: DMX OUT

2-3   Dimensions   unit: mm
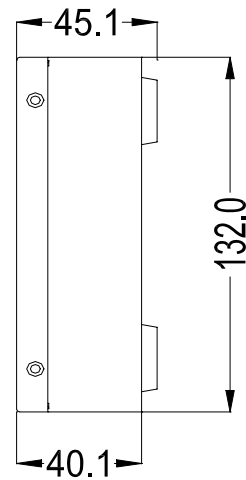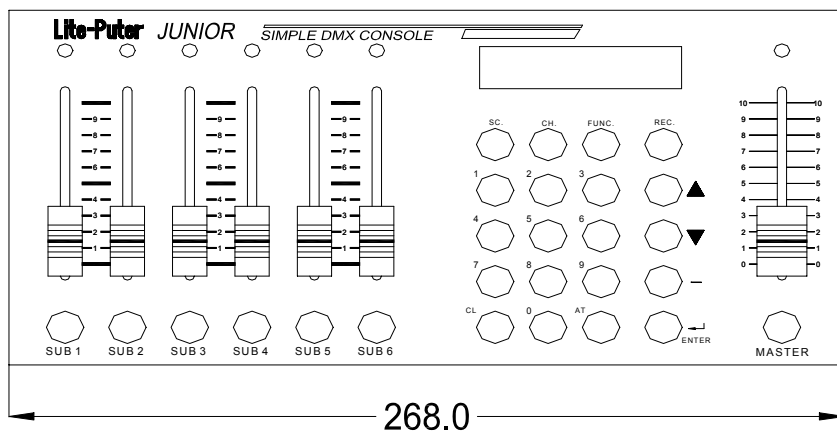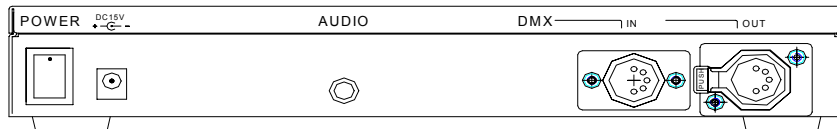
Chapter 3   Opertaion & Setting

※ **Must DO before all the setting:**

Turn on the switch on the rear panel, and then push **[MASTER VR]** to the top **-**100%.
(MASTER VR affects the output value of all channels)

3-1 Channel value setting

3-1-1 Set the start channel

STEP-1：Press【**FUNC**】key，and LCD will display,

```
→CH    SETTING
  SUB   MASTER
```

STEP-2：Press【**ENTER**】key，and LCD will display,

```
CH.SET   1--- 6
CH 1-----=  0%
```

In CHANNEL SETTING mode, each VR controls different channels

STEP-3：Use【▲】、【▼】keys to choose desired channel.

```
CH.SET   2--- 7
CH 2-----=  0%
```

Press【▲】once, and VR-1 corresponds to CH-2.

STEP-4：Push【**VR-1**】for direct output to CH-2; mean while LCD will show the output value.

```
CH.SET   2--- 7
CH 2----= 52%
```

The dimming of CH-2 is 52%

STEP-5：In this example, start channel is CH.2. Please do the steps above to change the start channel.

3-1-2 Output setting of individual channel

! In this example, the start channel is CH-1.

STEP-1 ：Press【**FUNC**】key，and the LCD will display,

```
→CH    SETTING
  SUB   MASTER
```

STEP-2 ：Press【**ENTER**】key.

```
CH.SET   1--- 6
CH 1-----=  0%
```

> In CHANNEL SETTING mode, each VR controls different channels.

STEP-3 ：Push【**VR-1**】for direct output to CH-1; meantime the LCD will show the output value.

```
CH.SET    1--- 6
CH 1-----= 52%
```

> The value 52% means the current and exact VR position.

STEP-4 ：Then push【**VR-2**】.

```
CH.SET   1--- 6
CH 2-----= 25%
```

STEP-5 ：Please repeat the above steps to set the output value of CH-3 to CH-6.。

3-1-3 Output setting of constant channels

EX.： How to set the output value to 50% from CH-5 to CH-20 at one time?

STEP-1 ：Press【**CH**】key then the vernier will go to CH

```
CH.SET    1--- 6
CH 1-----=  0%
```

STEP-2：Use number keys【0...9】to enter the first channel.

```
CH.SET   1--- 6
CH 5-----=   0%
```

STEP-3：Press【—】key, then the users can enter the last channel.

```
CH.SET    1--- 6
CH 5   - __-=  0%
```

Users entered number【5】

STEP-4：Use number keys【0...9】to enter the last channel.

```
CH.SET    1--- 6
CH 5   - 20-=  0%
```

Users entered numbers【2】&【0】

STEP-5：Press【AT】key and the vernier will go the the output value.

```
CH.SET    1--- 6
CH 5   - 20-=  0%
```

The original output value of CH5-CH20 is 0%.

STEP-6：Use number keys【0...9】to enter the desired output value.

```
CH.SET    1--- 6
CH 5   - 20-= 50%
```

Users entered the numbers【5】&【0】

P.S. Users can also push 【VR-1】to 50% for a prompt output.

STEP-7：Press【ENTER】key to output the value of CH5 ~ CH20.

```
CH.SET  21--- 26
CH 21-----= 0%
```

The display will show the next channel automatically.

STEP-8：Please do as above steps to finish the setting of other constant channels.

3-1-4 Clear the setting of all channels

2 options：

(1). Press 【CL】+【CH】at the same time to clear the value setting of all channels.

(2). Push【MASTER VR】to the bottom then press the【MASTER】key.

3-2 Scenes setting

2 setting options for memorizing 46 sets scenes in Junior:

(1). Setting with function key【SC】：Can set to 40sets

(2). Setting with hot key【SUB 1 ~ SUB 6】：Can set to 6sets

Users can memorize the most often used scenes to the 6 hot keys for quick call-out.

3-2-1　Save scenes to SUB1 ~ SUB6

STEP-1：Follow the steps in chapter 3-1-2/ 3-1-3 to set the channels values.　In chapter 3-1-3, we have set the value of CH5 ~ CH20 as 50%, now we keep this example for the following operation.

STEP-2：Press【REC】key and the LCD will display,

> **RECORD TO SC** ▢
> **KEYIN SC　1 … 40**

STEP-3：Press any key of【SUB1】~ [SUB6].

> **SAVE TO SUB1**
> **ENT=SURE ANY=NO**

Users pressed key SUB 1 to enter the scene into SUB 1.

Yes：Press【ENTER】
No：Press any key

STEP-4：Press【ENTER】key to save 1 set scene into SUB 1.

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3-2-2　Save scenes to SCENE 1 ~ SCENE 40

STEP-1：Follow the steps in chapter 3-1-2/ 3-1-3 to set the channels values.　In chapter 3-1-3, we have set the value of CH5 ~ CH20 as 50%, now we keep this example for the following operation.

STEP-2：Press【REC】key and the LCD will display,

```
RECORD TO SC ▊
KEYIN SC   1 … 40
```
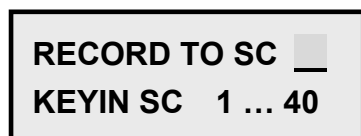
STEP-3：Use number keys【0…9】to enter the desired scene number.
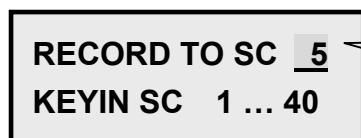
```
RECORD TO SC  5
KEYIN SC   1 … 40
```
Users entered【5】to save the channels values into Scene 5.

If there is already data in Scene 5, the LCD will display as below,
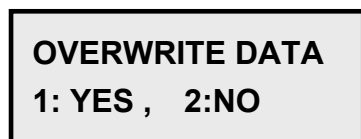
```
OVERWRITE DATA
1: YES ,   2:NO
```
Yes：Press【1】
No：Press【2】

If there is no data in Scene 5, then the LCD will display,

```
Name: ▊
Keyin ENGLISH.
```
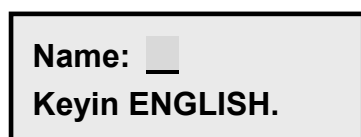
STEP-4：Use number keys【0…9】to enter a scene name.
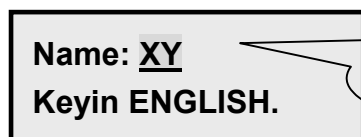
```
Name: XY
Keyin ENGLISH.
```
Users can name Scene 5 with 9 English letters at most.

1	A	B	C	2	D	E	F	3	G	H	I
4	J	K	L	5	M	N	O	6	P	Q	R
7	S	T	U	8	V	W	X	9	=	Y	Z
				0	Change/ Blank						

STEP-5：Press【ENTER】key to conform.

3-2-3   Call out scenes saved in SUB1 ~ SUB6

STEP-1：Press【FUNC】key, and the LCD will display,

```
→CH    SETTING
  SUB   MASTER
```

STEP-2：Press【▼】key and the arrow will point to the next line,

```
  CH    SETTING
→SUB   MASTER
```

STEP-3：Press【ENTER】key to execute the output of SUB1 ~ SUB6.

```
SUB MASTER 1--6
LITE-PUTER CORP.
```

Press any hot key of【SUB1】~ [SUB6], then the data in SUB1 ~ SUB6 will output 100%.

```
LOAD SUBSCENE 1
```
Users keep on pressing 【SUB1】key

Push【VR1 ~VR6】, then the data will output 0--100%.

```
SUB MASTER 1--6
 SUB1 =    30%
```
Users push【VR1】to the 30%.

3-2-4   Call out scenes saved in SCENE 1 ~ SCENE 40

After doing the [STEP-3] above, please follow next step below：

STEP-4 ：Press【**SC**】key

```
LOAD   SCENE   __
KEYIN   SC 1 … 40
```

STEP-4 ：Use number keys【**0…9**】to enter the number of the desired scene.

```
LOAD   SCENE   5
XY
```

Users entered【5】. The LCD will also show the scene name, but if the users didn't give a name, the second line will be blank.

STEP-4 ：Press【**ENTER**】key to confirm.

```
SUB MASTER 1--6
LITE-PUTER CORP.
```

1.) Push MASTER VR to 100% and SUB 1 VR to 50%, then the total output value of Scene 1 is 50%.
2.) Push MASTER VR to 50% and SUB 1 VR to 50%, then the total output value of Scene 1 is 25%.

3-2-5   Amend the Scenes' data

Following the last example: the channels values of Scene 5 is [CH5 ~ CH20 = 50%]

STEP-1 ：Call out the desired scene. (Please refer to [3-2-3] & [3-2-4]).

STEP-2 ：Press【**CH**】key.

```
CHANNEL MODIFY
CH 1－－－－－= 0%
```

STEP-3：Use number keys【0...9】or【▲、▼】keys to select the desired channel.

```
CHANNEL MODIFY
CH 5－－－－－= 50%
```

STEP-4：Press【AT】key to change the vernier position to the channel value.

```
CHANNEL MODIFY
CH 5－－－－－= 50%
```

STEP-5：Use number keys【0...9】to enter the new output value.

```
CHANNEL MODIFY
CH 1－－－－－= 60%
```

Users entered【6】,【0】

STEP-6：Press【ENTER】key to save the new data.

```
SUB MASTER 1--6
LITE-PUTER CORP.
```

Now the data in Scene5 is [CH6 = 60%，CH7-CH20=50%]

P.S. If users wish to adjust the value of other channels in the same scene, please repeat this function from the first step.

3-2-6 Clear the scenes' output

2 options：

(1). Press【CL】+【SC】at the same time to clear all the values.

(2). Pull【MASTER VR】to the bottom and press the【MASTER】key.

3-3　 Chaser

3-3-1　 Channel chaser setting

Chaser speed：　0.1sec. － 1 min.

There are 21 chaser spped for option: 0.1s , 0.3s , 0.5s , 0.6s , 0.7s , 0.8s , 1s ,
2s , 3s , 4s , 5s , 6s , 7s , 8s , 9s , 10s , 20s , 30s , 40s , 50s , 1min.

STEP-1：Press【**FUNC**】**key**

```
→CH    SETTING
  SUB   MASTER
```

STEP-2：Press【**▼**】key twice.

```
  CH    SETTING
→CHANNEL CHASE
```

STEP-3：Press【**ENTER**】key.

```
CH CHASE  1－ 6
MAS.=100% 0.5sec
```

MAS. is the abbreviation of MASTER

STEP-4：Use number keys【**0...9**】or【**▲ 、 ▼**】keys to set the start channel.

```
CH CHASE  1－ 6
MAS.=100% 0.5sec
```

STEP-5：Press【**ENTER**】key and the vernier will move to the next line.

```
CH CHASE  1－ 6
MAS.=100% 0.5sec
```

STEP-6：Use【▲】or【▼】key to select the speed.

```
CH CHASE   1－ 6
MAS.=100%   1sec
```

Users selected 1sec..

STEP-7：Push 【VR1】~ 【VR6】 to desired level, and chaser will run from CH1 ~ CH6 automatically.

3-3-2　　Change the start channel of chaser

STEP-8：If the users want to change the start channel, such as to set the chaser starts from CH7, press【ENTER】key and the vernier will move to the channel setting position in the first line.

```
CH CHASE   1－ 6
MAS.=100%   1sec
```

STEP-9：Press【7】and the LCD will display：

```
CH CHASE   7－ 12
MAS.=100%   1sec
```

STEP-10：Press【ENTER】and the vernier will move to the chaser speed setting in the second line.

```
CH CHASE   7－ 12
MAS.=100%   1sec
```

STEP-11：Use【▲】or【▼】key to adjust to a proper chaser speed.

```
CH CHASE   7－ 12
MAS.=100% 0.7sec
```

Users adjusted to 0.7sec.

STEP-12 ：Push【VR1】～【VR6】to desired level, and the chaser will run from VR1 ～ VR6.

3-3-3　Setting of Chaser + Scene

'Channel chaser' can be executed with one Scene(as back), and the users can change the output value by using 【MASTER－VR】.

STEP-8 ：After executing a chaser, press【SC】key to call out one scene：

```
LOAD   SCENE   __
KEYIN   SC 1 … 40
```

STEP-9 ：Use number keys【0…9】to enter scene number.

```
LOAD   SCENE   3
KEYIN   SC 1 … 40
```

Users pressed【3】.

STEP-10 ：Press【ENTER】key to confirm.

```
CH CHASE   1－ 6
MAS.=100%   1sec
```

1. **When the value of one channel is lower than the value of the back scene, the output will be the higher one.**
2. **Press【SUB】key and the corresponding channel will output 100%.**
3. **After escaping from chaser mode, the chaser speed will be memorized automatically.**

3-3-4　　Chase Fader

STEP-1：Press【FUNC】key.

```
→CH    SETTING
  SUB   MASTER
```

STEP-2：Press【▼】key 5 times.

```
  AUTO    FADE
→CHASE   FADE
```

STEP-3：Press【ENTER】

```
→ FADE    OFF
   FADE    ON
```

STEP-4：Press【▼】

```
   FADE    OFF
→ FADE    ON
```

STEP-5：Press【ENTER】

```
CH CHASE   1− 6
MAS.=100%   1sec
```

STEP-6：Push【VR1～VR6】to the desired value then the chaser from CH-1 to CH-6 will be fade mode.

```
CH CHASE   1− 6
MAS.=100%   1sec
```

3-3-5   SUB Chaser

STEP-1：Press【**FUNC**】key.

```
→CH   SETTING
  SUB  MASTER
```

STEP-2：Press【▼】three times.

```
  CHANNEL CHASE
→SUB      CHASE
```

STEP-3：Press【**ENTER**】key.

```
→CHASE  1－ 6
  CHASE  3－ 6
```

STEP-4：Press【▼】key.

```
  CHASE  1－ 6
→CHASE  3－ 6
```

'Arrow' will move to the second line.

STEP-4：Press【**ENTER**】key.

```
SUB  CHASE  3－6
MAS.=100%    1sec
```

STEP-5：Use【▲】or【▼】key to adjust the chaser speed.

```
SUB   CHASE  3－6
MAS.=100%    1sec
```

STEP-6：Push【VR1～VR6】to desired value to adjust the output . In this setting, users execute the chase with VR3 –VR6 and control the dimming value of the

pre-set scene with VR1, VR2.

Note: At [STEP-3], if the arrow points to the first line (refer to the display below), then all VR-1 – VR6 operate as the chase.

```
→CHASE  1─ 6
 CHASE  3─ 6
```

Note: The VR positions must be over 5% to execute the corresponding channels joining the chase.

3-4　Auto Fade

3-4-1　Auto fade of individual channel

STEP-1：Press【FUNC】key.

```
→CH   SETTING
 SUB  MASTER
```

STEP-2：Press【▼】key four times

```
 SUB   CHASE…
→AUTO  FADE …
```

STEP-3：Press【ENTER】key and now CH1 will do Auto Fade.

```
AUTO FADE  3sec
CH 1─────>30%
```

This is a changeable value, which shows the current fade value.

STEP-4：Use【▲】or【▼】key to change the channel and AUTO FADE will execute automatically; or to use number keys【0--9】to enter the channel number then press 【ENTER】key to execute the auto fade.

```
AUTO FADE  3sec
CH 2─────>65%
```

User pressed 【▲】key once.

STEP-5：Press【ENTER】key and the vernier will move to the time setting position.

> **AUTO FADE   3sec**
> **CH 2－－－－－>65%**

STEP-6：Use【▲】or【▼】key to adjust the AUTO FADE time.

> **AUTO FADE   20sec**
> **CH 2－－－－－>65%**

User adjusted the time to 20 seconds.

3-4-2   Auto Fade of constant channels

STEP-7：Press【ENTER】key after step 6.

> **AUTO FADE   20sec**
> **CH 2－－－－－>65%**

STEP-8：Now if the users wish to set AUTO FADE from CH3 to CH8, press these three keys【3】【―】【8】

> **AUTO FADE   20sec**
> **CH 2－－－－－>65%**

STEP-9：The the LCD will display as below,

> **AUTO FADE   20sec**
> **CH 3－－   8－> 65%**

STEP-12：Then press【ENTER】key to execute the auto fade.

> Auto Fade speed and Chase speed are separate system, so different speed is allowed.