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Chapter 1. CX-2401 introduction

To change scene quickly.

Do you have the experience?

We are often asked to operate lighting immediately, but the show has finished before you know how to use the console. CX-2401 will be an ideal dimmer console to change the scene quickly and meet your need.

To use conveniently by module design

CX-2401 dimmer console is designed to be a simple and easy operation machine. Because it is absolutely operated by one channel to one channel mode, a big control panel is necessary. Therefore, module design can meet all you need and be used in the big stage or the small club.

Furthermore, Cx-2401 output can be patched to 512 channels through LITE PUTER DP-11 DMX patch panel to make operate easily.

Standard Set 1 Master + 2 Slaves (12 ch. X 2) to control 24 ch.
 Extended Set 1 Master + 2 ~ 7 Slaves (12ch. X 2 ~ 7) to make 10 pieces of dimmer module and control 84 ch.



1-1 CX-2401 features

• DMX signal interface : DMX-512 (512 CH.)

• Channel control :

Standard set: to control 24 ch. Extended set: 7 dimmer modules can be extended at most and control 84 ch.

• 120 Scenes

• Call out the scene quickly by HOT KEY or VR. Standard set: 24 VR & HOT KEY to call out scene 1 ~ 24. Extended set: each dimmer module can call out 12 scenes by VR or HOT KEY and total 120 scenes at most.

• 2 independent cross faders "A" and "B"

• X-FADE

Each program file can be programmed up to 120 steps each step corresponds to a certain scene

• MIDI /AUDIO/ CHASER functions.

1-2 CX-2401 regulation

- Power supply : 100-240VAC / 50-60Hz
- DMX output/input : DMX-512 / 1990 protocol
- DMX output channel : 512 CH.
- DMX connector : XLR 5-pin
- AUDIO input : 200 mV max. Microphone inside.
- Goose neck light conntector : XLR 3pin, DC+12V 250mA.
- Dimension :

 STANDARD:720 x 380 x 90mm (LxWxH)

 MASTER:
 240 x 380 x 90mm (LxWxH)

 OLAV/E
 240 - 200 - 00 - (L-W-H)

SLAVE: 240 x 380 x 90mm (LxWxH)

Chapter 2. CX-2401 module installation

2-1 Standard and extend type

Merit: flexible channel number, easy maintenance and update software. Standard set: to control 24 ch.



Extended set: 7 dimmer modules can be extended at most and control 84 ch.



2-2 MASTER / SLAVE front panel description

CX-2401 consists of mater (right photo) and slave (left photo) parts:





(1) Goose neck light switch	(2) Goose neck connector (DC+12V 250mA)
(3) BLANK switch	(4) LCD display
(5) F1~F4 function key	(6) MASTER VR (clearance key)
(7) ENTER confirmation key	(8) Forth / Back key
(9) CANCEL clearance output key	(10) Master VR for A scene. (VR#A)
(11) Master VR for B scene. (VR#B)	(12) VR for dimming level under AUDIO function.
(13) VR for speed of channel output	(14) X-FADER / clearance key
(15) VR for dimming level under CHASE	(16) VR for channel dimming & scene output.
function.	A1: (CH#1~CH#24)
	A2: (SC#1~SC#24)
(17) HOT KEY #1 ~ HOT KEY #24 Mode A1:dimming level for each channel. Mode A2: quick scene output / FLASH	(18) SPACE: for user's memory.
(19) VR for the dimming output of the scene. A1 / A2: (CH#1~CH#24)	(20) HOT KEY #1 ~ HOT KEY #24 display the dimming level of each channel.

2-3 MASTER/ SLAVE rear panel discription



SLAVE rear panel



- (1) Power Switch
- (3) DMX-512 output
- (5) Midi signal output
- (7) Rs232 D type socket (9 Pin)
- (9) Power and signal connection socket
- (11) Dip switch

- (2) DMX-512 output
- (4) AC power socket:100-240 V AC
- (6) Midi signal input
- (8) Audio socket
- (10) Screws for fixing modules.

Chapter 3. Operation

3-1 A1 & A2

CX-2401 is designed of A1 and A2 modes to change the scene immediately and meet the user's need.



A1

Top line: the channel dimming level of A scene. Bottom line: preset dimming level for B scene.

A2

Top line: to set and call out the scene. Bottom line: display the real dimming output of the scene.

3-2 How to set and execute the scene under "A1" mode

Please confirm the mode (A1 or A2) before using CX-2401.

Under mode A1: A/B scene (24 channels each) can be set dimming level and output the bigger dimming level.

3-2-1. To enter "A1" mode

STEP-1:push master module **"MASTER VR"** to the top. **STEP-2**:press **F1** to chooce **MODE A1.**

NOW IS MODE A1 SURE TO MODE A1?

STEP-3:press ENTER to confirm.

3-2-2. To set dimming level for A/B scenes

- **STEP-1**: Push slave module VR on top line to ideal dimming level.
- **STEP-2**: Push slave module VR on bottom line to ideal level.
- **STEP-3**: Push master module **VR#A** (on top line) to the top.

3-2-3. To execute A/B scene cross fader

Pull **VR#A** down to the bottom (0% output) and push **VR#B** up to the top (100% output) at same time.

3-3 How to set and execute the scene under "A2" mode

3-3-1. To enter "A2" mode

STEP-1: Push **"MASTER VR"** to the top. **STEP-2**: Press **F2** to choose **MODE A2**.

NOW IS MODE A2 SURE TO MODE A2?

STEP-3: Press ENTER to confirm.

3-3-2. Setting the scene

120 scenes can be set and 24 HOT KEY & VR for calling out scene 1-24 immediately.

Method 1 : to set scene 1-24 by F4 function key

120 scenes can be set at most.

STEP-1: push master module VR#A & VR#B to the top.

STEP-2:push slave module **SC#1~SC#24** (top line) and **CH#1~CH#24** (bottom line) to ideal dimming level.

STEP-3:press **F4** to choose the scene. ▲: forth 1 scene ▼: back 1 scene **≤**: forth 1 scene **STEP-3**: back 10 scenes



STEP-4:press **ENTER** to confirm.

Method 2 : to set scene 1-24 by HOT KEY

Eg. Save many scenes and channels in scene1.

STEP-1:push master module VR#A 與VR#B to the top.

STEP-2: push slave module SC#1~SC#24 and CH#1~CH#24 to ideal dimming level.

9

STEP-3:press master module **F4 (REC.)**, and then press slave module **HOT KEY** under SC#1.

RECORD TO : 1 Press $\checkmark \lor$ +-1 $\checkmark \lor$ +-

Scene1 setting will be finished when Lcd displays the initial monitor.

NOW IS MODE A2 CX-2401 Ver: 1.0

3-3-3. To execute the scene

EG. : How to call out scene1

Method 1 : push SC#1~SC#24 (dimming output)

Push **SC#1** to call **scene 1**(0%~100%), and the led (bottom line) will display the channels of scene1.

Method 2 : call out by HOT KEY#1 ~ #24 (switch output)

Press **HOT KEY #1 ~ #24** (top line) to call out scene 1 (switch output) and leave the key to stop output.

3-4 How to "stop" all the output for a while

Please press **BLANK** key.

3-5 How to "clear" all the output

STEP-1:pull all slave module channels down to the bottom.

STEP-2:pull **"MASTER VR**" down to the bottom, and then press **MASTER** to clear all channels ouput. (p.s. it is exceptional under x-fade & chase functions.)

3-6 "CHASER" TYPE

3-6-1. Call out the scenes to choose chasing type

Under A1 mode : single channel chasing

STEP-1:to confirm A1 mode. (refer to 3-2-1)

STEP-2:push master module **CHASE VR** to the ideal lighting level.

STEP-3: push master module SPEED VR to the ideal speed.

STEP-4:push" **VR#A**"down to the bottom.

STEP-5: push slave module CH#1 ~ CH#24 for your need. (channel 1~ channel 24)

Under A2 mode : scenes chasing

STEP-1:to confirm A2 mode.(refer 3-3-1)

STEP-2:push master module **CHASE VR** to the ideal lighting level.

STEP-3:push master module **SPEED VR** to the ideal speed.

STEP-4:push **VR#A** down to the bottom.

STEP-5: push slave module SC#1 ~ SC#24 for your need. (scene1~scene24)

3-6-2. Chasing controlled by audio

Under A1 mode :

STEP-1:to confirm A1 mode. (refer to 3-2-1)

STEP-2: push **CHASE VR** to the ideal lighting level.

STEP-3: pull SPEED VR down to the bottom.

STEP-4: push AUDIO VR to the top.

STEP-5: push slave module CH#1 ~CH#24 for your need. (channel 1 ~channel 24).

Under A2 mode :

STEP-1:to confirm A2 mode. (refer to 3-3-1)

STEP-2:push master module **CHASE VR** to the ideal lighting level.

STEP-3: pull master module SPEED VR down to the bottom.

STEP-4: push AUDIO VR up to the top.

STEP-5: push slave module SC#1 ~ SC#24 for your need. (scene 1~ scene 24).

3-6-3. Chasing controlled by MIDI

Output is controlled only by MIDI.

3-7 How to stop chasing

Pull "CHASE VR" down to the bottom.

3-8 Scenes X-FADE

3-8-1. Setting "X-FADE"

EG.: STEP 1 = SCENE 2 STEP 2 = SCENE 4 STEP 3 = SCENE 6	
or 🔽 : choose previous step or next step.	
✓ or ►: choose previous scene or next scene.	
<pre>STEP-1:press F3, to set scene steps. 1.XFADE EDIT Press ▼ KEY Sel STEP-2:press ENTER to confirm. 1.XFADE EDIT</pre>	
STEP 1 = SC 1 12 Lite-Puter	

STEP-3:press
1.XFADE EDIT STEP 1 =SC 2
STEP-4:press
1.XFADE EDIT STEP 2 =SC 2
STEP-5:press ► two times
1.XFADE EDIT STEP 2 =SC 4
STEP-6:press
1.XFADE EDIT STEP 3 =SC 4
STEP-7 :press ► two times to finish setting.
1.XFADE EDIT STEP 3 =SC 6
STEP-8:press ENTER to confirm.

3-8-2. Executing "X-FADE"

The same example as above :

To display scene 2, scene 4 and scene 6 dimming output by pressing X-FADE VR.

STEP-1: push "X-FADE VR" up to the top to output scene 2. (step 1)
STEP-2: pull "X-FADE VR" down to the bottom to output scene 4. (step 2)
STEP-3: push "X-FADE VR" up to the top to output scene 6. (step 3)

3-8-3. Stop "X-FADE"

Pull **"X-FADE VR**" down to the bottom and then press **HOT KEY** to stop x-fade output.

3-9 Additional functions to **F3** function key.

Press F3 and then press \blacktriangle or \bigtriangledown to choose the functions.

3-9-1. Edit "X-FADE"

Referring 3-8

3-9-2. Setting channel level correspond to MIDI.

Basic MIDI format includes:

(Correspond to different kinds of musical instrument)
(TONE) (From 0 to 127)
(VELOCITY) (From 0 to 127)

MIDI IN function : call out 120 scenes by "TONE".

MIDI interface can send out 16 different kinds of musical effect by installing different level on **CHANNEL** (1-16). As a result of that, the MIDI-CHANNEL level in CX-2401 has to be corresponding to the CHANNEL level of MIDI interface, then CX-2401 can receive the data correctly from MIDI interface.

TONE can send 128 different kinds of digital code to CX-2401, which will divide 128 TONE into **120 MIDI MEMORY**, and each of those represents a **"SCENE"**.

STEP-1:press **F3** and then press three times.



3-9-3. To set "scene" level corresponding to "tone"



STEP-3: press \blacktriangle or \bigtriangledown to change tone level and press \triangleleft or \blacktriangleright to change scene level.

STEP-4:press ENTER to confirm.

3-9-4. To set LCD background lighting level.

STEP-1:press **F3**, and press four times.

4.LCD BACKGROUND Press ▲ ▼KEY Sel

STEP-2: press **ENTER**, and then press \blacktriangle or \bigtriangledown , to adjust background lighting level.

4.LCD BACKGROUND LIGHTLY

4.LCD BACKGROUND BLACKLY

3-9-5. Inspection

Step-1:press **F3**, and press five times.

5.E2M DATA INIT. Press ▲ ▼KEY Sel

p.s. the function is for Q.C. inspection.

CX-2401 [EUM-C]