CHAUVET®

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STAGE DESIGNER

TFX-24C

User Guide

Please read these instructions carefully before use

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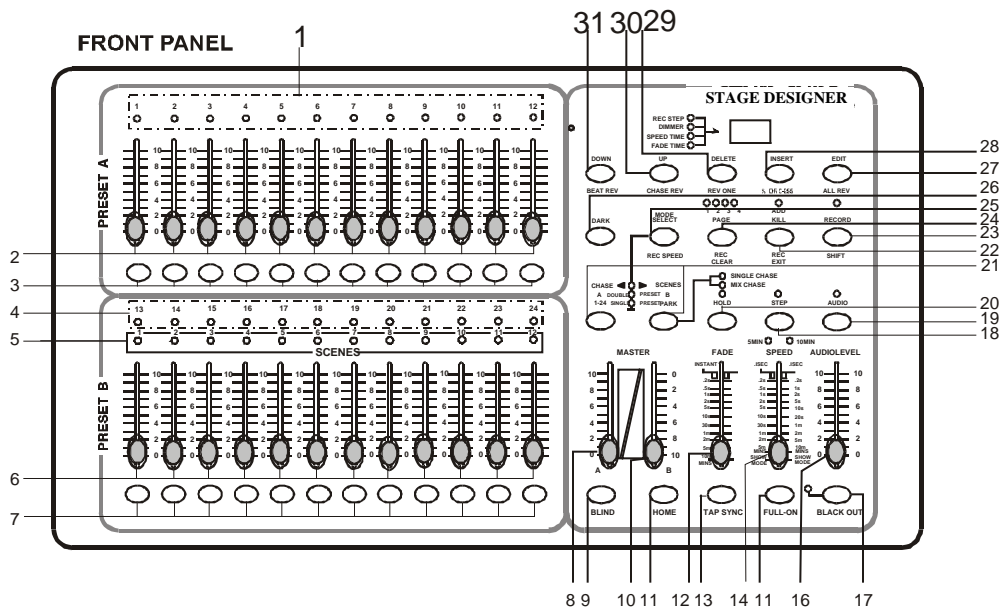**www.ChauvetLighting.com**

SCENE SETTER USER MANUAL

INTRODUCTION:

Congratulations on purchasing your new scene setter. It is a microprocessor controlled system that is fully DMX-512 and MIDI compatible. The scene setter is a 24 channel DMX-512 and standard MIDI controller.48 sets of program can be programmed in 4 pages and the total steps can not more than 4500. We strongly recommend that you take time to read this manual fully before you attempt to use the controller. we are sure that it is the most advanced unit for its size and price and it will provide you easy operation and tremendous control power.

SPECIFICATIONS:

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POWER INPUT----------------------------------------------------------------DC12V-18V  500mA.
DMX OUTPUR----------------------------------------------------------------3Pin FEMALE XLR
MIDI SINGLE----------------------------------------------------------------5Pin DIN
FUSE (internal)----------------------------------------------------------F0.5A  250V  5x20mm
 DIMENSION----------------------------------------------------------------482X264X85MM
ADAPTOR----------------------------------------------AC ~230V 50Hz ,DC 12V,500mA
                                                    ( AC ~120V 60Hz,DC 12V,500mA)
 WEIGHT----------------------------------------------------------------4.8KG
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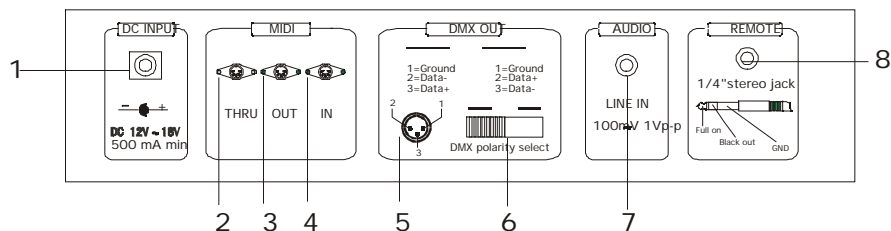
CONTROLLER DESCRIPTION:

1. PRESET A LEDS.
2. CHANNEL SLIDERS 1-12: these sliders will adjust the output of 1 to 12 channel from 0 to 100% or 0 to 255.
3. Flash key 1-12: press to activate maximum channel output.
4. PRESET B LEDS.
5. SCENES LEDS.
6. CHANNEL SLIDERS 2-24: these sliders will adjust the output of 1 to 12 channel from 0 to 100% or 0 to 255.
7. Flash key 13-24: press to activate maximum channel output.

8. MASTER A SLIDER: the slider will adjust the output of preset A.

9. BLIND KEY: in CHASE ◁ ▷ SCENES , this key ,when activated , the output of each channel will be controlled only by slider or flash key.

10. MASTER B SLIDER: the slider will adjust the output of preset B..

11. HOME KEY: in CHASE ◁ ▷ SCENES , this key ,when activated , the output of each channel will be come back from controlled by slider or flash key to controlled by program.

12. FADE TIME SLIDER: move to adjust fade time.

13. TAP SYNC: in AUTO CHASE ,press it twice to define chasing speed.

14. SPEED SLIDER: move to adjust chasing speed.

15. FULL ON KEY: when activated ,whole channel output will be maximum and disable BLACK OUT.

16. AUDIO LEVEL SLIDER: move to adjust the sensitivity of audio.

17. BLACK OUT KEY: the key will force all DMX to "0".

18. STEP KEY: press it once and the program go one step.

19. AUDIO KEY: press it to get into audio control.

20. HOLD KEY: press and hold it, whole output will be hold.

21. PARK: in CHASE ◁ ▷ SCENES mode, press it to select SINGLE CHASE or MIX CHASE.
     In DOUBLE PRESET ,pressing PARK B is same as MASTER B at the maximum.
     In SINGLE PRESET ,pressing PARK A is same as MASTER A at the maximum..

22. REC EXIT: exit record. When the LED is lighting, it is in KILL, press any one of of all channel FLASH and all output is zero except the one channel.

23. RECORD KEY: press it to record the step of program..

24. PAGE KEY: press it to select desired SCENE program in appropriate page.

25. MODE SELECT: By pressing the key you can select CHASE ◁ ▷ SCENES DOUBLE RESET or SINGLE PRESET.

26. DARK KEY: press it to pause whole output, including FULL ON and FLASH.

27. ALL REV: the key ,when activated ,will revers chasing direction of all program.

28. 0% OR 0-255 KEY: press it to select 0% or 0-255 on DISPLAY.

29. REV ONE: press and hold the key, then press any one of PRESET B .the SCENE program will chase in reversed direction.

30. CHASE REV: the key will reversed the SCENE program chase direction controlled by slider of speed.

31. BEAT REV: the key will reversed the SCENE program chase direction controlled by regular beat.

REAR PANEL

1. POWER INPUT: DC 12-18V, 500mA MIN.
2. MIDI THRU: Use to transmit MIDI data received on the MIDI IN connector.
· 3. MIDI OUT :   transmit MIDI data originated by itself.
4. MIDI IN: received MIDI data.
5. DMX OUT: DMX output.
6. DMX POLARITY SELECT: select the polarity of DMX output.
7. AUDIO INPUT: line in music single.100mV-1Vpp.
8. REMOTE CONTROL: FULL ON and BLACK OUT are remote controlled using 1/4" stereo jack.

OPERATING INSTRUCTION:

RECORDING:

1. RECORD ENABLE
1) Press and hold RECORD KEY.
2) Press FLASH 1 FLASH 5 FLASH 6 FLASH 8 keys in sequence.
3) Release RECORD, the led is lighting, recording is ready.

2. ERASE ALL PROGRAMS
1) Press and hold RECORD KEY.
2) Press FLASH 1 FLASH 3 FLASH 2 FLASH 3 in sequence.
3) Release RECORD

3. CLEAR MEMORY
1) Press RECORD key, and then press REC CLEAR KEY.
2) Release RECORD and REC CLEAR at a time.

4. RECORD PROGRAM
1) Set desired channel and record it.
2) Light the relevant page led.
3) Press RECORD then press appropriate FLASH.
4) Release RECORD.
For example: create a program ,record it in the 28th SCENE.
1) clear memory.
2) light 1-24 SINGLE LED
3) set channel slider 1-24 to min. position and MASTER A to max. position.
4) move slider 1 to max. Position, press RECORD then move it to
   min. Position. Continue moving other sliders until all sliders are set.
5) press PAGE key to light page 3 led.
6) press RECORD ,then press FLASH 16.
7) Release RECORD and FLASH 16, the program of 1-24 full on in sequence
   is recorded in the 28th SCENE.

5. DELETE A PROGRAM
1) Press PAGE to light the desired PAGE LED.
2) Press RECORD, then press appropriate FLASH twice.
For example: to delete the 40th SCENE program .
1) press PAGE to light page 4 led.
2) press RECORD ,then press FLASH 16 twice.
3) release RECORD.

6. SCENE EDIT ENABLE
1) Press PAGE light desired PAGE led.
2) Press MODE SELECT to light led CHASE ◁ ▷ SCENES
3) Press EDIT and desired scene FLASH.
4) Release EDIT and the FLASH, the relevant SCENE LED is lit and others
   go out. Now editing is enable.

For example : to make the 11th SCENE program enter EDIT mode .

1) press PAGE to light PAGE 1 led.
2) press MODE SELECT to light led CHASE ◁ ▷ SCENES
3) Press EDIT and FLASH 23.
4) Release EDIT and FLASH 23.

7. EXIT EDIT MODE
1) Press RECORD ,then press EXIT.
2) Release RECORD and EXIT.

8. DELETE STEP
1) In EDIT mode ,press STEP to execute the program till the step to be deleted.
2) Press DELETE . The step is deleted and the next step is executed.

9. ADD STEP
1) In EDIT mode .record the step to be inserted.
2) Press STEP to execute the program till the step you want to insert before.
10. MODIFY STEP
1) In EDIT mode. Press STEP to execute the program till the step to be modify.
2) press UP or DOWN and desired FLASH ,the output will show on display ,you feel it is ok ,release FLASH.
11. CHANGE SHOWING MODE OF DIMMER Press and hold RECORD, then press 0%or0-255 KEY.
12. SELECT AND RUN PROGRAM
1) Press MODE SELECT to light CHASE ▷ SCENES
2) Press PAGE to light the desired page led.
3) Move MASTER B slider to max. Position.
4) Move desired scene channel slider to min.,then move it up,the program is selected and executed.
13. RUN A PROGRAM WITH REGULAR BEAT
1) Press AUDIO to extinguish AUDIO led.
2) Press PARK to light MIX MODE LED.
3) Select to run the scene program.
4) Move the SPEED slider or press TAP SYNC twice to define beat time.
5) Press REC SPEED and the desired FLASH KEY. Then the program will be executed with the beat time.
14. RUN A PROGRAM WITH SPEED SLIDER.
1) Press AUDIO to extinguish AUDIO led.
2) Press PARK to light MIX MODE led.
3) Select to run the scene program.
4) Move SPEED slider to SHOW MODE position.
5) Press REC SPEED, then press the appropriate FLASH.
   For example: run the 14th SCENE program with the speed of 1 steps
        per second, then set it to be controlled by speed slider.

1)Press MODE SELECT to light CHASE ▷ SCENES
2)Press AUDIO to extinguish its led.
3)Press PARK to light MIX MODE LED.
4)Move all channel sliders to min. Position.
5)Move MASTER B slider to max. Position.
6)Press PAGE to light PAGE 2 LED.
7)Move the 14th channel slider to max. Position.
8)Move SPEED slider until 1.00 appear in display and SPEED LED is lit.
9)Press REC SPEED and FLASH 14, then release both keys, the 14th SCENE program is set to run 1 step per second.
10)Move SPEED slider to SHOW MODE position. Press REC SPEED and the 14th FLASH , then the 14th SCENE program is set to be controlled by SPEED slider, move SPEED slider until 0.10 appears on display, the 14th program will run with 10 steps per second.
15.SPEED SETTING
  A: SLOWEST SPEED SLIDER SETTING(5 MIN)
   1)Press and hold RECORD .
   2)Press the 5th FLASH KEY 3 times, then release RECORD.
   3)The 5 MIN LED is lit, which means that 5 MIN SPEED slider is done.
  B: SLOWEST SPEED SLIDER SETTING(10 MIN)
   1)Press and hold RECORD .
   2)Press the 10th FLASH KEY 3 times, then release RECORD.
   3)The 10 MIN LED is lit, which means that 10 MIN SPEED slider is done
16.MIDI IN SETTING
   1)Press and hold RECORD
   2)Press 1th FLASH KEY 3 times, then release RECORD, when CHI appears on display, you can select MIDI IN channel from 1th FLASH to 16th FLASH.
   3)After you press desired FLASH, the appropriate channel led is lit.
   4)Press RECORD and EXIT to withdraw MIDI IN setting.

17.MIDI OUT SETTING
  1)Press and hold RECORD
  2)Press 2th FLASH KEY 3 times, then release RECORD, when CHO appears on
    display, you can select MIDI IN channel from 1th FLASH to 16th FLASH.
  3)After you press desired FLASH, the appropriate channel led is lit.
  4)Press RECORD and EXIT to withdraw MIDI OUT setting.
18.RECEIVE FILE DUMP
  1)Press and hold RECORD
  2)Press 3th FLASH KEY 3 times, then release RECORD, when IN appears on
    display, it is ready to receive file dump.
  3)All other operations are void when receiving file dump. It will
    withdraw receiving file dump automatically when receiving is over or
    mistakes is occurred. Power on after power off also pause receiving file dump.
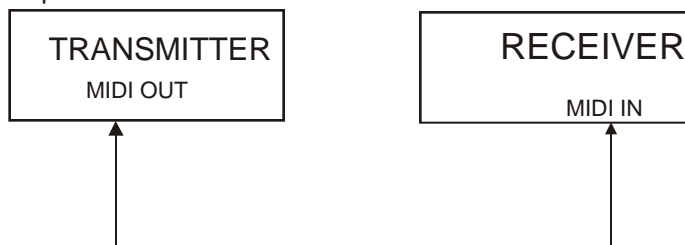
19.send file dump
  1)Press and hold RECORD
  2)Press 4th FLASH KEY 3 times, then release RECORD, when OUT appears on
    display, it is ready to receive file dump.
  3)All other operations are void when receiving file dump. It will
    withdraw sending file dump automatically when sending is over or
    mistakes is occurred. Power on after power off also pause receiving file dump.

20. DETAILED DESCRIPTION
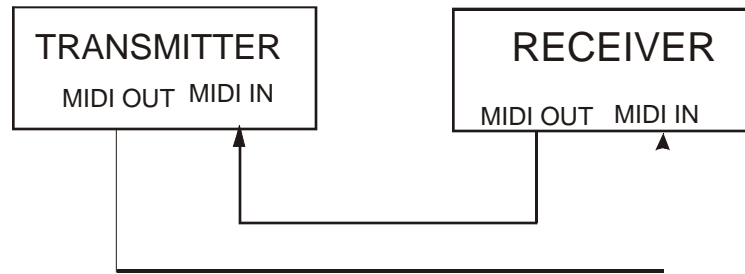 1)FADE TIME: The period that output varies from full dimmer to zero or
                from zero dimmer to full dimmer.
  2)SINGLE MODE: SCENE program is executed one by one and the N0.is showing
                on display. Its speed is controlled by SPEED slider.
  3)MIX MODE : All selected program are executed synchronously, each is
                allowed to have respective chasing speed.

  4) When CHASE , SCENES , you can select scene program using
    PRESET B channel sliders. BLIND one of PRESET B channels, the
    appropriate channel slider together with MASTER A slider control its
    output, and the maximum dimmer of the program is maintained until you
    HOME the channel.
  5) FADE TIME & SPEED TIME INDICATIONS
    A: when time is more than 1 minute, the indication includes two dots.
    For example:1 minute past 15 second, indicate 1.15.
            Half past 4 minute, indicate 4.30.
            10 minute, indicate 10.0.
    B: when time is less than 1 minute, the indication has one dot only.
    For example:11.5 second, indicate 11.5
            1.2 second , indicate 1.2
            0.55 second ,indicate 0.55

  6) transmit and receive file
    A: open loop mode:

```
  ┌─────────────────┐        ┌─────────────────┐
  │  TRANSMITTER    │        │   RECEIVER      │
  │    MIDI OUT     │        │                 │
  │                 │        │    MIDI IN      │
  └────────▲────────┘        └────────▲────────┘
           │                          │
           └──────────────────────────┘
```

B: closed loop mode:

```
┌─────────────────────┐        ┌─────────────────────┐
│     TRANSMITTER      │        │      RECEIVER       │
│  MIDI OUT  MIDI IN   │        │  MIDI OUT  MIDI IN  │
└─────────────────────┘        └─────────────────────┘
```

NOTE: when sending file dump in open loop mode, you should set
up receiving mode for the receiver, otherwise receiving is
disable

7) When the power voltage is too low ,the display show LOP, now you should
check whether the power is OK. It is normal that LOP is appeared for a
short while just after power is turned on.

20. MIDI RUN

1) If MIDI data is not received within 10 minutes, the channel and program
turned on by MIDI will be cleared.

2) When sending or receiving file dump, the device ID is 55H. All
information (include System Exclusive)is sent or received in file dump.
You can send SCENE program to storage or another unit, you can also
receive SCENE program from storage or another unit.

3) this unit sends or receives NOTE information ,relevant functions is as
follows:

NOTE NUMBER	VELOCITY	FUNCTION
22-69	PROGRAM MASTER	TURN ON/OFF PROGRAM 1-48
70-93	CHANNEL DIMMER	TURN ON/OFF CHANNEL 1-24
94		FULL ON
95		DARK
96		HOLD
97		TURN ON/OFF AUDIO CHASE
98		CHASE ◁ ▷ SCENES
99		DOUBLE PRESET MODE
100		SINGLE PRESET MODE
101		STEP CHANGE
102		BLACK OUT

Replacing Fuses

If the unit does not function when plugged in ie. items plugged into unit do not operate, then it is likely that a fuse has blown.

Unplug unit before attempting to replace fuses.

In order to replace the fuse, unscrew the "Fuseholder Cover" to reveal the fuse.
The unit has a label attached which indicates the correct fuse rating or you may refer to the Technical Specifications
 section of this guide. It is most important that replacement fuses are of the correct rating.
Failure to use the correct fuse could damage the unit beyond economic repair.
the fuseholder and the screw cap replaced. It is now safe to plug the unit back in.

Cleaning

The body of the unit may be cleaned with a soft damp cloth. We recommend internal cleaning be carried out by a fully qualified technician.

Maintenance & Servicing

Work on internal parts should be carried out by a qualified technician. Removal of any covers other than the "Fuseholder" is considered a breach of warranty an will not be covered under any such agreement unless authorized by CHAUVET.

Troubleshooting

• If the unit is not functional - check that unit is fully plugged in and then check fuses.

No user serviceable parts inside, please refer to CHAUVET for service.

USA
Technical Assistance: 1-800-762-1084 (954) 929-1115
E-Mail tech@chauvetlighting.com

POWER	120V~/60Hz / 230V~50Hz
INTERNAL FUSE	5mm x 20 mm F500mA 250v
DIMENSION	19in x 10.4in x 3.3in 463mm x 254mm x 81mm
WEIGHT	7.92lbs / 8.14kg

User Information (Please complete for your records)

Date Purchased: /   /   Serial No: _____

Dealer Stamp   **Model: TFX-24C**