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# LIGHTRONICS TL Series TL4008 Memory Control Console Owner's Manual

**Contents**

LIGHTRONICS TL Series TL4008 Memory Control Console

## Product Information

| Product Name | TL4008 MEMORY CONTROL CONSOLE |
|---|---|
| Manufacturer | Lightronics Inc. |
| Version | 1.7 |
| Date | 06/28/2022 |
| Operating Modes | 8 or 16 depending on mode |
| Number of Channels | 8 CH x 2 manual scenes or 16 CH x 1 manual scene or 8 CH and 8 recorded scenes |
| Scene Memory | 8 scenes total |
| Chase Control Protocol | Standard DMX512 (Optional LMX-128 multiplex) |
| Output Connector | 5 pin female XLR for DMX (Add on 3 pin XLR for LMX) |
| Compatibility | DMX512 and LMX-128 protocol compatible with other multiplex systems |
| Power Input | 12 VDC, 1 Amp external power supply provided |
| Dimensions | 10.25W X 9.25D X 2.5H |
| Weight | 4.4 Pounds |

## Product Usage Instructions

### Installation

The TL4008 control console should be kept away from moisture and direct sources of heat.

The TL4008 may be powered by an external supply with the following specifications:

- Output Voltage: 12 VDC
- Output Current: 800 Milliamps minimum
- Connector: 2.1mm female connector
- Center Pin: Positive (+) polarity

**DMX Connections**

Connect the unit to a DMX Universe using a control cable with 5 pin XLR connectors. An external power supply must be used if only DMX is used. A 3 pin XLR connector for DMX instead of a 5 pin XLR is an option when ordering.

**DMX 5 Pin/3 Pin Connector Wiring**

| PIN # | PIN # | SIGNAL NAME |
|-------|-------|-------------|
| 1 | 1 | Common |
| 2 | 2 | DMX data – |
| 3 | 3 | DMX data + |
| 4 | – | Not Used |
| 5 | – | Not Used |

**LMX Connections (If applicable)**

Connect the unit to a Lightronics (or compatible) dimmer using a multiplex control cable with 3 pin XLR connectors. The TL4008 can be powered by the dimmer which it is connected to. It may also be powered via the provided external power supply. The unit will operate with dimmers in both the NSI/SUNN and Lightronics modes. All dimmers connected to the LMX connection MUST be in the SAME mode.

**LMX-128 Connector Wiring**

| PIN # | SIGNAL NAME |
|-------|-------------|
| 1 | Common |
| 2 | Phantom power from dimmers (Normally +15 VDC) |
| 3 | LMX-128 multiplex signal |

**Buttons and Indicators**

**Chase 1 & 2 Buttons**

Press to select chase patterns. The chase LED will light when the chase is active.

# Chase Rate Button

Press 3 or more times at the desired rate to set chase speed.
Chase rate LED will flash at the selected rate.

**Blackout Button**

Pressing button causes all channels, scenes, and chases to go to zero intensity. The blackout LED will light whenever the console is in blackout mode.

**Blackout Indicator**
Lights when blackout is active.

**Record Button**
Press to record scenes and chase patterns. Record LED will flash when in record mode.

**Record Indicator**
Flashes when chase or scene recording is active.

## MEMORY CONTROL CONSOLE

### OWNER'S MANUAL

### Number of channels

- 8 or 16 depending on mode

### Operating modes

- 8 CH x 2 manual scenes
- 16 CH x 1 manual scene
- 8 CH and 8 recorded scenes

### Scene memory

- 8 scenes total

### Chase

- 2 programmable 40 step chases

### Control protocol

- Standard DMX512
- Optional LMX-128 (multiplex)
- Output connector 5 pin female XLR for DMX
- Options Add on 3 pin XLR for LMX
- Sole 3 pin XLR for DMX

### Compatibility

- DMX512
- LMX-128 protocol compatible with other multiplex systems

**Power input**

- 12 VDC, 1 Amp external
- power supply provided

**Dimensions**

- 10.25″W X 9.25″D X 2.5″H

**Weight**

- 4.4 Pounds

The LMX-128 option is not able to be combined with the 3 pin XLR for DMX option.
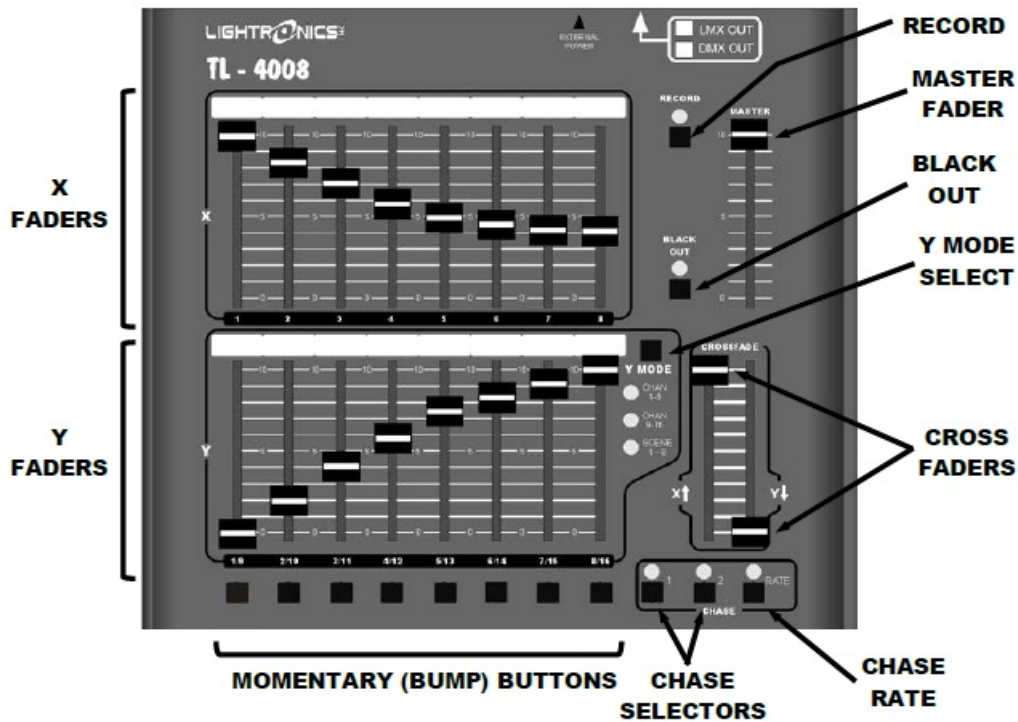
## INSTALLATION

The TL4008 control console should be kept away from moisture and direct sources of heat.
The TL4008 may be powered by an external supply with the following specifications:

- **Output Voltage:** 12 VDC
- **Output Current:** 800 Milliamps minimum
- **Connector:** 2.1mm female connector
- **Center Pin:** Positive (+) polarity

**DMX CONNECTIONS:** Connect the unit to a DMX Universe using a control cable with 5 pin XLR connectors. An external power supply must be used if only DMX is used. A 3 pin XLR connector for DMX instead of a 5 pin XLR is an option when ordering.

**DMX 5 PIN/3 PIN CONNECTOR WIRING**

| PIN # | PIN # | SIGNAL NAME |
|-------|-------|-------------|
| 1 | 1 | Common |
| 2 | 2 | DMX data – |
| 3 | 3 | DMX data + |
| 4 | – | Not Used |
| 5 | – | Not Used |

**LMX CONNECTIONS:** (If applicable) Connect the unit to a Lightronics (or compatible) dimmer using a multiplex control cable with 3 pin XLR connectors. The TL4008 can be powered by the dimmer which it is connected to. It may also be powered via the provided external power supply. The unit will operate with dimmers in both the NSI/SUNN and Lightronics modes. All dimmers connected to the LMX connection MUST be in the SAME mode.

**LMX-128 Connector Wiring**

| PIN # | SIGNAL NAME |
|---|---|
| 1 | Common |
| 2 | Phantom power from dimmers Normally +15 VDC |
| 3 | LMX-128 multiplex signal |

If both DMX and LMX are installed, the TL4008 will transmit both DMX and LMX simultaneously.

## OPERATION

### INDICATION AND CONTROLS

- **X Faders:** Controls individual channel levels for channels 1-8.
- **Y Faders:** Controls levels of scenes or individual channels depending on current 'Y' operating mode.
- **Y Mode Button:** Selects operating mode of Y faders.
- **Y Mode Indicator:** Indicates current operating mode of Y faders.

**Cross Faders:** These provide the ability to fade between the upper (X) faders and lower (Y) faders. The cross fade function splits into two parts giving you the ability to control the level of the upper and lower groups of faders

individually. In all modes, the X cross fader must be UP to activate the upper faders and the Y cross fader must be DOWN to activate the lower faders.

- **Master:** Controls the output level of all functions of the console.
- **Bump Buttons:** Activates channels 1 through 8 while pressed. The master fader affects the level of channels activated by the bump buttons. The bump buttons do not activate scenes.
- **Chase Select:** Turns chases on and off.

[www.lightronics.com](www.lightronics.com)

- **Chase 1 & 2 Buttons:** Press to select chase patterns. The chase LED will light when the chase is active.
- **Chase Rate Button:** Press 3 or more times at the desired rate to set chase speed. Chase rate LED will flash at the selected rate.
- **Blackout Button:** Pressing button causes all channels, scenes and chases to go to zero intensity. The blackout LED will light whenever the console is in blackout mode.
- **Blackout Indicator:** Lights when blackout is active.
- **Record Button**: Press to record scenes and chase patterns. Record LED will flash when in record mode.
- **Record Indicator**: Flashes when chase or scene recording is active.

### 'Y' OPERATING MODES
The TL4008 has three different modes concerning the Y faders. Pressing the "Y MODE" button changes the function of the Y (lower eight) faders. The selected mode is indicated by the Y mode LEDs. The X (upper eight faders) ALWAYS control the level of channels 1 through 8. The three operating Y modes are:

- **CHAN 1 – 8:** Both the X and Y rows of faders control channels 1 through 8. The cross fader is used to transfer control between X and Y.
- **CHAN 9 – 16**: Y faders control channels 9 through 16.
- **SCENE 1 – 8:** Y faders control the intensity of 8 recorded scenes.

### INITIAL SETUP
Chase Reset (Resets chases to the factory programmed defaults): Remove power from the unit. Hold down the CHASE 1 and CHASE 2 buttons. Apply power to the unit while holding these buttons down. Continue to hold down the buttons for approximately 5 seconds, then release.

**Scene Erase (Clears all scenes):** Remove power from the unit. Hold down the RECORD button. Apply power to the unit while holding this button down. Continue to hold down the button for approximately 5 seconds, then release.
You should check the address settings of the dimmers before proceeding with TL4008 operation.

### Version 1.7 RECORDING CHASES

1. Press the "RECORD" button, the record LED will flash.
2. Press the "CHASE 1" or "CHASE 2" button to select a chase to record to.
3. Use the channel faders to set the channel(s) you want to be ON in this step to full intensity.
4. Press the "RECORD" button to save the step and move to the next step.
5. Repeat steps 3 and 4 until all desired steps are recorded (up to 40 steps).
6. Press the "CHASE 1" or "CHASE 2" button to exit from the chase record mode. *Not required if all 40 steps

have been recorded.

**CHASE PLAYBACK**

1. Press the "RATE" button 3 or more times at the desired rate to set the chase speed.
2. Press "CHASE 1" button or "CHASE 2" button to turn chases on and off.

   **Note:** Both chases may be on at the same time. If chases have a different number of steps, complex changing

   patterns can be created.

**RECORDING SCENES**

1. Activate either the "CHAN 1– 8" or "CHAN 9-16" Y mode options and create the scene to be recorded by

   setting the faders to the desired levels.
2. Press "RECORD".
3. Press the bump button below the Y fader you wish to record the scene to.

**Note:** Scenes may also be recorded in the "SCENE 1-8" mode. This enables you to copy a scene to another or quickly create modified versions of scenes. Recording occurs even if BLACKOUT is on or the master fader is down.

**SCENE PLAYBACK**

1. Activate the "SCENE 1-8" Y mode option.
2. Bring up a fader on the lower row (Y fader) that has had a scene recorded to it.

**Note:** The "Y" cross fader must be DOWN to use the lower (Y) faders.

## QUICK START INSTRUCTIONS

The bottom cover of the TL4008 contains brief instructions for scenes and chases. The instructions are not intended as a substitute for this manual and should be viewed as "reminders" for operators who are already familiar with TL4008 operation.

## MAINTENANCE AND REPAIR

**TROUBLESHOOTING**

1. Check that the DMX/LMX cable is not defective.
2. To simplify troubleshooting – reset the unit to provide a known set of conditions.
3. Make sure the dimmer address switches are set to the desired channels.

**OWNER MAINTENANCE**
The best way to prolong the life of your TL4008 is to keep it dry, cool, clean and covered when not in use.
The unit exterior may be cleaned using a soft cloth dampened with a mild detergent/water mixture or a mild spray-on type cleaner. DO NOT SPRAY ANY LIQUID directly on the unit. DO NOT IMMERSE the unit in any liquid or allow liquid to get into the controls. DO NOT USE any solvent based or abrasive cleaners on the unit.
The faders are not cleanable. If you use a cleaner in them – it will remove the lubrication from the sliding surfaces. Once this happens it is not possible to re-lubricate them.

The white strips above the faders are not covered by the TL4008 warranty. If you mark on them with any permanent ink, paint etc. it is likely that you will be unable to remove the markings without damaging the strips. There are no user serviceable parts in the unit. Service by other than Lightronics authorized agents will void your warranty.

**OPERATING AND MAINTENANCE ASSISTANCE**
Dealer and Lightronics personnel can help you with operation or maintenance problems. Please read the applicable parts of this manual before calling for assistance. If service is required – contact the dealer from whom you purchased the unit or contact Lightronics Service Dept., 509 Central Drive, Virginia Beach, VA 23454 TEL: (757) 486-3588.

**WARRANTY INFORMATION AND REGISTRATION – CLICK LINK BELOW**
**www.lightronics.com/warranty.html**

## Documents / Resources



**LIGHTRONICS TL Series TL4008 Memory Control Console** [pdf] Owner's Manual
TL4008 Memory Control Console, TL4008, Memory Control Console, Control Console, Console

## References

- ⊘ **Lightronics - Complete Lighting and Control Systems**
- ⊘ **Lightronics Lighting Control Product Warranty Information**