# *Lightronics*
### *Stage Control*

# TL - 1608

## MEMORY CONTROL CONSOLE

## OWNERS MANUAL

VERSION 2.1

## SPECIFICATIONS

| | |
|---|---|
| Number of channels | 16 or 8 depending on mode |
| Operating modes | 8 channels x 2 scenes |
| | 16 channels x 1 scene |
| | 8 channels and 8 recorded scenes |
| Scene memory | 8 scenes total |
| Chase | 2 programmable 40 step chases |
| Control protocol | Multiplexed (optional DMX-512) |
| Output connector | 3 pin mic. XLR connector   (5 pin mic. XLR for DMX-512) |
| Compatibility | Multiplex protocol compatible with other 3 pin multiplexed systems |
| Power input | 18VAC or 15VDC  (Optional external power supply) |
| Power consumption | 70ma |

Other features of the TL-1608 include: Grand master fader,  split dipless crossfader, momentary "bump" buttons, and blackout control. Both 40 step chases may be activated simultaneously for complex patterns. Chase rate is set by tapping the rate button at the desired rate. The TL-1608 also offers the ability to link with a second TL-1608 console for increased capacity using a single multiplex control cable.

## INSTALLATION

The TL-1608 control console should be kept away from moisture and direct sources of heat.

Connect the unit to a Lightronics (or compatible) dimmer using a multiplex control cable with 3 pin XLR connectors. The TL-1608 is powered by the dimmer which it is connected to.  It may also be powered via an optional external power supply.  The unit will operate with dimmers in both the NSI/SUNN and Lightronics modes.  All dimmers connected to the unit MUST be in the SAME mode.
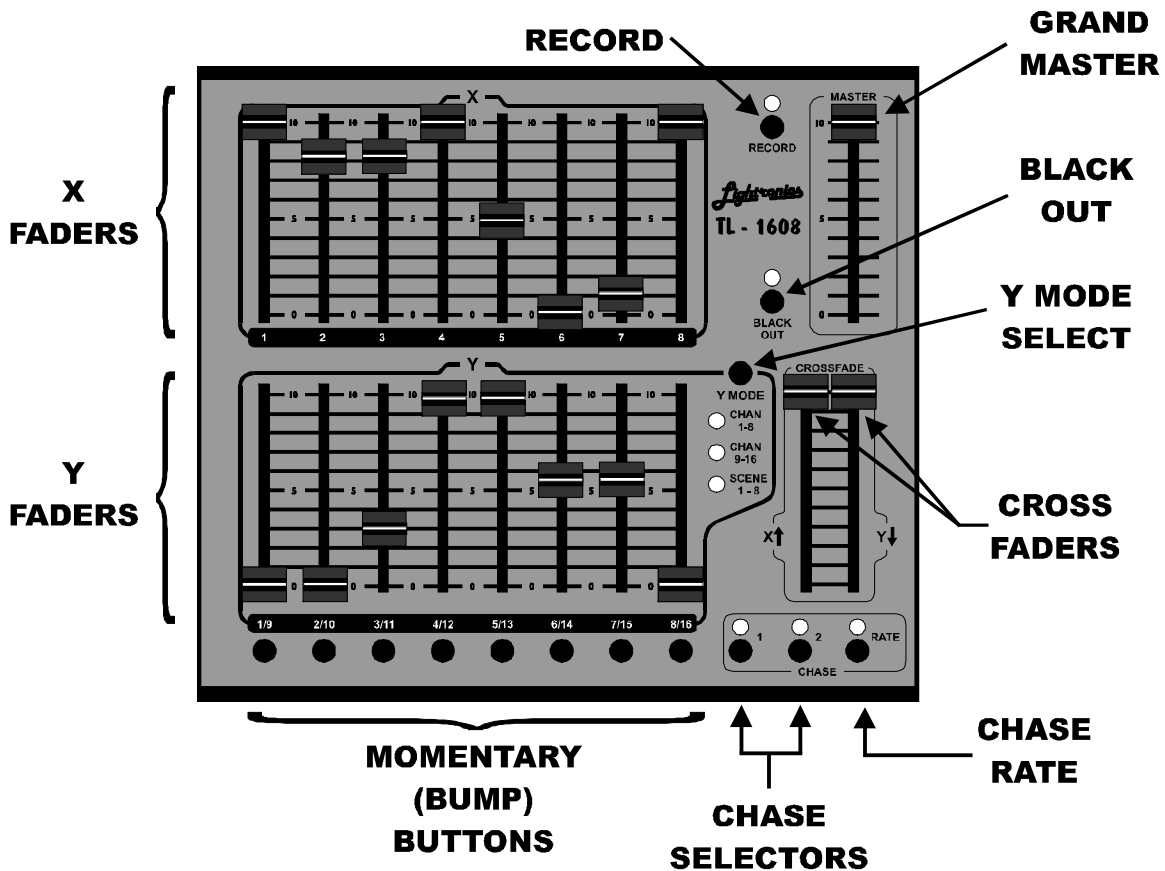
To reset chases to the factory programmed defaults:  Remove power from the unit.  Hold down the **CHASE 1** and **CHASE 2** buttons.  Apply power to the unit while holding these buttons down.  Continue to hold down the buttons for approximately 5 seconds then release.

To reset scenes to the factory programmed defaults:  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 TL-1608 operation.

## CONTROLS AND INDICATORS

| | |
|---|---|
| "X" faders: | Control individual channel levels |
| "Y" faders: | Control level of scenes or individual channels depending on current operating mode |
| Cross fader: | Fade between "X" and "Y" faders |
| Bump buttons: | Activate associated channels at full intensity while pressed |
| Chase select: | Turn chases on and off |
| Chase rate: | Press three or more times at desired rate to set chase speed |
| Mode indicator: | Indicates current operating mode of "Y" faders |
| "Y" function select: | Selects operating mode of "Y" faders |
| Blackout button: | Turns on and off console output from all scenes, channels and chases |
| Blackout indicator: | Lighted when blackout is active. |
| Grand master: | Adjusts output level of all console functions |
| Record button: | Used for recording scenes and chase patterns |
| Record Indicator: | Flashes when Chase or scene recording is active. |

## OPERATING MODES

The TL-1608 is capable of operating in three different modes.  The upper eight faders always control the level of channels 1 through 8. Pressing the "Y" function button changes  the function of the lower eight faders. The selected mode is indicated by the mode LEDs.

 The three operating modes are:

- "CH 1-8"       In this mode both the upper and lower rows of faders control channels 1 through 8. The cross fader is used to fade between the upper and lower faders.

- "CH 9-16"      In this mode the lower faders become channels 9 through 16.

- "SCN 1-8"      In this mode the lower faders become recordable scenes.

## GENERAL OPERATION OF CONTROLS

CROSS FADER: The cross fader provides the ability to fade between the upper (X) faders and the lower (Y) faders. The cross fader is split 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 <u>up</u> to activate the upper faders and the "Y" cross fader must be <u>down</u> to activate the lower faders.

MASTER: The master level fader controls the output level of all functions of the console.

BUMP BUTTONS: These momentary buttons activate channels 1 through 8 while pressed. The master fader determines the level of channels activated by the bump buttons.

CHASE 1 & 2 BUTTONS: Press to select chase patterns. Chase LEDs will light when a 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 the blackout button causes all channels, scenes and chases to go to zero intensity. The blackout LED will light whenever the console is in blackout mode.

RECORD BUTTON: Press to record scenes and chase patterns. Record LED will light when in record mode.

## 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.
3) Bring the channel(s) you want to be on in this step to full.
4) Press "RECORD" to move to the next step.
5) Repeat steps 3 and 4 until all steps are recorded (up to 40).
6) Press the "CHASE 1" or "CHASE 2" button to stop recording.

## CHASE PLAYBACK

1) Press the "RATE" button 3 or more times at the desired rate to set the chase speed.
2) Press "CHASE 1" and/or "CHASE 2" 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) Choose either operating mode and create the scene to be recorded.
2) Press "RECORD".
3) Press the bump button below the fader you wish to record the scene to.

Note:  Scenes may be recorded even if blackout is on or the master fader is down. Scenes may include other scenes if recorded while in the "SCN 1-8" mode.  This allows you to copy from one scene to another to move it or create modified versions.

**SCENE PLAYBACK**

1)      Choose the "SCN 1-8" mode.
2)      Bring up a fader on the lower row that has had a scene recorded to it.

Note: The "Y" cross fader must be <u>down</u> to use lower faders.


**MAINTENANCE AND REPAIR**


<u>TROUBLESHOOTING</u>

Check that the multiplex cable is not defective.

To simplify troubleshooting - reset the unit to provide a  known set of conditions.

Make sure that the dimmer address switches are set to the desired channels.


<u>OWNER MAINTENANCE</u>

The best way to prolong the life of your TL-1608 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.

There are no user serviceable parts in the unit.  Service by other than Lightronics authorized agents will void your warranty.

<u>OPERATING AND MAINTENANCE ASSISTANCE</u>

Dealer and Lightronics Factory 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.