# Operation Manual

## LCD CONTROLLER
### VERSION 1.3



BARGER LITE

AN RST COMPANY

# Table of Contents

# LCD Button Controls



**POWER:** Turns the LCD Controller on & off.

**MENU:** Switches between **DMX MODE** & **MANUAL MODE**.

**LOCK:** Locks the buttons (press again to unlock).

**MODE:** Allows you to switch between on screen features (**ARRAYS**, **TUBES**, **DIM** & **KELVIN**).

**KNOB:** Turn to set the desired level of the on screen feature selected (push **KNOB** to toggle between fast/slow scrolling).

**#1-4:** Programmable buttons for saved **SETs** (see page 4)

**#5(SAVE):** Used to save a current **SET** to buttons **1-4** (see page 4).

**#6(SMART):** If you have a rough dimming curve from a DMX controller you can use the **SMART** button to smooth it out.

**#7(TUNGSTEN):** 3200 Kelvin preset for all tubes.

**#8:** 4000 Kelvin preset for all tubes.

**#9:** 4500 Kelvin preset for all tubes.

**#10(DAYLIGHT):** 5600 Kelvin preset for all tubes.

**#11(SET):** Opens more menu options (see page 4)

**#12(ESC):** Clears last selection (brings you back to ALL TUBES mode).

## Powering Up & Down



### POWERING UP

First make sure that the power cable is plugged in to a power source. Next, place the power switch, located on the left side of the box, in the **ON** position. At this time the LCD monitor will display the current software version.

If the LCD Monitor does not come on when the power switch is placed in the **ON** position, press the **POWER** button located on the black faceplate seen above. At this time the LCD monitor will display **WELCOME**.  The **POWER** button can be used to turn the tubes and the LCD controller on or off at anytime, as long as the power switch is in the ON position.

### POWER DOWN

Place the power switch in the **OFF** position to completely power down the fixture.  It is recommended to place the power switch in the **OFF** position before unplugging the power cable.

# Kelvin Selection / Dimming



## DIMMING

Pressing **MODE** will toggle between **DIM** and **KELVIN** in the **ALL TUBES** mode. Rotate the **KNOB** to adjust the dimming level of the fixture. Pressing the **KNOB** once will switch between coarse or fine adjustment.

## KELVIN SELECTION

There are 4 preset Kelvin buttons (marked as 7-10 on the above picture).

- **#7    3200 KELVIN    (TUNGSTEN)**
- **#8    4000 KELVIN**
- **#9    4500 KELVIN**
- **#10    5600 KELVIN    (DAYLIGHT)**

To adjust the **KELVIN** to a setting other than the preset color temperatures, when in ALL TUBES mode, press **MODE** to toggle between **DIM** and **KELVIN**. Once **KELVIN** is selected use the knob to adjust to the desired color temperature. Pressing the **KNOB** once will switch between coarse or fine adjustment.

Using the **KNOB**, the **KELVIN** range can be adjusted from 2700K to 6000K.

# Individual Tube Control



## INDIVIDUAL TUBE CONTROL

Pressing **SET** will change the display to read: **ARRAY:1 TUBE:1 DMX:001**
You are now controlling **TUBE 1** on **ARRAY 1.** Each ARRAY consists of 4 tubes.

FOR DETAILS ON ARRAYS & TUBESE SEE PAGE 5

Use MODE to toggle between **DIM**, **KELVIN**, **ARRAY** and **TUBE**. Once highlighted, rotate the KNOB to adjust the setting up or down. Pressing the **KNOB** once will switch between coarse or fine adjustment. (To change the DMX address you will need to go into DMX mode).

Individual tube control can be used to save custom sets (see below).

## SAVING SETS

You can save a current set-up onto one of the 4 programmable buttons. To save a set press **SAVE**, press the button you wish to save that particular set to (**1-4**), and then press **SAVE** again. This is useful for quickly recalling a custom look that you have created.

# Array / Tube Details



Each **ARRAY** consist of a set of four tubes.  You have the ability to control each individual tube within each **ARRAY** (see page 4). Depending on your fixture model you could have anywhere from 1-5 **ARRAYS**.

See Below for **ARRAY** & **TUBE** layouts:

**ARRAY 1 TUBES 1-4 =** First four tubes at the top of the fixture

**ARRAY 2 TUBES 1-4 =** Tubes 5-8 from the top

**ARRAY 3 TUBES 1-4 =** Tubes 9-12 from the top

**ARRAY 4 TUBES 1-4 =** Tubes 13-16 from the top

**ARRAY 5 TUBES 1-4** = Tubes 17-20 from the top


*If you are using one of our 4-Bank or 8-Bank LEDs, the order of the tubes depend on how you physically order them.  **ARRAY 1 TUBE 1** will still control **TUBE 1** but it might not be the first tube in you harness.

# DMX Operation



The DMX channels for each tube is assigned as:

**Channel 1:  KELVIN**

**Channel 2:  DIMMING**

The Barger 20-Lite LED has 40 channels of DMX control (2 channels per tube).

Press the **MENU** button to switch from manual mode to **DMX** mode. Press the **KNOB** to select between the **ARRAY** or **DMX**. Rotate the **KNOB** to change the **DMX** address.

The factory default DMX address setting is:

| | |
|---|---|
| **ARRAY 1** | **DMX 001** |
| **ARRAY 2** | **DMX 009** |
| **ARRAY 3** | **DMX 017** |
| **ARRAY 4** | **DMX 025** |
| **ARRAY 5** | **DMX 033** |

All manual controls are disabled when **DMX** mode is activated.

# RST

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## VISIONS IN COLOR

## PREMIER
### LIGHTING & PRODUCTION

## BARGER LITE

*rstvisions.com*          *premier-lighting.com*          *barger-lite.com*

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