

BT 2000 CTO

USER MANUAL



INSTRUCTION

Thank you for purchasing BT-2000 CTO, every unit has been thoroughly tested and shipped in perfect condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for any damage and be sure all accessories necessary to operate the unit has arrived well. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without pre-notice..

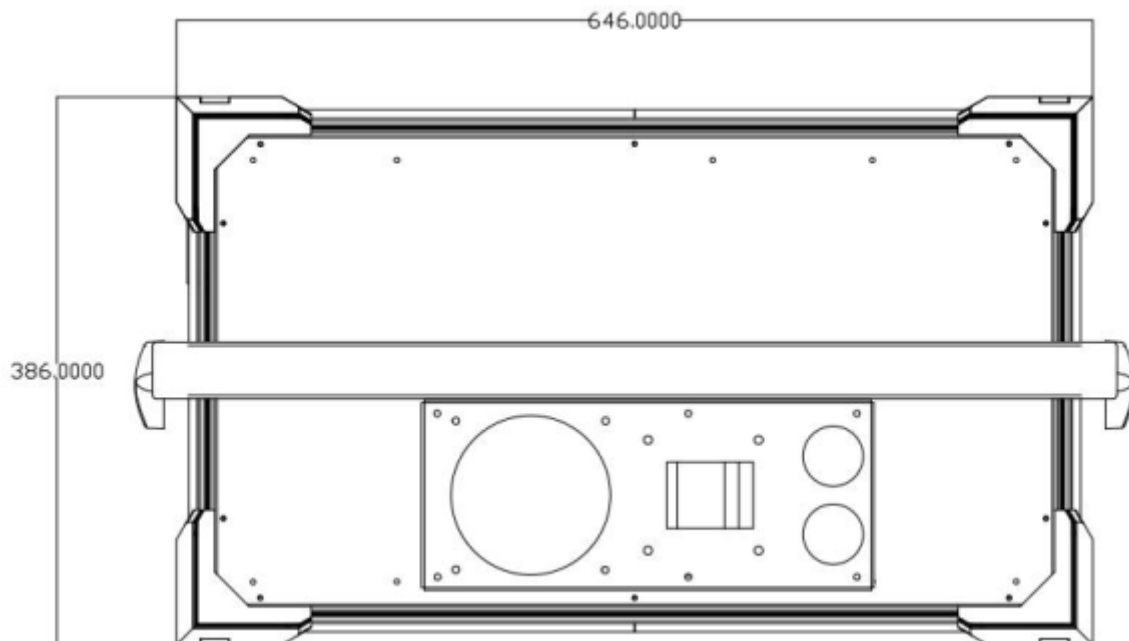
DESCRIPTION OF THE DEVICE

1. Profile

With the idea of energy saving and environment protection, the device use low power loss and extremely high efficiency led. The device housing cover is made of used the new high strength heat resistance engineering plastics, with beautiful shape and smooth lines. The designing and manufacturing is in compliance with the IEC standard. The device is suitable in the large-scale theatrical performance, the theater, the performance hall, the bar, nightclub and so on.

The product conforms to the international standard DMX512 agreement completely; the device can be controlled in signal, and also be controlled in many units.

2. Drawing(mm)



3.Specification

Model: BT-2000 CTO

Lamp: 1920pcs X 0.2W white LED (960pcs 3200K LEDs+960pcs 5600K LEDs)

CTO: 3000K-6000K

Power Supply: AC90V-250V, 50Hz/60Hz

Power consumption: 220W

DMX Channel: 2CHs

Display: LCD touch screen

Flicker-free; 0-100% linear dimmer system

Connector: PowerCON in/out; 3pin/ 5pin DMX XLR

Dimmer system: 4 dimmer curves

Control Mode: Master/Slave mode; Stand-alone mode; DMX 512 control;

IP rate: IP20

N. W.: 9.5kgs

G.W: 11.5kgs

Dimension: 646(D)x386(W)x91.7(H)mm

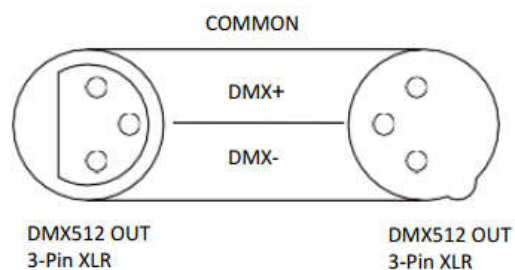
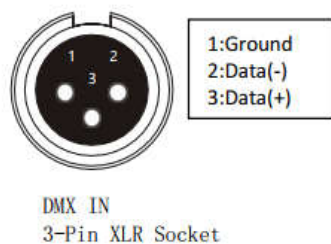
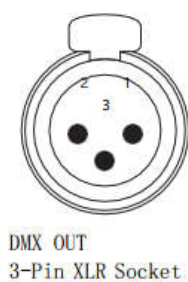
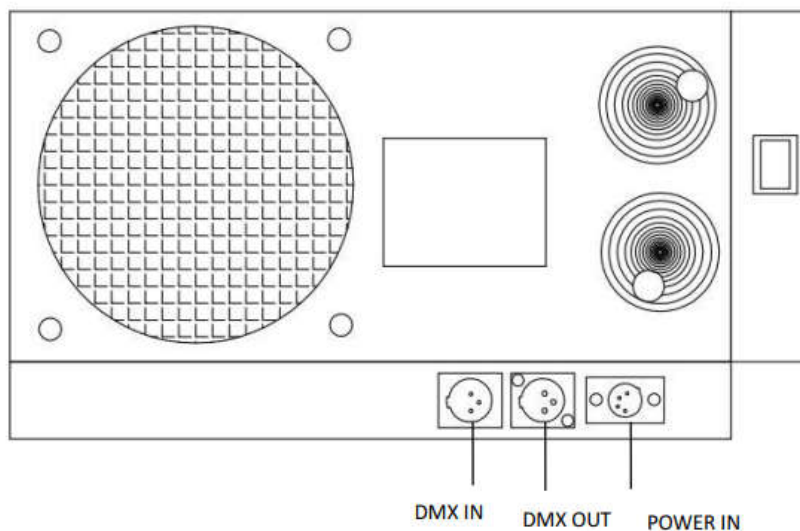
Accessories including: Power cord; DMX cable; Barndoor

4. Safety Precautions

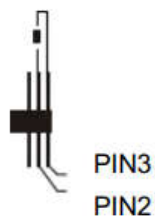
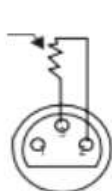
- Be sure that the local power outlet match that of the required voltage for your unit,
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are user serviceable parts inside.
- Never operate this unit when its rear cover is removed.
- Never plug this unit into a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- During long periods of non-use, disconnect the units main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning unit should be cleaned only as recommended by the manufacturer. See 'Cleaning' for details.
- Heat –The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The unit should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally or exhibits s marked change in performance.

5. DMX 512 control connections

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the light. You can chain multiple lights together through series linking. The cable needed should be two core, screened cable with XLR input and output connectors. Pls refer to the diagram below:



120 Ω



6. Display Control

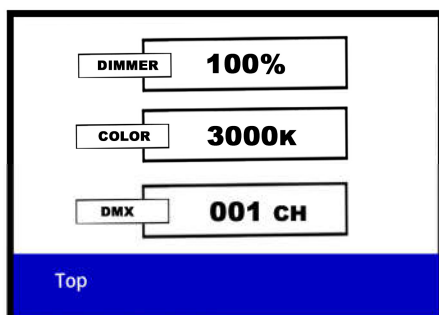
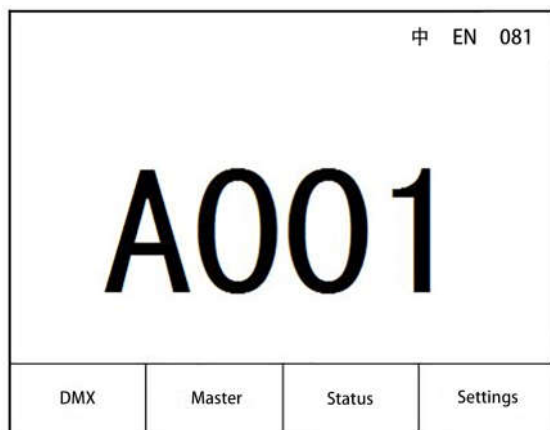
Main Control

The control board on the fixture bottom is your interface to access and control all the functions on the unit. It is LCD touchable display gives you a code view of the options and functions. The following will explain each function and its options.

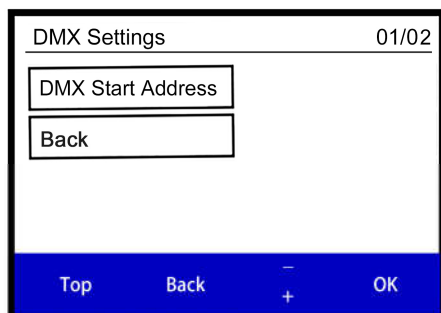
LED VIDEO PANEL
Touch Screen



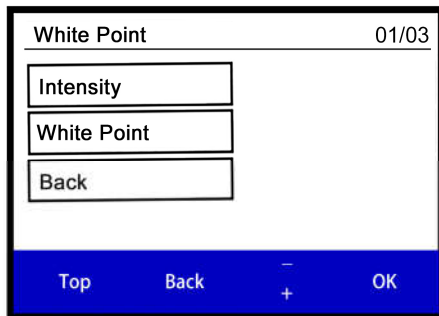
Power Supply
90-220V
50/60Hz
CE RoHS



1. **Top:** Enter fast operation access DIMMER/COLOR/DMX. Press Top from status Master/ Status/Settings to enter.
2. **Dimmer:** Turn MENU knob to select intensity from 0 to 100%. Press enter to confirm setting
3. **COLOR :** Turn COLOR knob to select color temperature from 3000K to 6000K. Press enter to confirm setting
4. **DMX :** Turn MENU knob to select dmx start address value from 001 to 512. Press enter to confirm setting

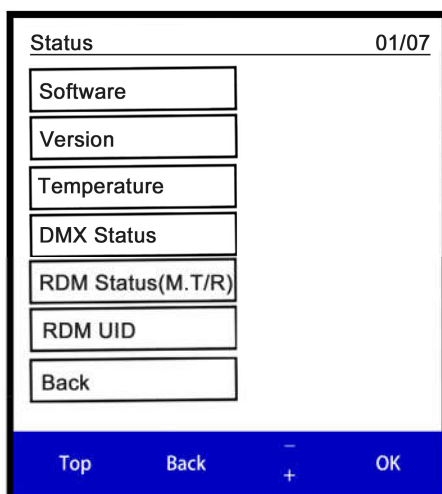


1. **DMX Start Address:** Choose **DMX** to enter DMX setting. Press + or - to select DMX start address value from D001 to 512. Press OK to confirm setting



1. **Intensity:** Press **Master** to enter sub-menu white point, this function allows you to adjust intensity on fixture form 000 to 100.

2. **White Point:** This function allows you to adjust color temperature from 3000K to 6000K



1. **Software:** The display issues software number on the fixture is S1-M0C1

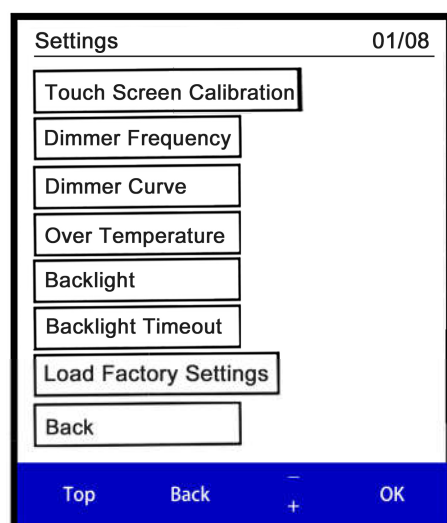
2. **Version:** The display issues software version on the fixture is Y702

3. **Temperature:** The display issues current working temperature on the fixture

4. **DMX Status:** The display issues the fixture is on DMX or out of DMX signal

5. **RDM Status:** This function allows you to set DMX address by RDM

6. **RDM UID:** The display issues ID is 1901678E7A6C



1. **Touch Screen Calibration:** The function allows you to calibrate screen sensitivity

2. **Dimmer Frequency:** Select dimmer frequency from 3.5KHz to 16KHz

3. **Dimmer Curve:** Select dimmer curve from Stand or Linear or incandescent or Quick

4. **Over Temperature:** It issues top protection temperature on the fixture

5. **Backlight:** The function allows you to adjust intensity of backlight from 100%

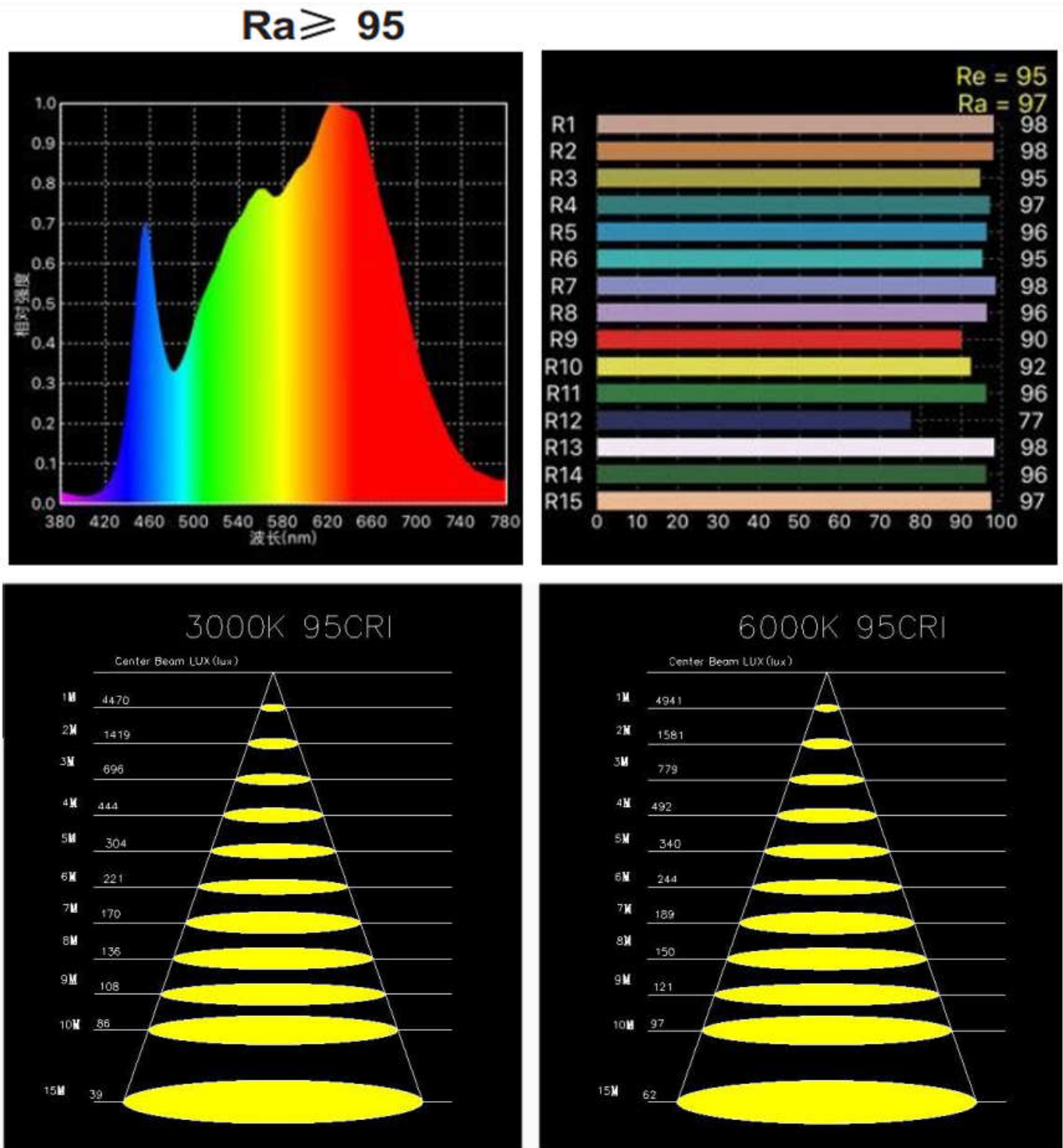
6. **Backlight Timeout:** The backlight will be off after 30seconds, it can be adjusted from 0 to 60seconds

7. **Load Factory Settings:** This function allows you to set fixtures to have factory settings.

8. DMX Chart

Channel	Value	Function
1	001-255	Dimmer 0-100%
2	001-011	3000K
	012-019	3100K
	020-235	3200K-5800K
	236-243	5900K
	244-255	6000K

9. Photometric Data



8. APPENDIX

1. Issues and Solution

Issue	Reason	Solution
Device not work	No power	AC100V-250V, 50Hz/60Hz. Check the power connection, and make sure device connect the mains in well condition. Check if switch is on. Check if the fuse is good.
Led lamp OFF	Led lamp burnt	Replacing led bulb
	Driver stop working	Replacing led driver board
	Temperature switch broken	Replacing temperature switch
Fan not work	Fans broken	Replacing fans

2. Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe off the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the unit operates (i.e. smoke, fog residue, dust, dew).

3. Unit not responding to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on Some other DMX devices pin 5 may be “hot”). Also, check that all cables are connected to the right connectors; It does matter which way the inputs and outputs are connected.