
IP20 4003 CURTAIN EFFECT LIGHT

USER MANUAL



For safety, please read this user manual carefully before initial use.

Tealshine reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Tealshine assumes no liability or responsibility for any errors or omissions. Please consult Tealshine for any clarification or information regarding this item.

Guangzhou Tealshine Lighting Limited
Website: www.tealshine.com
Email: info@tealshine.com

1 Important Safety Information

Symbol	Meaning
	General risk.
	Electric shock risk
	Hot surface
	Suitable for indoor use only.
$T_a 45^{\circ}\text{C}$	Maximum operating ambient temperature.
	Minimum distance from illuminated objects.
	Do not stare at the operating light source.
 Risk Group 2	Photo-biological safety risk group2
	Never expose the front lens to sunlight or any strong artificial Light source from any angle to avoid damage of head internal parts.



European Community Directive 2012/19/EU on Waste Electrical and Electronic Equipment. (WEEE)

2 General Warning

Carefully read the instruction contained in this User Manual, as they give important information regarding your safety and others during installation, use, and maintenance of the product.

The unit is not suitable for domestic use and must be installed by qualified personnel only.

The device must always be equipped with an efficient ground connection.

3 Level of protection IP



- The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP20.
- The projector contains electric and electronic components which should under no circumstances come into contact with oil, water, or any other liquid. The proper functioning of the unit would be compromised should this occur.

4 Included Items

- 1x PowerCON female connector
- 2x Omega clamp with ¼- turn “Fast Lock” connection(For moving head)
- Safety cable(Optional)
- Signal cable

5 General Warranty Conditions

The unit is guaranteed for 12 months from the date of purchase against manufacturing material defects.

The warranty covers defects in materials and workmanship. The warranty is not applicable where a defect is caused by misuse or unauthorized repair of the product.

Any functional or/and physical modification of the product is not allowed.

6 Product Installation

The unit is suitable for dry locations only.

The unit may be either floor or ceiling mounted.

6.1 Floor mounting

For floor mounting installations, This model is supplied with four rubber mounting feet at the base

6.2 Ceiling mounting

For ceiling mounting installations, we recommend the use of appropriate clamps to fix the unit to the mounting surface.

The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it.

The structure should also be sufficiently rigid as not to move or shake whilst the device is moving.

Four ¼-turn “Fast Lock” connections placed in the base of the unit allow this model to hang by using Omega brackets (provided with the unit).

6.3 Safety Cable

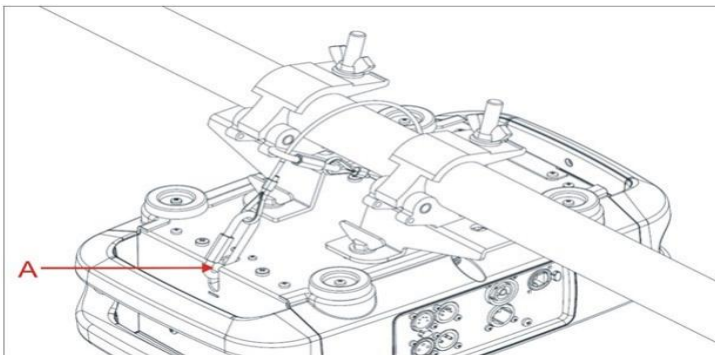


A safety cable must be securely fixed to this model and to the suspension truss in order to avoid the fixture accidentally falling, should the main fixing point fail.

The safety cable used must be approved by a notified body according to IEC 60598-2-17 and must be capable of bearing at least 10 times the weight of the unit. For more information,

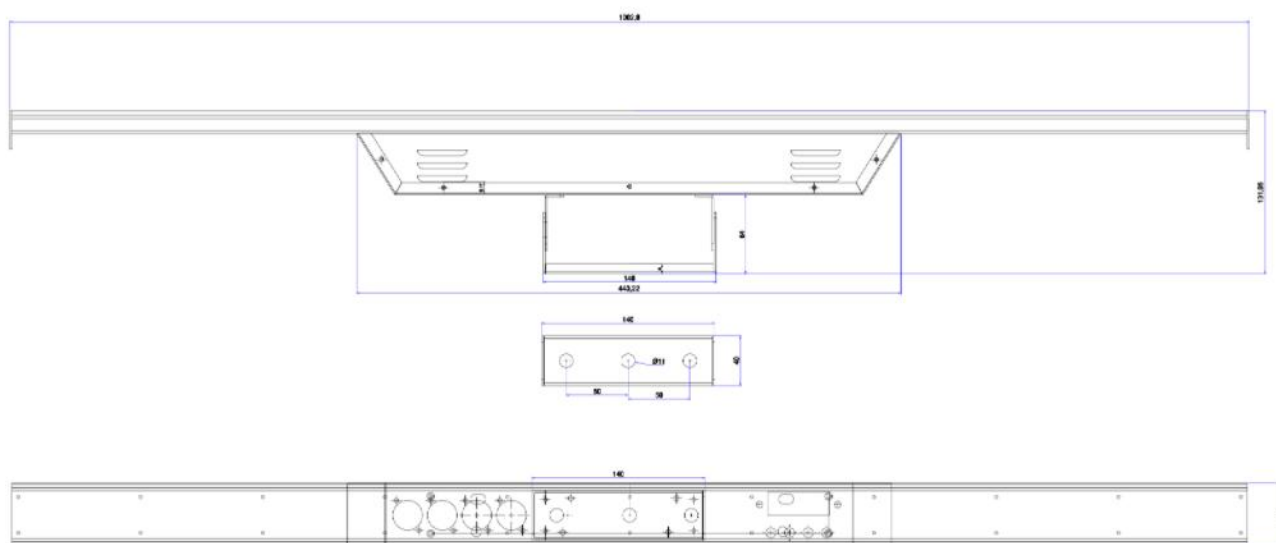
please refer to an authorized service center.

You may attach the safety cable to the attachment point (A) located at the base of the fixture, as shown in the picture as below.

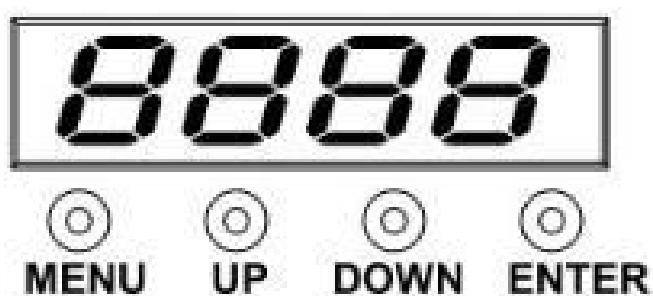


7 Product Features

7.1 Dimensions



7.2 Menu Operation



MENU	• To access the control menus in the display panel. • To return to the previous level in the menu structure without saving any changes. • To exit the menus.
ENTER	• To select any desired menu. • To confirm any selection made or save any changes.
UP / DOWN	• To navigate the menus' structure. • To scroll between any values.

7.3 Menu

Number	Content	Value	Function	
1	A001	001 - 512	DMX Address Setting	
2	11CH	5/11/42/12 2	Channel Mode	
3	R255	000 - 255	Red Dimming, from Dark to Bright	
4	G255	000 - 255	Green Dimming, from Dark to Bright	
5	B255	000 - 255	Blue Dimming, from Dark to Bright	
6	F000	005 - 255	Total Strobe, from Slow to Fast	
7	CL01	01 - 07	Red, Green, Blue, Yellow, Purple, Cyan, White	
8	EF01	01 - 30	Auto Run	Press ENTER to Set the Speed SP01-SP15
9	SU01	01 - 03	Sound Mode	Press ENTER to Set the Sensitivity SE01-SE15

General operation of the setup menu:

- Press the MENU button to ENTER the setup menu.
- Press the UP/DOWN buttons to browse the menu until the required function shows up.
- Select the functions with the ENTER button.
- Use UP/DOWN buttons to change the values.
- Press the ENTER button to confirm the selected values.
- Press the MENU button to return to a higher level in the menu or leave the setup menu.
- Press the MENU button during 2s to unlock the setup menu.
- Press the UP/DOWN buttons together to flip the display.

7.4 DMX Chart

11 CH

CH	VALUE	FUNCTION
CH 1	000-255	0-100% Master dimmer from dark to bright
CH 2	005-255	Strobe from slow to fast
CH 3	000-004	CH 6-8,RGB static dimmer
	005-009	Static color, CH4 Select (red, green, blue, yellow,UV,cyan,white)
	010-014	Breathing effect, CH5 Select color
	015-019	Jump effect, CH5 Select color
	020-024	Fading effect, (full color effect)
	025-029	Pulse change effect, CH5 Select color
	030-037	Auto run effect-1,CH5 Select color(horse race effect)
	038-045	Auto run effect-2, CH5 Select color
	046-053	Auto run effect-3,CH5 Select color
	...	...
	...	...
	214-221	Auto run effect-24, CH5 Select color
	222-229	Auto run effect-25, (full color effect)
	230-239	Auto run effect-26, (full color effect)
	240-244	Sound control 1,CH5 Select color
	245-249	Sound control 2,CH5 Select color
	250-255	Sound control 3,CH5 Select color
CH 4	000-255	Static color mode:red, green,blue,yellow,UV, cyan,white. Auto run speed from slow to fast . Sound control: adjustment sensitivity from low to high (The highest sensitivity is set by the menu).
CH 5	000-028	Default color
	029-056	Red,CH3 manual color control
	057-085	Green,CH3 manual color control
	086-113	Blue,CH3 manual color control
	114-142	Yellow,CH3 manual color control
	143-170	UV,CH3 manual color control
	171-199	Cyan,CH3 Manual color control
	200-227	White,CH3 manual color control
	228-255	Built in color(CH6-CH8), CH3 manual color control
CH 6	000-255	0-100% Foreground red dimmer from dark to bright
CH 7	000-255	0-100% Foreground green dimmer from dark to bright
CH 8	000-255	0-100% Foreground blue dimmer from dark to bright
CH 9	000-255	0-100% Background red dimmer from dark to bright
CH 10	000-255	0-100% Background green dimmer from dark to bright
CH 11	000-255	0-100% Background blue dimmer from dark to bright

5 CH

CH	VALUE	FUNCTION
CH 1	000-255	0-100% Master dimmer from dark to bright
CH 2	005-255	Strobe from slow to fast
CH 3	000-255	0-100% Red dimmer from dark to bright
CH 4	000-255	0-100% Green dimmer from dark to bright
CH 5	000-255	0-100% Blue dimmer from dark to bright

42CH

CH	VALUE	FUNCTION
CH 1	000-255	0-100% Master dimmer from dark to bright
CH 2	005-255	Strobe from slow to fast
CH 3	000-255	0-100% R1 red dimmer from dark to bright
CH 4	000-255	0-100% G1 green dimmer from dark to bright
CH 5	000-255	0-100% B1 blue dimmer from dark to bright
...	...	...
...	...	...
CH 40	000-255	0-100% R10 red dimmer from dark to bright
CH 41	000-255	0-100% G10 green dimmer from dark to bright
CH 42	000-255	0-100% B10 blue dimmer from dark to bright

122CH

CH	VALUE	FUNCTION
CH1	000-255	0-100% Master dimmer from dark to bright
CH 2	005-255	Strobe from slow to fast
CH 3	000-255	0-100% R1 red dimmer from dark to bright
CH 4	000-255	0-100% G1 green dimmer from dark to bright
CH 5	000-255	0-100% B1 blue dimmer from dark to bright
...	...	...
...	...	...
CH 120	000-255	0-100% R40 red dimmer from dark to bright
CH 121	000-255	0-100% G40 green dimmer from dark to bright
CH 122	000-255	0-100% B40 blue dimmer from dark to bright

The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, there is channel modes: 14/16, if we set the mode at standard 16 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 17, third one at 33, etc.

- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

8 More Functions

- Software upgrade function via DMX cable. If there is any new firmware for this device, it can be upgraded simply via a software upgrade box, without the need to change any mechanical parts. The upgrade box is not included in the package, if you need any further assistance please contact your authorized dealer.
- Hibernation. The device will enter standby mode if activated after a period of disconnecting DMX signal to save power and will wake immediately when the DMX signal is sent or received again.

9 Technical Specifications

Power

- Input Voltage: 90~260V AC, 50/60Hz
- Power Consumption: 100W
- Fuse: F5A, 250V

Photometric

- Light Source:40 pcs*3W RGB 3535 LEDs
- PWM: 1,000Hz
- LED Lifespan: 50,000hours
- Beam angle:8°

Effects

- Dimmer: 0~100%
- Each pixel control individually
- Pulse effect
- Strobe:1-30Hz
- Horse race effect
- Pure smooth Color Mixing
- Different kinds of preset macro effects with variable speed
- Splicing function on both ends

Control

- Protocol: DMX512, master-slave, sound activated or auto operation
- DMX Channels: 4/17/129
- IP20 3-pin XLR IN/OUT
- IP20 PowerCon IN/OUT
- Display: 4-button LED display control panel

Housing

- Materials: Metal
- Finishing: Matte black
- IP rating: IP20
- Cooling: Fan
- Net weight: 3kgs
- Gross weight:3.8kgs
- Product dimension:1002.8*52*80mm
- Rigging: Power cable, signal cable, safety chain

Cooling System

- Advanced cooling system integrated aluminum
- Efficient low noise self adjusting fan cooling system
- Constant temperature readout and management function
- Over temperature protection management

Working Environment

- Maximum Ambient Temperature:45°C
- Minimum Operating Temperature:-10°C
- Protection Rating:IP20

Approvals

- CE compliant
- RoHS compliant

10 *Periodic Cleaning*



WARNING! Disconnect from mains before servicing.

10.1 *Mechanical Parts*

Periodically check all mechanical parts, gears, guides, belts, etc., for wear and tear. Replace them if necessary.

Periodically check the lubrication of all components, particularly the parts subjected to high temperatures. If necessary, apply suitable lubricant (available from factory) where needed.

Check the tension of the belts and adjust them where necessary.

10.2 *Electrical Components*

Check all electrical components for correct earthing and proper connection of all connectors. Refasten where necessary.