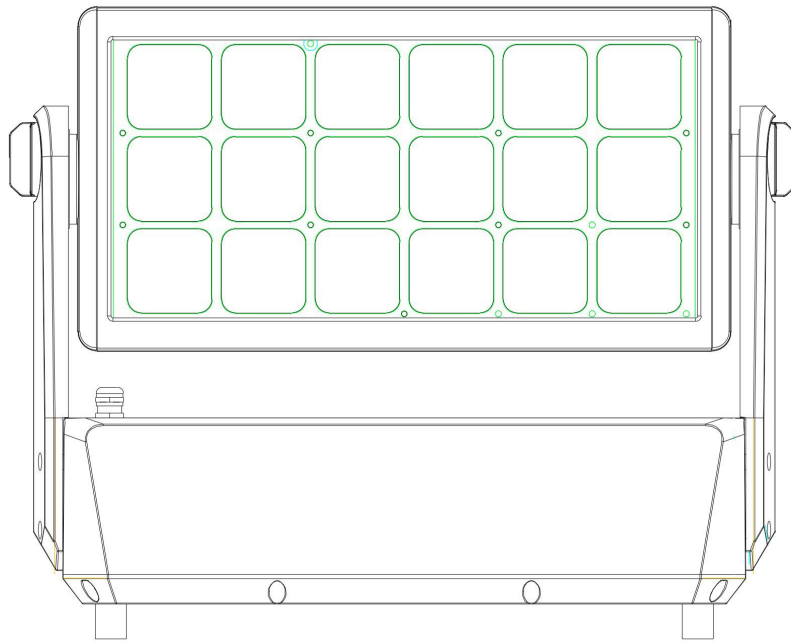


TORNADO BAT IP -BATTERY



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Thank you for your patronage!

We are confident that our excellent products and service can satisfy you.

For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safely correctly.

We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



CAUTION!

Keep this device away from rain and moisture!



CAUTION!

Unplug mains lead before device's installation, cleaning and maintenance!

Every person involved with the installation, operation and maintenance of this device has to:

-be qualified

-follow carefully the instructions of this manual

INTRODUCTION

Thank you for having chosen this professional moving head.

You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the carton box you should find:

1. One power in cable
2. One 3 Pin DMX cable(5 Pin optional)
3. One mounted bracket
4. One IR remote
5. One English user manual

(Flight case, Clamps are optional, please contact your dealer)

Please check carefully that there is no damage caused by transportation. Should there be any questions, please consult your dealer and don't install this device.

GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc., The device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6th page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.

For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

SAFETY INSTRUCTIONS



CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.
2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

▲ Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.

This device falls under protection-classI. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

**CAUTION!**

Never touch the device during operation!
The housing may heat up!

**CAUTION!**

Never look directly into the light source,
As sensitive persons may suffer an epileptic shock.

Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.

CLEANING AND MAINTENANCE

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing. Fixations and installations spots(ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

**CAUTION!**

Disconnect from mains before starting maintenance operation!

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents !

TECHNICAL PARAMETERS

BOBDY

Die cast aluminum

Waterproof grade: IP65

Tilt manually adjustable angle

LIGHT SOURCE

Light source: 18X20W RGBWA UV LED

LED lifespan: 50000 hours

OPTIC

Beam angle: 20 ° (optional lens angle of 10 °/40 °)

Spot angle: 32 °

Dimming: No jitter

CCT shortcut key (color temperature 2700K-10000K adjustable)

CONTROL AND PROGRAM

6 touch buttons

Control panel: OLED display screen

Control protocol:

Wired DMX512, IR remote control, APP (WIFI) (supports Apple and Android), 2.4G wireless DMX512 (compatible with Sweden),RDM

DMX channel mode: 4 modes

DMX channels: 2/6/8/11 channels

Software upgrade: Upgrade software through DMX connection

ELECTRICAL

Input power range: AC110V-240V,50/60Hz

Power: 100W

Power socket: Waterproof powercon true1 in&out (Seetronic brand)

Signal: 3-Pin waterproof XLR socket in&out

BATTERY

Battery capacity: 24000mAh

Charging and discharging times: 500 times

Charging time: 7.5H

Full power on: 3.2H

Auto: Self run 7.5H

R:18H

G:13H

B:15H

W:14.5H

A:15.5H

UV:18H

WORK ENVIRONMENT

Maximum ambient temperature: 45 ° C

Minimum operating temperature: 0 ° C

Maximum surface temperature: 65 ° C

Protection level: IP65

INSTALL

Can be installed horizontally/vertically/upside down

Quick lock hole at the bottom

Safety rope hole

FACTORY CONFIGURATION

Instruction manual

Power line/DMX signal line

Quick lock component

OPTIONAL PARTS

Flightcase

Clamps

Magnetic diffusion filter

Barn door



CARTON SIZE 1PCS

Length: 43CM

Width: 43CM

Height: 26.5CM

Net weight: 10.1KG

FLIGHT CASE: 4in1

Length: 72.5CM

Width: 47.5CM

Height: 63.5CM

Net weight: 57.5KG

FLIGHT CASE: 6in1

Length: 120cm

Width: 46.5CM

Height: 65.5CM

Net weight: 88.5KG

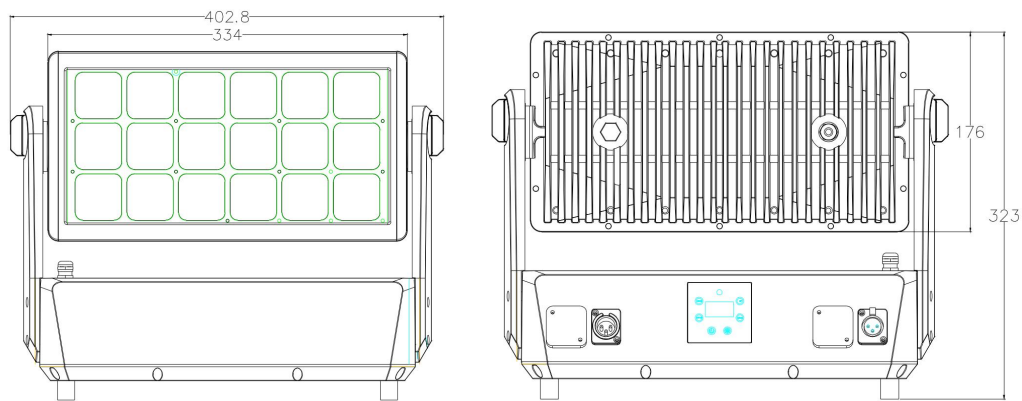
SIZE & WEIGHT

Net weight: 8.5KG

Length: 41CM

Width: 18CM

Height: 32CM



PANEL INSTRUCTION



MENU FUNCTION

DISPLAY MODE			FUNCTION	
Address	001—512		Address code setting	
Channel	2CH		2-channel mode	
	6CH		6-channel mode	
	8CH		8-channel mode	
	11CH		11 channel mode	
DMX Fail	Blackout		Control panel data black field	
	Hold		Console data retention	
Frequency	600HZ		600 refresh rate	
	1200HZ		1200 refresh rate	
	2000HZ		2000 refresh rate	
	4000HZ		4000 refresh rate	
	12KHZ		12K refresh rate	
	25KHZ		25K refresh rate	
Custom	Red:0-255		Red manual dimming	
	Green:0-255		Green manual dimming	
	Blue:0-255		Blue manual dimming	
	White:0-255		White manual dimming	
	Amber:0-255		Yellow/Amber Manual Dimming	
	UV:0-255		Purple manual dimming	
Program	Static	01-32 types of static color mixing		32 types of static color mixing
		Speed:00-16		Strobe speed (static color mixing at a speed of 00)
	Auto	Speed:01-16		Color jump
	Fade	Fade 01	Speed:00-16	Color gradient
		Fade 02	Speed:00-16	Color mutation
		Fade 03	Speed:00-16	Color pulsation
	Sound	Sound:01	Sens:00-99	Voice controlled color change
		Sound:02	Sens:00-99	Voice controlled mutation
		Sound:03	Sens:00-99	Voice controlled color changing flicker
		Sound:04	Sens:00-99	Voice controlled color change+mutation+color changing flicker
	CCT	2000K		
		2200K		
		2400K		
		2600K		
		2800K		
		3200K		
		3600K		
		4000K		

		4400K	
		4800K	
		5200K	
		5600K	
		6000K	
		6400K	
		6800K	
		7200K	
		7600K	
		8000K	
		8400K	
		8800K	
		9200K	
		9600K	
		10000K	
	WIFI	LED_XXX	WIFI mode and link address
	MASTER/SLAVE	MASTER/SLAVE	
Wireless DMX ON/OFF	ON Long press to confirm in State Key, select GZ/RD MODE	GZ mode(Guangzhou mode) Group ID:1-7	Frequency band ID1-ID7 Red/Green/Yellow/Blue/Purple/Blue/White
		RD mode(Sweden mode)	Clear
			Pairing
Run Time	2/4/6/8 hour		Lamp usage time setting
Back Light			
	20s		Display standby for 10 seconds and turn off the screen
	30s		Display standby for 20 seconds and turn off the screen
	40s		Display standby for 30 seconds and turn off the screen
IR	ON/OFF		Infrared remote control on/off
Menu Lock	ON/OFF		Key lock on/off (When locking the screen, press and hold the UP+DOWN key to unlock)
Factory Reset	NO/YES		System self check reset
Curve	Led Curve 1		linear curve
	Led Curve 2		Square curve
	Led Curve 3		Logarithmic curve
	Led Curve 4		s-curve
Information	Version V12		Software version

REMARKS

A. In A001 status mode, press and hold the ENTER key for 3 seconds before the program automatically enters current regulation mode. Press ENTER again to select the color (up and down keys to adjust the value), and then press Menu key to return.

B. The frequency band indicator light is red slow flashing when the host sends, and green slow flashing when the slave receives.

C. The steps for controlling mobile phone WIFI are as follows:

Step 1: Install the app for this software on your phone first (LED LAMP - Stage - LED LIGHT)

Step 2: Switch the lamp display function to WIFI mode (under the menu Program WIFI mode)

Step 3: Open the settings icon on your phone, open WIFI, and search for the WIFI address. The text starting with an LED will appear. For example, "LED-XXX", click on the link

Step 4: The phone returns to the Home screen, finds the APP installed on the phone, opens it, and controls it after the link is successful.

D. In the menu Wireless mode, the 7 frequency bands of wireless 2.4G can be adjusted, and the corresponding light colors of the 7 frequency bands are as follows (01 red/02 green/03 yellow/04 blue/05 light blue/06 purple/07 white)

E. During the charging process, the charging interface will appear on the display screen (if you need to use the lamp while charging, press the MENU button under the charging interface to enter the operation mode and operation mode of the lamp)

F. Over temperature protection function: (1. When the temperature reaches 50 ° 59 ° C, the program will automatically reduce the brightness by 30%; 2. When the temperature reaches 60 ° 69 ° C, the program will automatically reduce the brightness by 25%; when the temperature reaches 70 ° 79 ° C, the program will automatically reduce the brightness by 30%; when the temperature reaches 80 ° C, the program will automatically turn off the light)

G. This lamp supports wired RDM and software online upgrade functions.

DMX CHANNEL LIST

CH	2CH	6CH	8CH	11CH
1	Dimmer	Red	Dimmer	Dimmer
2	Color Temp	Green	Strobe	Red
3		Blue	Red	Green
4		White	Green	Blue
5		Amber	Blue	White
6		UV	White	Amber
7			Amber	UV
8			UV	Strobe
9				Color Temp
10				Mode
11				Speed

DMX CHANNEL DESCRIPTION

CH	2CH MODE	6CH MODE	8CH MODE	11CH MODE
CH1	0-255 Total dimming	0-255 Red dimming	0-255 Total dimming	0-255 Total dimming
CH2	0-10: Light off 11-20: 2000K 21-30: 2200K 31-40: 2400K 41-50: 2600K 51-60: 2800K 61-70: 3200K 71-80: 3600K 81-90: 4000K 91-100: 4400K 101-110: 4800K 111-120: 5200K 121-130: 5600K 131-140: 6000K 141-150: 6400K 151-160: 6800K 161-170: 7200K 171-180: 7600K 181-190: 8000K 191-200: 8400K	0-255 Green dimming	0-9 Light off 10-255 Slow to fast strobe	0-255 Red dimming

	201-210: 8800K 211-220: 9200K 221-230: 9600K 231-240: 10000K 241-255 No Function			
CH3		0-255Blue dimming	0-255Red dimming	0-255Green dimming
CH4		0-255White dimming	0-255Green dimming	0-255Blue dimming
CH5		0-25 Amber dimming	0-255Blue linear dimming	0-255White dimming
CH6		0-255 UV dimming	0-255White linear dimming	0-255Yellow dimming
CH7			0-255 Amber dimming	0-255 UV dimming
CH8			0-255 UV dimming	0-9 Light off 10-100 Pulse strobe (slow to fast) 101-104 Light on 105-200 Gradient strobe (slow to fast) 200-204 Light on 205-250 Random strobe (slow to fast) 251-255 Light on
CH9				0-10: Light off 11-20: 2000K 21-30: 2200K 31-40: 2400K 41-50: 2600K 51-60: 2800K 61-70: 3200K 71-80: 3600K 81-90: 4000K 91-100: 4400K 101-110: 4800K 111-120: 5200K 121-130: 5600K 131-140: 6000K 141-150: 6400K 151-160: 6800K 161-170: 7200K 171-180: 7600K 181-190: 8000K

				191-200: 8400K 201-210: 8800K 211-220: 9200K 221-230: 9600K 231-240: 10000K 241-255 No Function
CH10				0-9 Light off 10-50 Static color mixing 51-100 Jump mode 101-150 Gradient mode 151-200 mutation pattern 201-215 Color changing voice control 216-230 Color strobe voice control 231-245 Mutant voice control 246-255 Breathing voice control
CH11				0-255 Speed

REMOTE FUNCTION



- (1)Dimming Up
- (2)Dimming Down
- (3)Off : Light Off/Plause
- (4)On : Light On/Running
- (5)R, G, B, W, A, UV: 6 Single Colors
- (6)0: A001 Console Receiving Mode, UP and DOWN to adjust address
- (7)1-9: 9 Mixed Colors
- (8)AUTO : Color Jumping Mode, UP and DOWN to adjust speed
- (9)STROBE: Flash Mode, UP and DOWN to adjust speed
- (10)FADE: Color Gradient Mode, UP and DOWN to adjust speed
- (11)SOUND : Voice Control Mode, UP and DOWN to adjust voice sensitivity.

APP CONNECTION STEPS

Scan the QR code on the cover to download the LED LAMP APP



1. Select Program and press the up and down keys to select WI-FI and confirm.



2. Select WiFi Mode and press OK. LED-***will be displayed below WiFi.



The mobile phone WLAN needs to be turned on, otherwise it cannot be used!

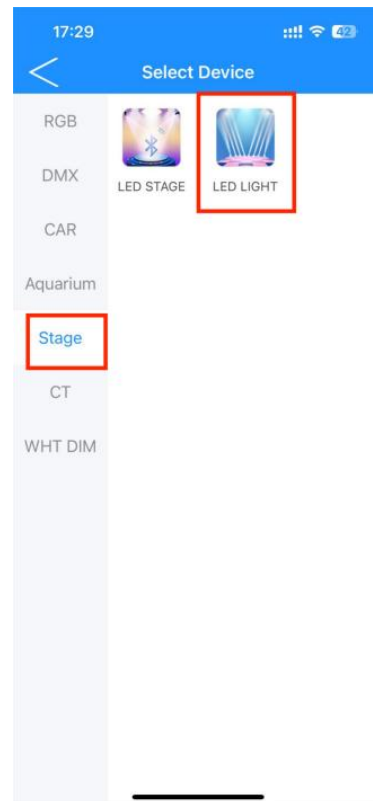
3. Find the corresponding L-*** in the mobile phone WLAN list and click Connect.



4. Click to open the installed LED LAMP application.



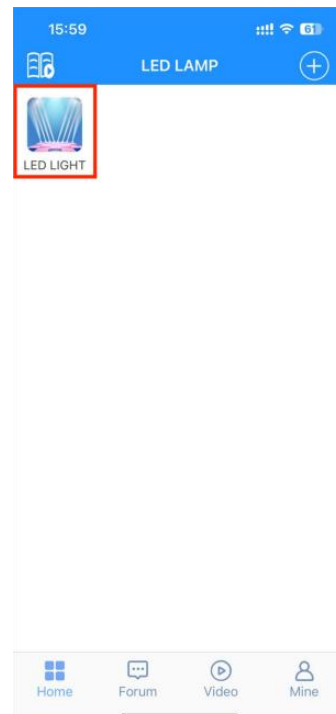
5. Click Add in the upper right corner



6. Select the exclusive module LED LIGHT in Stage to turn on



7. The connection successful.



8. After successful connection, LED LIGHT will be displayed on the home page and you can click it directly to use it without adding it again.