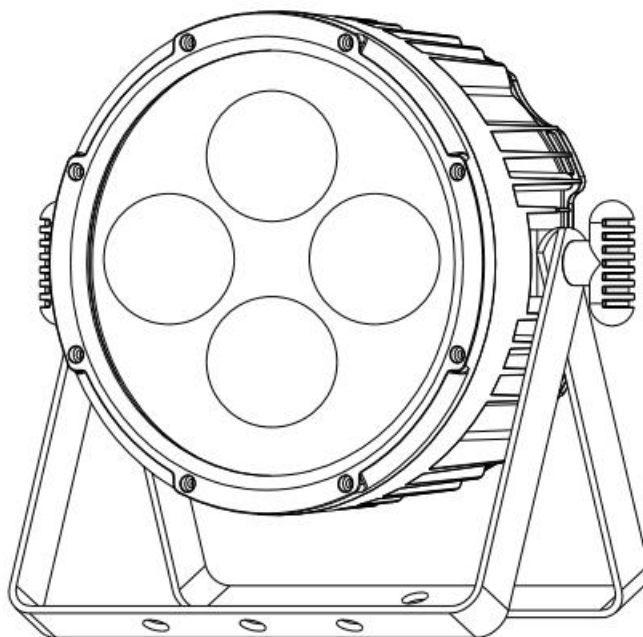


IP65 4x50W CW WW PAR CAN**USER MANUAL**

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	Photobiological 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.



(WEEE)

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

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 IP65.
- 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)

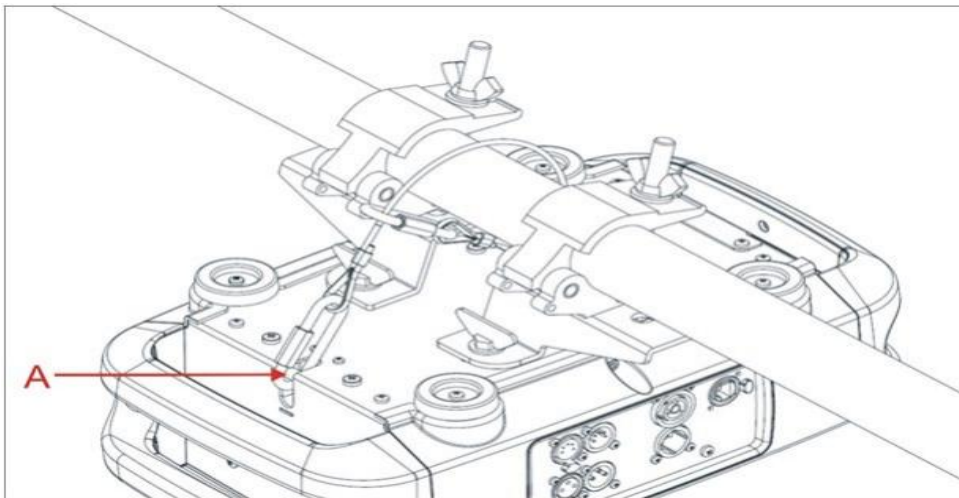
6.3 Safety Cable



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

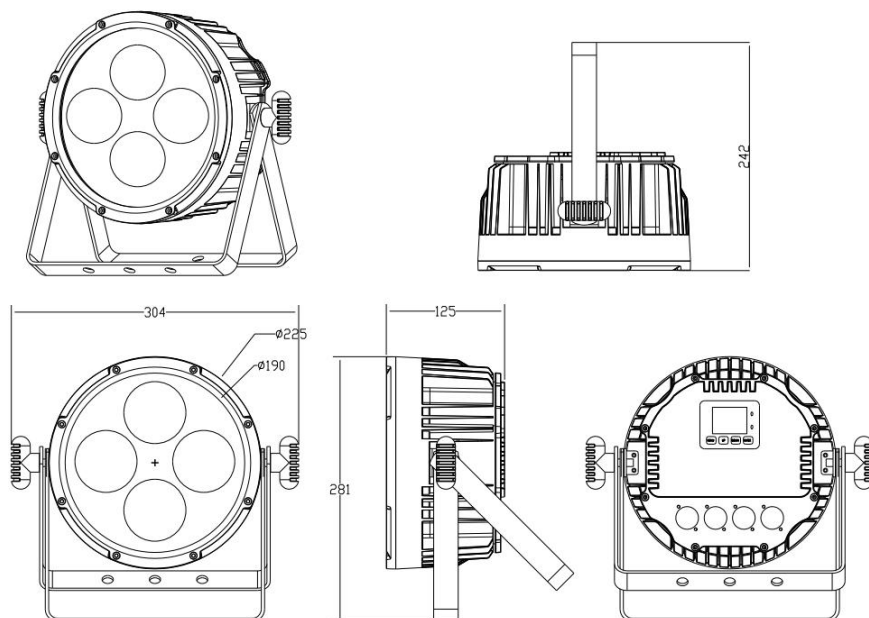
The safety cable used must be approved by a notified body according to IEC 60598-2-17 and must be capable of bearing at least 10 times the weight of the unit. For more information, please refer to an authorized service center.

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.

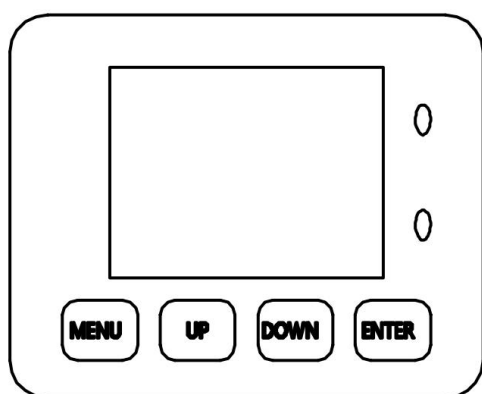


7 Product Features

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

MENU				DESCRIPTION
DMX (Function Mode)	Dmx Address	A001~AXXX		DMX Address Setting
	Channel Mode	17CH		17 Channel Mode
		8CH		8 Channel Mode
	Auto Run	Program1~8	Master/Alone	Auto Run
	Music Run	Program1~8	Master/Alone	Sound Control
SET (Fixture Set)	Reset Default	Yes/No		Reset Default
	ArtNet Function	ArtNet to DMX Device IP Addr: Host IP Addr: Universe: Share Signal	(On/Off) 192.168.001.201 192.168.001.001 000 (On/Off)	ArtNet Selection Device IP Address Host IP Address Values ArtNet Signal Sharing to DMX Output
	Mic Sensitivity	0~99%		MIC Sensitivity
	OFF Signal Mode	(On/Off)		No DMX Signal,OFF Remains the Original Status,ON Remains the Reset Status(OFF)
	Curve Select	Linear		Linear Curve
		S_Curve		S Curve
		SquareL		Square Curve
		InSquaL		In Square Curve
	LED_Freq	900Hz/1000Hz/1100Hz/1200Hz/1300Hz/1400Hz/1500Hz/2500Hz/4KHz/5KHz/10KHz/15KHz/20KHz/25KHz		LED PWM Frequency (1000Hz)
Manu (Manual)	Channel	Dimmer=XXX.....		Manual Channel Control
ADV (Advanced) (Access Code 088)	Calibration UID Code	PAN=XXX..... XX XX XX XX XX XX		Calibration UID Code Setting

General operation of the setup menu:

- Press UP and DOWN button simultaneously for 3 seconds,the display will reverse.
- The default selection for each setting is highlighted

7.4 DMX Chart

Mode/Channel		Value	Function
CH18	CH8		
1	1		Dimmer

		0..255	Dimmer 0%...100%
2	2		Dimmer Fine
		0..255	Dimmer Fine 0%...100%
3	3		Shutter
		0..31	Shutter closed
		32..63	Shutter open
		64..95	Strobe effect slow to fast
		96..127	Shutter open
		128..143	Opening pulse in sequences slow to fast
		144..159	Closing pulse in sequences fast to slow
		160..191	Shutter open
		192..223	Random strobe effect slow to fast
		224..255	Shutter open
3	3		Warm White
		0..255	0-100% Warm White dimmer from dark to bright
4			Warm_Fine
		0..255	0-100% Red Fine dimmer from dark to bright
5	4		Cold White
		0..255	0-100% Cold White dimmer from dark to bright
6			Cold_Fine
		0..255	0-100% Red Fine dimmer from dark to bright
7	5		Color Temp
		0..15	No Function
		16..45	Below 2700K
		46..75	3200K - 3500K
		76..105	3500K - 5000K
		106..135	5000K - 5500K
		136..165	5500K - 6000K
		166..195	6000K - 6500K
		196..225	6500K - 7000K
		226..255	7000K - 8000K
8	6		Macro RUN
		0..15	No function
		16..27	Macro Run 1
		28..39	Macro Run 2
		40..51	Macro Run 3
		52..63	Macro Run 4
		64..75	Macro Run 5
		76..87	Macro Run 6
		88..99	Macro Run 7
		100..111	Macro Run 8
		112..123	Macro Run 9
		124..135	Macro Run 10
		136..147	Macro Run 11
		148..159	Macro Run 12
		160..171	Macro Run 13

		172..183	Macro Run 14
		184..195	Macro Run 15
		196..207	Macro Sound 1
		208..219	Macro Sound 2
		220..231	Macro Sound 3
		232..243	Macro Sound 4
		244..255	Macro Sound 5
9	7		Macro Speed
		0..255	Macro Speed from Slow To Fast
10			Warm White of Led 1
		0..255	0-100% Warm White of Led 1 dimmer from dark to bright
11			Cold White of Led 1
		0..255	0-100% Cold White of Led 1 dimmer from dark to bright
12			Warm White of Led 2
		0..255	0-100% Warm White of Led 2 dimmer from dark to bright
13			Cold White of Led 2
		0..255	0-100% Cold White of Led 2 dimmer from dark to bright
14			Warm White of Led 3
		0..255	0-100% Warm White of Led 3 dimmer from dark to bright
15			Cold White of Led 3
		0..255	0-100% Cold White of Led 3 dimmer from dark to bright
16			Warm White of Led 4
		0..255	0-100% Warm White of Led 4 dimmer from dark to bright
17			Cold White of Led 4
		0..255	0-100% Cold White of Led 4 dimmer from dark to bright
18	8		Special function
		0..39	No function
		40..44	Linear Dimmer Curve
		45..49	S-Curve Dimmer Curve
		50..54	Square Dimmer Curve
		55..59	InvSquare Dimmer Curve
		60..255	No function
		60	900HZ LED refresh rate
		61	1000HZ LED refresh rate
		62	1100HZ LED refresh rate
		63	1200HZ LED refresh rate
		64	1300HZ LED refresh rate
		65	1400HZ LED refresh rate
		66	1500HZ LED refresh rate
		67	2500HZ LED refresh rate
		68	4000HZ LED refresh rate
		69	5000HZ LED refresh rate
		70	10K HZ LED refresh rate
		71	15K HZ LED refresh rate
		72	20K HZ LED refresh rate
		73	25K HZ LED refresh rate

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: 220W
- Fuse: F5A, 250V

Photometric

- Light Source: 4*50W CW WW LEDs
- LED Lifespan: 50,000hours
- 26°Beam angle

Effects

- Smooth Dimmer: 0~100%((4 user selectable dimming curves)
- Pulse effect
- Strobe:1-30Hz
- Each Pixel Control
- Color temperature linear up and down in 1800K-10000K
- Different kinds of preset macro effects with variable speed
- Outstanding strobe effect with variable speed
- 900-25K LED PWM frequency
- DMX recorder and manual memory function

Control

- Protocol: DMX512/RDM/ARTNET/sACN(Optional),,master-slave,sound activated or auto operation
- DMX Channels: 18/8
- Waterproof 3-pin XLR IN/OUT
- Waterproof PowerCON IN/OUT

- Display: 1.8 inch LCD display
- Wireless and IR(Optional)
- Firmware Upgrade: Upgrade via DMX link

Housing

- Materials: Aluminium die-cast
- Finishing: Matte black
- IP Rating: IP65
- Net Weight: 6.8kgs
- Gross weight:7.8kgs
- Product dimension:304*125*242mm
- Packing dimension:344*188*309mm
- Rigging: Power cable,signal cable

Cooling System

- Advanced cooling system integrated aluminum
- Constant temperature readout and management function
- Over temperature protection management

Working Environment

- Maximum Ambient Temperature:45℃
- Minimum Operating Temperature:-10℃
- Protection Rating:IP65

Approvals

- CE compliant
- RoHS compliant

10 Periodic check-ups



Warning! Disconnect from mains before serving

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.