

# User Manual

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## **18\*12W Wall Washer With Pixel Control**

This product manual contains important information about the safe installation and use of this product. Please read and follow these instructions carefully and keep this manual in a safe place for future reference

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# STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also cannot be responsible for any malfunction & problem owing to ignore the manual.



## IP65 RATED

An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The **International Protection (IP)** rating system is commonly expressed as "IP" (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An IP65 rated lighting fixture is one, which has been designed and tested to protect against the ingress of dust (6) and high-pressure water jets from any direction (5).

**MARINE/COASTAL ENVIRONMENT INSTALLATIONS!**  
**Please note although this fixture is IP rated, the fixture is NOT suitable for marine and/or coastal environment installations. Installing this fixture in a marine and/or coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a**

marine and/or coastal environment will void the manufactures warranty and will NOT be subject to any warranty claims and/or repairs.

**Ensure ALL connections and end caps are properly sealed with a non-conductive dielectric grease (available at most electrical suppliers) to prevent water ingress/condensation and/or corrosion.**

## **UNPACKING**

Every wall washer has been thoroughly tested and has been shipped in perfect operating 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 damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

# **ACCESSORIES**

**These items are packed together with the product:**

<b>Name</b>	<b>Quantity</b>	<b>Unit</b>	<b>Remark</b>
<b>USER MANUAL</b>	<b>1</b>	<b>PCS</b>	
<b>POWER CABLE</b>	<b>1</b>	<b>PCS</b>	

# SAFETY INSTRUCTION



The led par light is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer for this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.



This device falls under **PROTECTION CLASS1**. It's essential this device be grounded properly. Only qualified personnel should perform all electrical connections.



**C A U T I O N S**

**UNPLUG POWER BEFORE SERVICING FIXTURE**



**NEVER TOUCH FIXTURE DURING OPERATION AS IT MAY BE HOT**



**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE  
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK.**

- For proper operation, follow the **Installation** guidelines described in this manual. Only qualified and certified personnel should perform installation of this fixture and only the original rigging parts (brackets) included with this fixture should be used for installation. Any modifications will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.
- Never look directly into the light source of this fixture to prevent risk of injury to your retina, which may induce blindness. Those suffering from **EPILEPSY** should avoid looking directly into the light source of this unit at all times.
- Always disconnect from main power source before performing any type of

service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

- Do not operate this fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.

**NEVER OPEN THIS FIXTURE WHILE IN USE!**

- **Ensure ALL connections and end caps are properly sealed with a dielectric grease (available at most electrical suppliers) to prevent water corrosion and/or electrical short circuit.**

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.

- Please make sure there are **NO FLAMMABLE MATERIALS** close to the fixture while operating, to prevent any fire hazard.
- **Minimum** distance of inflammable materials from the surface 1.6 feet (0.5m).
- **DO NOT** attempt installation and/or operation without knowledge how to do so.
- **DO NOT** allow operation by persons who are not qualified to operate this type of fixture. Most damages are the result of operations by nonprofessionals.
- Consistent operational breaks may ensure the fixture will function properly for many years to come.
- **DO NOT** shake fixture, avoid brute force when installing and/or operating fixture.
- Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, also be sure the hardware is insert in the pre-arranged screw holes in the bracket of the fixture.

- Use the original packaging and materials to transport the fixture in for service.
- **DO NOT TOUCH** the housing bare-hand during its operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before replacing or serving.

## INSTALLATION:



### **FLAMMABLE MATERIAL WARNING**

**Keep fixture at least 5.0 ft (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.**



### **ELECTRICAL CONNECTIONS**

**A qualified electrician should be used for all electrical connections and/or installations.**

## **C A U T I O N S**

- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas where unauthorized personnel might reach the fixture.
- Min/Max ambient operating temperature for this fixture is 5°F to 113°F (-15°C to 45°C). Do not use the fixture under or above this temperature.
- Before mounting the fixture to any surface, make sure the installation area can hold a minimum point load of 10 times the weight of the fixture.
- Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.
- Never stand directly below the device when mounting, removing or servicing.
- **Ensure ALL connections and end caps are properly sealed with a dielectric grease (available at most electrical suppliers) to prevent water corrosion and/or electrical short circuit.**

## **POWER LINKING**

Max number of units that can be power linked is 10 units @110V-@240V.

## **CLAMP MOUNTING**

When mounting this fixture to truss be sure to secure an appropriately rated clamp using an M10 screw fitted through the center hole of the Dual Yoke / Floor Stand.

## **SECURING**

Regardless of the rigging option you choose for your wall washer always be sure to secure your fixture with a safety cable.

## **MOUNTING POINTS**

Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

## **SAFETY CABLE**

Always use a Safety Cable whenever installing this fixture in a suspended environment to ensure the fixture will not drop if the clamp fails.

# **UNDERSTANDING DMX**

## **DMX-512**

DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of



different manufactures to be linked together and operate from a single controller. This is possible as long as all the fixtures and the controller are DMX compliant. A DMX controller sends the DMX data instructions to the fixture allowing the user to control the different aspects of an intelligent light. DMX data is sent out as serial data that travels from fixture to fixture via data “IN” and data “OUT” XLR terminals located on the fixtures (most controllers will only have output jacks).

## **DMX LINKING**

To ensure proper DMX data transmission, always use the IP rated DMX cables listed in the ACCESSORIES section coming along with the par light. When using several DMX fixtures try to use the shortest cable path possible. Never split a DMX line with a “Y” style connector. The order in which the fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a starting DMX address of 1 may be placed anywhere in the DMX chain, at the beginning, at the end, or anywhere in the middle. The DMX controller knows to send data assigned to address 1 to that fixture no matter where it is located in the DMX chain. The wall washer can be controlled via DMX-512 protocol and the DMX address is set via the control menu.

## **DATA CABLE (DMX Cable) REQUIREMENTS (For DMX and Master/Slave Operation)**

Your fixture and your DMX controller require a standard 3pin connector for data input and data output. Also, remember that a DMX line must be daisy chained and cannot be split.

## **DMX ADDRESSING**

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to

“listen” to the digital control information sent out from the DMX controller. The allocation of this starting DMX address is achieved by setting the correct DMX address on the OLED display located on the back of the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different address for each individual fixture. Be advised that setting all fixtures to the same DMX address will subsequently control all fixtures in the same fashion, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of control channels (DMX channels) of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the par light, when in the 29 Channel Mode you should set the starting DMX address of the first unit to 1, the second unit to 30 (1 + 29), the third unit to 59 (30 + 29), and so on.

## **TECHNICAL SPECIFICATION**

### **Electronic**

Power supply: Electronic auto-ranging

Input voltage range: supply 90-240V, 50/60Hz

Power: 220W

### **Light Sources**

LED: TYANSHINE 18\*12W RGBWAP 6in1 LED

LED life: 50000 hrs

Beam Angle: 25°

### **Dimension**

Size: 100\*9\*18cm

Weight: 7.7kg

### **Control**

DMX Channel: 29/11/119/108Channel

Control Modes: DMX/Master-Slave/Auto

### **Construction**

Display: Digital Display

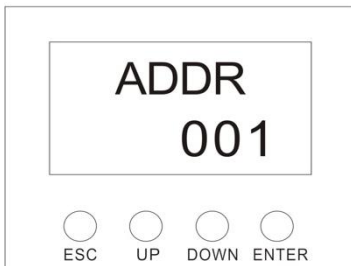
Data In/Out socket: 3-pin XLR sockets

Protection Rating: IP65

*Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice*

# **CONTROL SYSTEM**

## **DISPLAY:**



[ESC]:	MENU
[UP]:	+
[DOWN]:	-
[ENTER]:	CONFIRM

**MENU**      To select the programming functions

UP To go forward in the selected functions  
 DOWN To go backward in the selected functions  
 ENTER To confirm the selected functions

## OPERATING INSTRUCTION

1. Press **"Menu"** to "Set DMX Address", and press **"ENTER"** keys to enter into
2. Show "Set DMX Address DMX Address:001", Press the **"UP and DOWN"** keys to amended
3. Press **"ENTER"** keys to save and Exit, Press the **"MENU"** Keys does not save and Exit

## FIXTURE MENU:

### SYSTEM MENU

Specifications are subject to change without any prior written notice.

NO	Show	Function	Value	Instruction
1	A001	DMX address	001~512	UP,DOWN increase or reduce the value
2	29ch/ 11ch/ 119h/ 108h	Choose DMX mode		29ch/11ch/119ch/108ch mode, UP, DOWN change the mode,
3	CC00	Jump effect	01-99	UP,DOWN Change the speed
4	Ed00	Color Gradate	01-99	UP,DOWN Change the speed
5	Er00	Color jump 1	01-99	UP,DOWN Change the speed
6	Po00	Color jump 2	01-99	UP,DOWN Change the speed
7	tr00	Jump effect	00-21	UP,DOWN Change the effect
8	tU00	Jump effect	00-99	UP,DOWN Change the speed
9	bE50	Sound-Active	00-99	UP,DOWN Change the Sensitivity.

10	r200	Red	000~255	UP,DOWN Change brightness
11	G200	Green	000~255	UP,DOWN Change brightness
12	b200	Blue	000~255	UP,DOWN Change brightness
13	o200	White	000~255	UP,DOWN Change brightness
14	Y200	Amber	000~255	UP,DOWN Change brightness
15	P200	UV	000~255	UP,DOWN Change brightness

**Notice: Waterproof lamp is not with sound control function.**

### DMX Channel Values / Functions (11 Channel)

Channel	DMX Value	Function
CH1	000-255	Total Dimming, From dark to light
CH2	000-255	Strobe, Speed from slow to fast
CH3	000-035	Null
	036-045	Color jump(set ID, could do water effect)
	046-055	Color Gradate(set ID, could do water effect)
	056-065	Choose color, ch1 control
	066-075	Jump effect, ch1 control
	076-085	Gradate pulse effect, ch1 control
	086-095	Gradate effect 1, ch1 control
	096-105	Gradate effect 2, ch1 control
	.....	
	146-155	Gradate effect 7, ch1 control
	156-165	Gradate effect 8, ch1/ ch6-11 control
	.....	
	236-245	Gradate effect 15, ch1/ ch6-11 control
	246-255	Sound active
CH4	031-045	Gradate effect 1, ch1/ ch6-11 control
	046-060	Gradate effect 2, ch1/ ch6-11 control
	.....	
	240-255	Gradate effect 15, ch1/ ch6-11 control
		0-127 water effect to left; 128-255, water effect to right

CH5	000-255	Speed control
CH6	000-255	R Dimmer- Dark to Bright
CH7	000-255	G Dimmer- Dark to Bright
CH8	000-255	B Dimmer- Dark to Bright
CH9	000-255	W Dimmer- Dark to Bright
CH10	000-255	A Dimmer- Dark to Bright
CH11	000-255	UV Dimmer- Dark to Bright

### DMX Channel Values / Functions (29 Channel)

Channel	DMX Value	Function
CH1	000-255	Total Dimming, From dark to light
CH2	000-255	Strobe, Speed from slow to fast
CH3	000-025	Null
	026-035	Choose color, water effect, ch1-20 control
	036-045	Color jump(set ID, could do water effect)
	046-055	Color Gradate(set ID, could do water effect)
	056-065	Choose color, ch1 control
	066-075	Jump effect, ch1 control
	076-085	Gradate pulse effect, ch1 control
	086-095	Gradate effect 1, ch1 control
	096-105	Gradate effect 2, ch1 control
	.....	
	146-155	Gradate effect 7, ch1 control
	156-165	Gradate effect 8, ch1/ ch6-11 control
	.....	
	236-245	Gradate effect 15, ch1/ ch6-11 control
246-255	Sound active	
CH4	031-045	Gradate effect 1, ch1/ ch6-11 control
	046-060	Gradate effect 2, ch1/ ch6-11 control
	.....	
	240-255	Gradate effect 15, ch1/ ch6-11 control
		0-127 Water effect to left; 128-255, water effect to right

CH5	000-255	Speed control
CH6	000-255	R Dimmer - Dark to Bright
CH7	000-255	G Dimmer - Dark to Bright
CH8	000-255	B Dimmer - Dark to Bright
CH9	000-255	W Dimmer - Dark to Bright
CH10	000-255	A Dimmer - Dark to Bright
CH11	000-255	UV Dimmer - Dark to Bright
CH12	000-255	1# RGBWAUV dimmer - Dark to Bright
CH13	000-255	2# RGBWAUV dimmer - Dark to Bright
CH14	000-255	3# RGBWAUV dimmer - Dark to Bright
.....	.....	.....
CH29	000-255	14# RGBWAUV dimmer- Dark to Bright

### DMX Channel Values / Functions (108 Channel)

Channel	Function	Instruction
CH1	000-255	1# R Dimmer - Dark to Bright
CH2	000-255	1# G Dimmer - Dark to Bright
CH3	000-255	1# B Dimmer - Dark to Bright
CH4	000-255	1# W Dimmer - Dark to Bright
CH5	000-255	1# A Dimmer - Dark to Bright
CH6	000-255	1# UV Dimmer - Dark to Bright
CH7	000-255	2# R Dimmer - Dark to Bright
CH8	000-255	2# G Dimmer - Dark to Bright
CH9	000-255	2# B Dimmer - Dark to Bright
CH10	000-255	2# W Dimmer - Dark to Bright
CH11	000-255	2# A Dimmer - Dark to Bright
CH12	000-255	2# UV Dimmer - Dark to Bright
...	.....	.....
CH108	000-255	18# UV Dimmer - Dark to Bright

## DMX Channel Values / Functions (119 Channel)

Channel	DMX Value	Function
CH1	000-255	Total Dimming, From dark to light
CH2	000-255	Strobe, Speed from slow to fast
CH3	000-025	Null
	026-035	Choose color,water effect,ch1-20 control
	036-045	Color jump(set ID, could do water effect)
	046-055	Color Gradate(set ID, could do water effect)
	056-065	Choose color, ch1 control
	066-075	Jump effect, ch1 control
	076-085	Gradate pulse effect, ch1 control
	086-095	Gradate effect 1, ch1 control
	096-105	Gradate effect 2, ch1 control
	.....	
	146-155	Gradate effect 7, ch1 control
	156-165	Gradate effect 8, ch1/ ch6-11 control
	.....	
	236-245	Gradate effect 15, ch1/ ch6-11 control
	246-255	Sound active
	031-045	Gradate effect 1, ch1/ ch6-11 control
	046-060	Gradate effect 2, ch1/ ch6-11 control
	.....	
	240-255	Gradate effect 15, ch1/ ch6-11 control
0-127 water effect to left; 128-255, water effect to right		
CH5	000-255	Speed control
CH6	000-255	R Dimmer- Dark to Bright
CH7	000-255	G Dimmer- Dark to Bright
CH8	000-255	B Dimmer- Dark to Bright
CH9	000-255	W Dimmer- Dark to Bright
CH10	000-255	A Dimmer- Dark to Bright



CH11	000-255	UV Dimmer- Dark to Bright
CH12	000-255	1# R Dimmer - Dark to Bright
CH13	000-255	1# G Dimmer - Dark to Bright
CH14	000-255	1# B Dimmer - Dark to Bright
CH15	000-255	1# W Dimmer - Dark to Bright
CH16	000-255	1# A Dimmer - Dark to Bright
CH17	000-255	1# UV Dimmer - Dark to Bright
CH18	000-255	2# R Dimmer - Dark to Bright
CH19	000-255	2# G Dimmer - Dark to Bright
CH20	000-255	2# B Dimmer - Dark to Bright
...	.....	.....
CH119	000-255	18# UV Dimmer - Dark to Bright

# CLEANING AND MAINTENANCE



**C A U T I O N**

**Disconnect power before cleaning or maintenance.**

## CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics.

- Clean the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation. Never use alcohol, solvents, or ammonia based cleaners.

## **MAINTENANCE**

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to our service technician. Should you need any spare parts, please order genuine parts from your dealer.

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every 3 months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation resulting in damage or injury.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Inspect all moving parts and make sure there are no signs of wear and rotate/move without imbalances.
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.