



VK1812 & VK2412 BLAZE LED Par *5in1 RGBWA*



User Manual

Thank you for purchasing LED Tour Par 18, Every unit 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 fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. You now own a professional lighting unit that offers endless possibilities.

For your own safety and that of others, please read this instruction manual carefully before installing the unit.

Anyone involved in installing, operating or servicing the LED Tour Par 18 must:

- **Be a qualified, authorized professional**
- **Strictly follow the instructions in this user manual.**

Please take the time to read this manual carefully and thoroughly before installing and operating the luminaire. You should have a good knowledge of its operating conditions and all pertinent product information.

After you have become familiar with this manual, we recommend that you keep a copy for future use. All the information found in this manual

is subject to change without notice. We reserves the right to modify and upgrade its range of products, with no obligation to integrate these changes into products already sold.

Warning

- To prevent or reduce the risk of electrical shock or fire ,do not expose the unit to rain or moisture.
- Do not open the unit within five minutes after switching off.
- Please consider that damages caused by manual modifications to the device are not subject to warranty.

Installation

The unit should be mounted via its screw holes on the bracket.Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating.And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit' s weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals.And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

Features and Specifications

- Light Source: 24 x 12W RGBWA 5in1 LED
- Beam Angle: 25° (Other optional)
- DMX channel: 1/5/6/7/13 channels
- 4 Dimmer Curve
- Display: OLED touch display
- Data In/Out: 3-pin or 5-pin XLR IP65
- Power In/Out: Waterproof PowerCon in/out
- Protection Rating: IP65
- PMW Rated: 900~10000Hz
- Outstanding color mixing effect
- Double hanger design, multiple installation options
- 0~100% smooth dimming
- Various strobe speeds
- Power Voltage: AC 100~240V, 50/60Hz
- Power Consumption: 200W
- Work environment : -5°C~45°C
- SIZE: 297mm x 157mm x 290mm
- N.W: 6.5 kg
- Carton Size: 28.5x28.5x31cm
- Gross Weight: 7KG

⚠ CAUTION

**HIGH
INTENSITY
ULTRAVIOLET
LIGHT**



AVOID DIRECT EYE & SKIN EXPOSURE.
WEAR PROPER EYE & SKIN PROTECTION.
SEE MANUAL FOR SAFETY INSTRUCTIONS.

RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET (UV)

RADIATION! FIXTURE EMITS HIGH INTENSITY ULTRAVIOLET (UV)

LIGHT FROM THE UV LED. WEAR PROPER EYE AND SKIN

PROTECTION.

AVOID PROLONGED PERIODS OF EXPOSURE TO THE UV LED.

AVOID WEARING WHITE COLOUR CLOTHING AND/OR USING (UV) PAINTS ON SKIN.

AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES SHORTER THAN 11

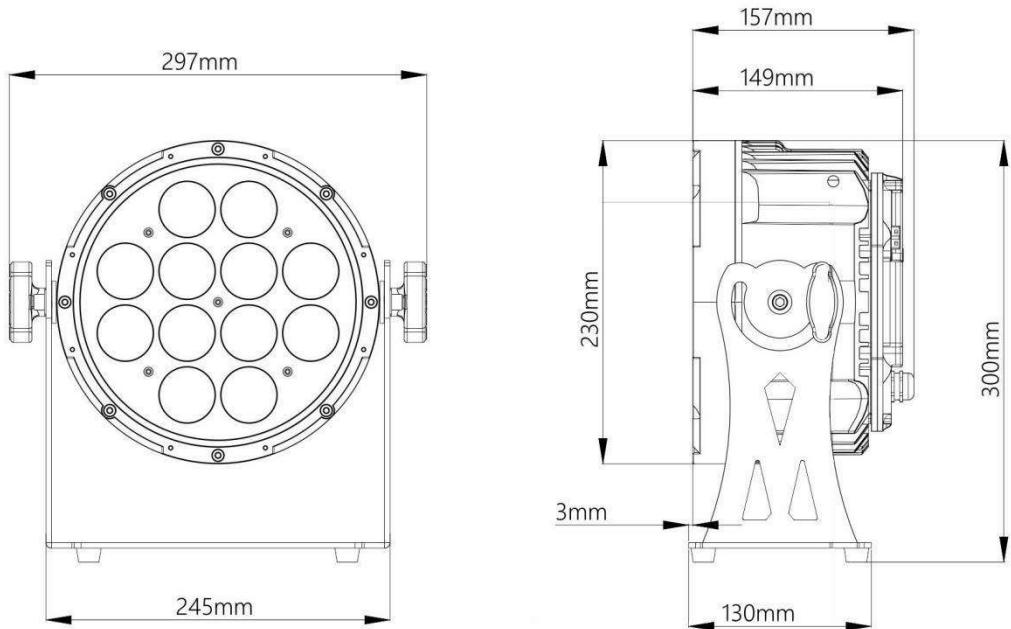
feet (3.3m). DO NOT OPERATE FIXTURE WITH DAMAGED OR MISSING EXTERNAL

COVER.

DO NOT LOOK DIRECTLY INTO THE (UV) LIGHT AND/OR VIEW (UV) LIGHT
DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE
LIGHT/RADIATION OUTPUT.

INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT
EXPOSURE DISORDERS, OR INDIVIDUALS USING PHOTOSENSITIVE MEDICATION,
MAY RECEIVE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET (UV) LIGHT EMITTED
FROM THIS FIXTURE.

Product View



Control Panel

The control panel is the mechanism for configuring the LTP12 settings. It has a small LCD screen and four buttons, which are described below.

Button	Function
<MENU>	Scrolls through the first level of options, or exits from the current menu or function
<UP>	Navigates upward through the menu list or increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list or decreases the numeric value when in a function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function

DMX Set Up

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation): The LED TOUR PAR 12 can be controlled via DMX-512 protocol. The LED TOUR PAR 18 has 4 DMX channel modes. The DMX address is set on the back panel of the LED TOUR PAR 18. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). We recommend Accu-Cable DMX cables. If you are making Your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.



Figure 1

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



Figure 2

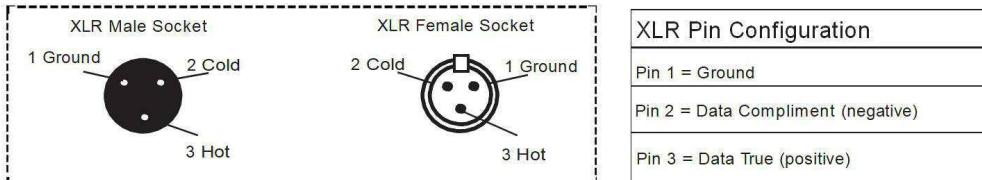
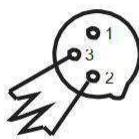


Figure 3

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator will decrease the possibilities of erratic behaviour.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

5-Pin XLR DMX Connectors. Some manufacturers use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables into a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

Product View

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 signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way, 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 DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the LED TOUR PAR 18, when in 13 channel mode you should set the starting DMX address of the first unit to 1, the second unit to 14 (13 + 1), the third unit to 27 (14 + 13), and so on. (See chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
1 channels	1	2	3	4
5 channels	1	6	11	16
6 channels	1	7	13	19
7 channels	1	8	15	22
13 channels	1	14	27	40

Menu Structure

DMX Address	001-512			
DMX Mode	1CH			
	5CH			
	6CH			
	7CH			
	13CH			
Stand Alone	Auto	Program 1	Dim	000-255
		Program 2	Speed	000-255
		Program 3		
			
		Program 12		
	ColourMacro	Color Off	000-005	
		Color1~35	006-255	
	Manual	Dimmer	000-255	
		Strobe	0~30Hz	
		Red	000-255	
		Green	000-255	
		Blue	000-255	
		White	000-255	
		Amber	000-255	
Slave	CCT	Dimmer	000-255	
		1000~8000K		
	Yes/No			
Settings	Display Reverse	On	Display Reverse	
		Off	Normal	
	Display Backlight	On	Normal	
		Off	Display off after 1 minute	
	DMX Fail	Hold	Keep the last status	
		Blackout		
		Emergency light		
	Dimmer Curve	Standard		
		Stage		
		TV		
		Architectural		
		Theatre		

	Output Set	Standard		Normal output
		Full		Full output
	AutoLock	On		
		Off		
	Dimmer Response	LED		
		Halogen		
	PWM Rate	900Hz		
		1000Hz		
		1100Hz		
		1200Hz		
		1300Hz		
		1400Hz		
		1500Hz		
		2500Hz		
		4000Hz		
		5000Hz		
		6000Hz		
		10000Hz		
	Service	Reset	Passcode	Code: down, down, down, up, down, down, down, up
		Calibration	Passcode	Code: down, up, down, up, down, down, down, down, down.
System Info	Firmware	V1.0		
	Operation Hours	xxxHrs		
	Temperature	xx°C		
	RDM	Id number	0890h	

DMX Channels

1 DMX Channels:

1 CH	VALUES	FUNCTIONS
1	000-255	Master dimmer 0~255

5 DMX Channels:

6 CH	VALUES	FUNCTIONS
1	000-255	RED 0%-100%
2	000-255	GREEN 0%-100%
3	000-255	BLUE 0%-100%
4	000-255	WHITE 0%-100%
5	000-255	Amber 0%-100%

6 DMX Channels:

7 CH	VALUES	FUNCTIONS
1	000-255	RED 0%-100%
2	000-255	GREEN 0%-100%
3	000-255	BLUE 0%-100%
4	000-255	WHITE 0%-100%
5	000-255	Amber 0%-100%
6	000-255	Master Dimmer 0~255%

7 DMX Channels:

8 CH	VALUES	FUNCTIONS
1	000-255	RED 0%-100%
2	000-255	GREEN 0%-100%
3	000-255	BLUE 0%-100%
4	000-255	WHITE 0%-100%
5	000-255	Amber 0%-100%
6	000-255	Master Dimmer 0~255%
7		SHUTTER & STROBING
	000-031	LED Off
	032-063	LED On
	064-095	Strobing Slow - Fast
	096-127	LED On
	128-159	Pulse Strobing
	160-191	LED On
	192-223	Random Strobing Slow - Fast
	224-255	LED On

13 DMX Channels:

13 CH	VALUES	FUNCTIONS
1	000-255	RED 0%-100%
2	000-255	GREEN 0%-100%
3	000-255	BLUE 0%-100%
4	000-255	WHITE 0%-100%
5	000-255	AMBER 0%-100%
6	000-255	Master dimmer 0~255%
7		SHUTTER & STROBING
	000-031	LED Off
	032-063	LED On
	064-095	Strobing Slow - Fast
	096-127	LED On

	128-159	Pulse Strobing
	160-191	LED On
	192-223	Random Strobing Slow - Fast
	224-255	LED On
8		COLOUR MACROS
	000-007	No Effect
	008~255	Colour MACROS
9		Auto Programs
	000-019	No function
	020-039	Program 1
	020-039	Program 2
	020-039	Program 3
	020-039	Program 4
	020-039	Program 5
	020-039	Program 6
	020-039	Program 7
	020-039	Program 8
	020-039	Program 9
	020-039	Program 10
	020-039	Program 11
	020-039	Program 12
10		Auto Program Speed
	000-255	From slow to fast
11		Colour Temperature
	000-005	No function
	006-031	1000K
	032-063	2000K
	064-095	3000K
	096-127	4000K
	128-159	5000K
	160-191	6000K
	192-223	7000K
	224-255	8000K
		DIMMER MODES
12	000-010	Default to Unit Setting
	011-020	Standard
	021-040	Stage
	041-060	TV

	061-080	Architectural
	081-100	Theatre
	101-120	Stage 2
DIMMER DELAY TIME		
	121	0.1Sec.
	122	0.2Sec.
	123	0.3Sec.
	124	0.4Sec.
	125	0.5Sec.
	126	0.6Sec.
	127	0.7Sec.
	128	0.8Sec.
	129	0.9Sec.
	130	1.0Sec.
	131	1.5Sec.
	132	2.0Sec.
	133	3.0Sec.
	134	4.0Sec.
	135	5.0Sec.
	136	6.0Sec.
	137	7.0Sec.
	138	8.0Sec.
	139	9.0Sec.
	140	10Sec.
	141-255	Default to Unit Setting
13		Refresh Rate
	000-010	No Function
	011-020	900HZ
	021-030	1000HZ
	031-040	1100HZ
	041-050	1200HZ
	051-060	1300HZ
	061-070	1400HZ
	071-080	1500HZ
	081-090	2500HZ
	091-100	4000HZ
	101-110	5000HZ
	111-120	6000HZ
	121-130	10000HZ
	131-255	Set Refresh Rate to Unit default

Troubleshooting

Following are a few common problems that may occur during Operation. Here are some suggestions for easy troubleshooting:

1. The unit does not work,no light and the fan does not work
 - a. check the connection of power and main fuse.
 - b. Measure the mains voltage on the main connector.
 - c. Check the power on Led.
2. Not responding to DMX controller
 - a. DMX LED should be on. If not ,check DMX connectors,cables to see if link properly.
 - b. If the DMX LED is on and no response to the channel,check the address settings and DMX polarity.
 - c. If you have intermittent DMX signal problems,check the pins on connectors or on PCB of the unit or the previous one.
 - d. Try to use another DMX controller.
 - e. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.
3. Some units don't respond to the easy controller
 - a. You may have a break in the DMX cabling. Check the LED for the response of the master/slave mode signal.
 - b. Wrong DMX address in the unit .Set the proper address.

4. One of the channels is not working well
 - a. The stepper motor might be damaged or the cable connected to the PCB is broken.
 - b. The motor's drive IC on the PCB might be out of condition

5. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates :damp,smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- a. Clean with soft cloth using normal glass cleaning fluid.
- b. Always dry the parts carefully.

Warranty

The LED Tour Par 12 fixture is guaranteed against manufacturing defects for the duration of one (1) year from the date of purchase.

This warranty does not cover the unit for evidence of physical shock or damage caused by abuse or any use not in accordance with the operating conditions set forth in the present user manual.

In addition, cosmetic defects caused by the normal wear and tear of the unit are not covered under the warranty.

Any modification to the fixture will void the warranty. We cannot under any circumstances be held liable for quality and conformity regarding the installation of this product, which is the responsibility of the installer. the device and before use, may be covered by the warranty.

The manufacturer is not responsible for any errors or omissions that may occur in this document. All information contained in this manual is subject to change without notice.