AZTEC
ELECTRONIC

AZTEC LED PAR-48 RGBW

USER INSTRUCTION
MANUAL

Unpacking: Thank you for purchasing the LED PAR WASH-48 x 3 Watt RGBW by AZTECELECTRONIC®. Every LED PAR WASH-48 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 our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: The LED PAR WASH-48 is part of AZTEC-ELECTRONIC''s continuing pursuit for creating high quality affordable intelligent fixtures. The LED PAR WASH-48 is a DMX intelligent LED PAR WASH Lights. This LED PAR WASH-48 is light weight and compact which makes it a great piece for mobile DJ's, clubs, theater, stage and many other applications. The LED PAR WASH-48 has 4 operating modes; sound-active, auto mode, Manual mode, or controlled via DMX controller. It can be used as a stand alone unit or in a master-slave configuration.

Customer Support: AZTEC-ELECTRONICS provides a toll free customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.aztec-electronics.com for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time. E-mail:
support@aztec-electronic.com

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact AZTEC-ELECTRONIC DEALER / DISTRIBUTOR.

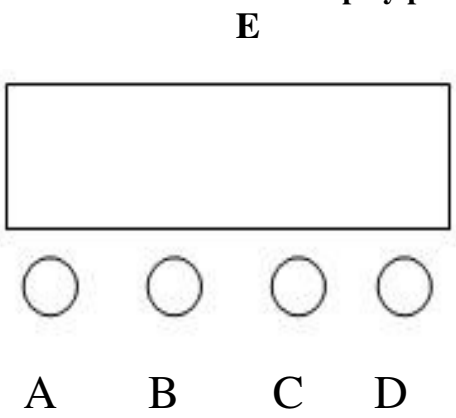
PLEASE recycle the shipping carton when ever possible.

P**ower Supply:** Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your AZTEC LED PAR WASH-48. The AZTEC LED PAR WASH-48 is available in 220v version. Because line voltage may vary from venue to venue, you should be sure your unit voltages match the wall outlet voltage before attempting to operate you fixture.

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 manufactures 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.

The Introduction of LED display panel:



A. Menu
B. UP
C. Down
D. Enter
E. LED Display Window

Press **A** button, there will be eight different effects.
The first two letters stands for functions (refer to Diagram II)
The last two letters stands for DMX address, or speed,.
You can modify it with **B** or **C** button. And press **D** button for confirmation.

Function of LED Display Window (press button D to confirm all the function)

No	Display	Function
1	D0001	CH8 Add Code, with B. C button to change the code(001-512)
2	CC00	Color Pulse Speed, adjustable by B or C button(01-99)
3	CP00	Color Change Speed, adjustable by B or C button(01-99)
4	DE00	Color Mixed Change, changing speed adjustable by B or C button(01-99)
5	BEBE	Music activated
6	R220	Red, with B. C button to change the color(0-255)
7	G220	Green with B. C button to change the color(0-255)
8	B220	Blue, with B. C button to change the color(0-255)
9	A220	Amber, with B. C button to change the color(0-255)

Explanation of DMX512 Channel

Channel	Function	Explanation
CH1	General Dimmer	R.G.B.A linear 0%-100% dimmer, from dark to bright
CH2	General Strobe	R.G.B.A strobe, from slow to fast
CH3	Control Mode selection	0-50 CH8 control, 51-100 color pulse , 101-150 gra change, 151-200 slow change 201-255 s control
CH4	Control Mode Speed	From slow to fast
CH5	R Dimmer	Red(1-255, dimmer, from dark to bright)
CH6	G Dimmer	Green (1-255, dimmer, from dark to bright)
CH7	B Dimmer	Blue (1-255, dimmer, from dark to bright)
CH8	A Dimmer	Amber(1-255, dimmer, from dark to bright)

Operating Modes:

You can use the Micro Wash RGBW in five ways:

- Sound-Active mode - The unit will react to sound, chasing through the built in programs.
- Macro Mode - There are 32 color macros to choose from.
- Auto Mode - There are 8 built in programs to choose from.
- RGB mode - Control the intensity of all four colors adjusting the intensity to your desire to create you own desired color.
- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller such as as the AZTEC Lighting Controller Series.

Data Cable (DMX Cable) Requirements (For DMX Operation): The LED PAR-48 RGBW can be controlled via DMX-512 protocol. The LED PAR-48 RGBW is an eight channel DMX unit. The DMX address is set on the back panel LED Display of the LED PAR-48 RGBW. Your unit and your DMX controller require a approved DMX-512 110 Ohm Data cable for data input and data output. We recommend AZTEC / Neutrik-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 professional sound and 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.

programmed to act as the "Master."

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 behavior.

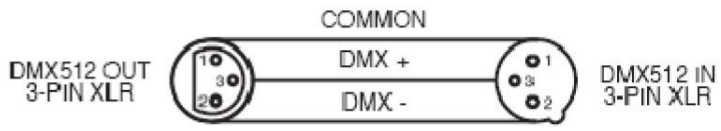


Figure 2

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)

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 behavior. 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 (AZTEC part number DMX/T) will decrease the possibilities of erratic behavior.

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 manufactures 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 in to 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

Operating Modes:

You can use the AZTEC LED PAR-48 RGBW in four ways:

- Sound-Active mode -The unit will react to sound, chasing through the built in programs.
- Auto Mode -The unit will automatically chase through the different colors.
- RGB Mode -Choose a single color or colors to stay static.
- DMX control mode -This function will allow you to control each individual fixtures traits with a standard DMX 512 controller such as as the Martin Light Jockey / AZTEC CX-12ii™.

Sound Active Mode:

In this mode the AZTEC LED PAR-48 RGBW will react to sound, and chase through the different Dimming.

1. Plug the fixture in and Change Mode to “BEBE”
2. The fixture will now change via sound.

Auto Mode:

1. Plug the fixture in and put Display Mode into CC/CP/DE.
2. Adjust the speed by Button Up and Down to adjust programs.

RGBW Mode:

1. Plug the fixture in and put Display Mode into R/G/B/A from 01-512 to adjust from Darkest to Brightest.

DMX Mode:

Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights. To help set up DMX Control refer to the set-up specifications that come with your DMX controller as well.

1. This function will allow you to control each individual fixture’s traits with a standard DMX 512 controller such as: AZTEC CX-12ii Lighting Controller
2. The LED PAR-48 RGBW uses eight DMX channels to operate. To Set DMX Channel put Display Mode into D001-512
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your desired DMX address

Master-Slave Operation:
This function will allows you to link units together to run in a Master-Slave mode. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units built-in programs. Any unit can act as a Master or as a Slave however, only one unit can be programmed to act as the "Master."

Master-Slave Connections and Settings:
1. Daisy chain your units via the XLR connector on the rear of the unit. Use standard XLR microphone cables to link your units together. Remember that the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.

2. Using the Master unit, choose your desired mode of operation and connect the "Slave" unit or units.
3. Set all the dipswitces on the "Slave" unit(s) to the "Off" position. The "Slave" unit(s) will now follow the "Master" unit.

TROUBLESHOOTING

Listed below are a few common problems the user may encounter, with solutions.

Unit not responding to DMX:
1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.
Unit does not respond to sound:
1. Quiet or high pitched sounds will not activate the unit.
If problems are not resolved; Contact AZTEC-ELECTRONICS DISTRIBUTOR & DEALERS for service.
www.aztec-electronic.com / www.aztec-electronics.com
support@aztec-electronic.com / info@aztec-electronic.com

CLEANING

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.
1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in. Cleaning frequency depends on the environment in which the fixture

operates (i.e. smoke, fog residue, dust, dew).

LED PAR 48 - RGW Technology

Features

* Light Source : 48 High power 3w LEDs (12Red, 12Green, 12Blue, 12White).
* Power supply : AC 220v, ± 10% 50Hz.
* Power Consumption : 200w.
* Beam Angle : 25° /30°.
* Illumination Intensity : 14360Lx @1m.
* Control Channels : 5 /7 /11.
* Control Signal : DMX-512, Auto mode, Master /Slave mode.
* Input Signal : XLR 3-Pin (in & out).

PHYSICAL SPECIFICATIONS
Weight: 5,1 kg ; Height: 15 cm.
Width: 34 cm ; Depth: 42,5 cm.

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