

The fixture you've received is a rugged, tough piece of pro lighting equipment, and as long as you take care of it, it will take care of you. That said, like anything, you'll need to take care of it if you want it to operate as designed.

In transit, keep the fixtures in cases.

Common sense and taking care of your fixtures will be the single biggest thing you can do to keep them running at peak performance and let you worry about designing a great light show, putting on a great concert, or maximizing your client's satisfaction

**Damage incurred in shipping is the responsibility of the shipper, and must be reported to the carrier immediately upon receipt of the items. Claims must be made within seven (7) days of receipt.**

<b>Weight &amp; Dimensions</b>	
Length	8.25 inches (210 mm)
Width	2.5 inches (63.5 mm)
Height	8.25 inches (210 mm)
Weight	4.0 lbs (1.8 kg)
<b>Power</b>	
Operating Voltage	100-240VAC, 50-60 Hertz
Fuse	3A 250V
Power Consumption	20W
<b>Light Source</b>	
LED	144x 10mm 100K Hrs
<b>Optical</b>	
Beam Angle	21 degrees 32 degree field
Luminous Intensity	3,000 Lux @ 1m
<b>Thermal</b>	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
<b>Control</b>	
Protocol	USITT DMX-512
DMX Channels	7
Input	3-pin XLR Male
Output	3-pin XLR Female
Other Operating Modes	Standalone, Master/Slave, Sound Active, Color Preset, Standalone color mixing

## SLIM PAR64 144 RGBW / RGBA LED PAR CAN

### 144 LED FLAT LED PAR CAN



### USER MANUAL

## GETTING STARTED

### What's In The Box?

- 1 x RGBW / RGBA Flat LED PAR Fixture
- 1x IEC Power Cord

Carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to the factory, it is important that it be returned in the original packing.

### Powering Up

All fixtures must be powered directly off a switched circuit and **cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.**

## SAFETY INSTRUCTIONS

- Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.
- This product is intended for indoor use only.
- To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- ALWAYS disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type.
- ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its cord. Use its carrying handles.
- DO NOT operate at ambient temperatures higher than 104°F (40°C).
- In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- NEVER connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

**Caution!** There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself.

## CONTROL FEATURES

- Color mixing via 144 10mm Red, Green, Blue, White / Amber LEDs
- Variable electronic strobe
- Variable electronic dimmer
- Built-in automated programs via DMX and master/slave
- Built-in sound active programs
- Full RGBA color mixing in standalone and master/slave
- 7-Channel DMX Control

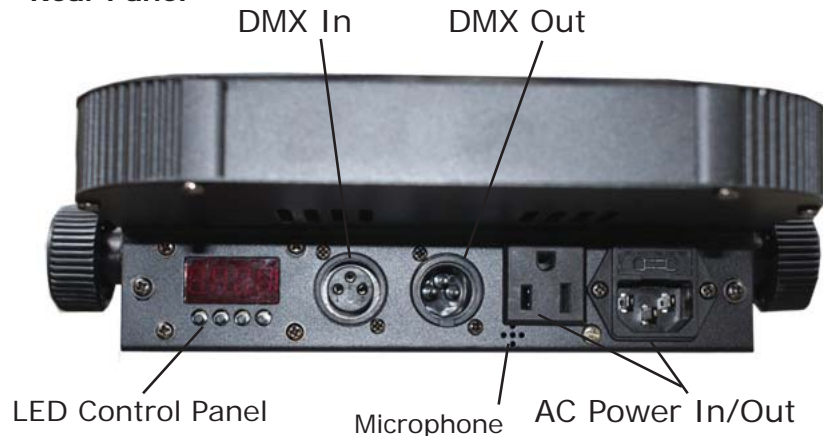
## ADDITIONAL FEATURES

- Lightweight and Compact
- 4-Button LED control panel for easy programming
- Light source: 144x 10mm LEDs, 36 each RGBW / RGBA
- Dual bracket for flexibility in mounting
- Power outlet for fixture linking (up to 50 fixtures)

## DMX Specification (7-Channel Mode)

Channel	Function
1	Dimmer
2	Red Intensity
3	Green Intensity
4	Blue Intensity
5	White / Amber Intensity
6	Strobe (0-15 off, 16-255 strobe slow <-> fast)
7	Color Macros (slow <-> fast)

## Rear Panel



## Connecting Multiple Flat LED PARs

You will need a serial data link to run light shows using a DMX-512 controller or to run shows on two or more fixtures set to sync in master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Fixtures on a serial data link must be daisy chained in one single line. Also, connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.

The maximum recommended cable-run distance is 500 meters (1640 ft). The maximum recommended number of fixtures on a serial data link is 32 fixtures.

## Data/DMX Cabling

To link fixtures together you'll need data cables. You should use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

For instance, Belden© 9841 meets the specifications for EIA RS-485 applications. Standard microphone cables will probably be OK, but note that they cannot transmit DMX data as reliably over long distances. In any event, the cable should have the following characteristics:

- 2-conductor twisted pair plus a shield*
- Maximum capacitance between conductors – 30 pF/ft.*
- Maximum capacitance between conductor & shield – 55 pF/ft.*
- Maximum resistance of 20 ohms / 1000 ft.*
- Nominal impedance 100 – 140 ohms*

## Troubleshooting

Symptom	Solution
Fixture Auto-Shut Off	Check the fan in the fixture. If it is stopped or moving slower than normal, the unit may have shut itself off due to high heat. This is to protect the fixture from overheating. Clear the fan of obstructions, or return the unit for service.
Beam is Dim	Check optical system and clean excess dust/grime. Also ensure that the 220V/110V switch is in the correct position, if applicable.
No Light Output	Check to ensure fixture is operating under correct mode, IE sound active/auto/DMX/Etc., if applicable. Contact service for more information.
Chase Speed Too Fast/Slow	Check to ensure proper setup of speed adjustment.
No Power	Check fuse, AC cord and circuit for malfunction.
Blown Fuse	Check AC cord and circuit for damage, verify that moving parts are not restricted and that unit's ventilation is not obstructed
Slow Movement	Verify that 220V/110V switch is in the correct position, if applicable. Also check that speed channels are set appropriately.
No Response to Audio	Verify that the fixture is in "Sound Active" mode. Adjust Audio Sensitivity, If Applicable.
Fixture Not Responding / Responding Erraticly	Make sure all connectors are seated properly and securely. Use Only DMX Cables. Install a Terminator. Check all cables for defects. Reset fixture(s).
Intermittant Lamp	Check lamp for properly installation. Relamp, lamp may have reached end of life.
Remote Doesn't Work	Verify remote control cable is installed properly and securely. Verify remote is correct type (CA-9 or other as applicable.)
Fixture Moving On Its Own	Verify proper mode of operation. Is the fixture in "Auto" mode?

## OPERATING ADJUSTMENTS

**NOTE:** After making any adjustment, the fixture will return to the correct mode after approximately 5 seconds.

### DMX Mode

Allows the unit to be controlled by any universal DMX controller.

- 1.) The default mode for the fixture is DMX, which appears as *Addr* on the LED Readout. Use the <ENTER> button then the <UP> and <DOWN> buttons to choose a channel between *1* and *512*. Press <ENTER> again to confirm.

### Master/Slave Mode (Auto/Sound Active/Color Preset/Custom):

Allows you to link up to 32 units together without a controller.

- 1.) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units.
- 2.) Choose a unit to function as the Master. Select MAST. The master unit must be the first unit. Finally, chain the units together using DMX cable.  
Master *SLND* then *MAST* to confirm.
- 3.) Select slave function by using the <UP>/<DOWN> keys to reach SLAV in the Master/Auto menu on the slave units, and they will react in the same as the Master.  
Slave *SLND* then *SLAV* to confirm.
- 4.) On the master fixture, use the <UP>/<DOWN> keys to reach SHND, which allows you to select the Master/Slave mode.  
Sound active *SOUn* then <ENTER> to confirm.  
Auto mode *COLO* then *AUTO*, then <ENTER> to confirm.  
Color preset *COLO* then *COL 1 - COL 15*, <ENTER>.

### To set a custom color in Master/Slave / Standalone Mode:

Using this function, you can select any color by adjusting the Red, Green, Blue and White / Amber values from 0-255. You may also adjust the color balance of the fixture.

**Please note that modifying the values in this step will affect ALL modes, therefore we recommend resetting all levels to their highest value (255) after using this mode.**

- 1.) Select *MANU* from the control panel, then hit <ENTER>.
- 2.) Choose *Red, GrEE, bLUe or WhiE*, then hit <ENTER> to confirm.
- 3.) Using the <UP>/<DOWN> keys, select the color you wish to display by varying Red/Green/Blue intensity between 0 and 255, then hit <ENTER> to confirm each color choice.
- 4.) Select Color preset mode as instructed above, then select *COL 15*. then <ENTER> to confirm.

### To Show the Fixture Running Hours:

- 1.) Select *Fhr5* from the control panel, then hit <ENTER> to confirm.