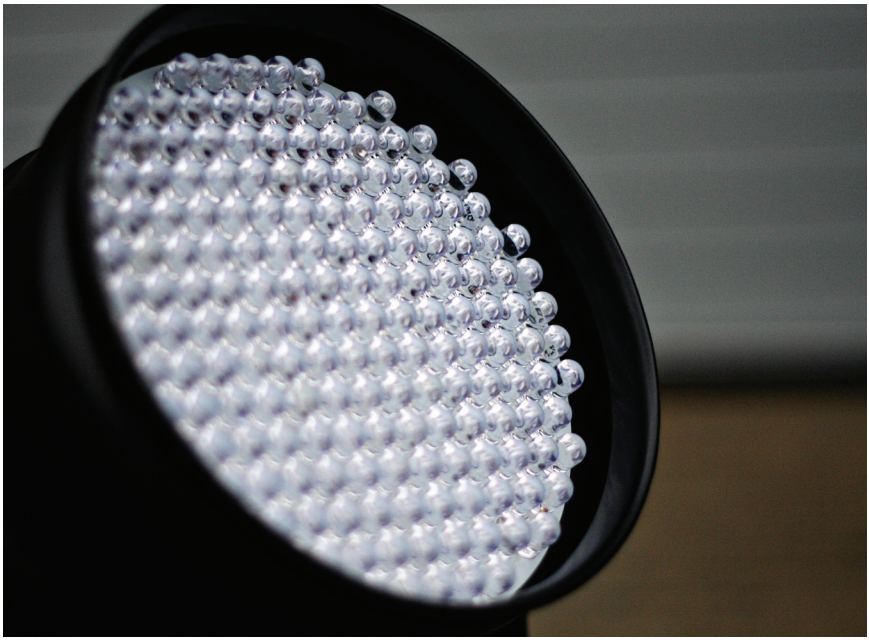
bargeheights



User Manual

LED PAR

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1. THE**BEGINNING**

Thanks!

Thank you for choosing the Bargeheights LED PAR! This versatile PAR-style LED wash luminaire will provide reliable performance day in and day out. To ensure long lasting performance, please follow the guidelines in this manual. The instructions here are important for your safety and the maintenance of this fixture. Enjoy!

Unpacking

All of our luminaires are thoroughly tested prior to being shipped. While your LED PAR functioned perfectly when it left us, it may have been bumped around during shipping. Please inspect the carton and if you notice any damage, take a good look at the fixture. If you see any damage, it is important to contact our support team right away. And, if you find any pieces necessary for operation are missing – let us know! We'll make it right as soon as possible.

Support

If something is not working properly, let us know! Grab a computer or your favorite handheld device and head to **www.bargeheightslighting.com/support** for user manuals, DMX channel lists and support information. You can also email us at support@bargeheights.com. We're happy to help.

WARNING!

To reduce the risk of fire or electrical shock, do not attempt to use this fixture with any covers missing or removed.

The Bargeheights LED PAR carries a one-year (365 day) manufacturers' limited warranty. Please contact Bargeheights for warranty repair or returns. All returns require an RA (Return Authorization) number. If your fixture is still under warranty, contact us and we'll walk you through the process.

Introduction

- PAR-style LED Wash Luminaire
- Full RGB color mixing via 183 LEDs
  (60 Red, 63 Green, 60 Blue)
- High output, low power consumption
- Variable electronic strobe
- Variable electronic dimmer
- Master/Slave modes
- Built-in standalone modes - no controller required!
- RGB color mixing ability in standalone mode
- Up to 7 DMX control channels
- Rugged aluminum chassis
- Passive cooling - no fan

DMX Quick Reference - 4 Channel Mode

Channel	Function
1	Red Intensity
2	Green Intensity
3	Blue Intensity
4	Overall Intensity

2. SAFETY**INFORMATION**

- DO NOT connect the fixture into a dimmer. Use constant line voltage only to avoid damage.

- Make sure you are connecting the fixture to line voltage that is not higher than the voltage stated on the rear of the fixture.

- The LED PAR is for indoor use only. Do not expose the fixture to rain, or other moisture. The LED PAR cannot be used as a buoy.

- Do not operate the fixture with flammable items nearby. NEVER lay anything on the fixture while it is on.

- Give it space! The LED PAR needs at least 6in (15cm) from other surfaces and objects. Make sure that none of the ventilation or fan slots are blocked.

- ALWAYS disconnect the fixture from its power source before servicing or cleaning.

- ALWAYS secure your LED PAR using a safety cable. NEVER hang or carry it by its cord. It has a yoke for a reason!

- DO NOT operate when the ambient temperatures are higher than 104°F (40°C). If it's too hot for you, it's too hot for your LED PAR!

- If your LED PAR stops working properly, stop using it immediately. NEVER try to repair it yourself. Attempting repairs in the field can result in damage or injury. Please contact us for repairs or replacement.

- Make sure the power cord is not frayed or damaged.

- Never disconnect the power cord by pulling on the cord. Use the plug!

- Avoid direct eye exposure to the light source while it is on. It's cool looking, and fun to watch, but staring into the light can damage your eyes!

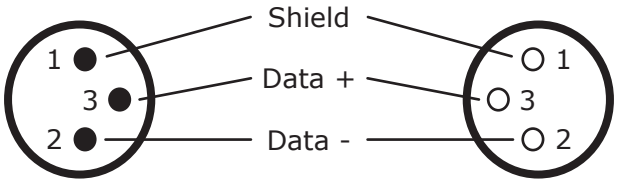
Caution!

There are no user serviceable parts inside this fixture. Do not open the housing or attempt any repairs yourself. Not only is it a bad idea, it will void your warranty – which is a bummer when you need a working light! If you do need service, please contact Bargeheights. Damages sustained as a result of modifications to the fixture, or disregarding information in this manual will not be covered by your warranty. If something is wrong, let us take a look at it. We'll help you out!

3. SETUP

DMX Cabling

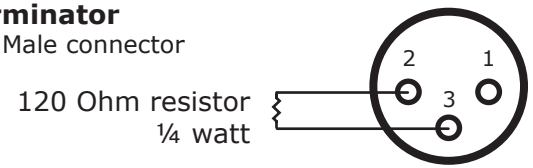
The LED PAR has standard 3-pin XLR connectors for DMX control and daisy-chaining. Up to 32 devices can be daisy-chained together on a single run. Standard microphone cables will probably work OK, but DMX is a serial data transmission with impedance specifications that are different than analog audio. Cables specifically designed to transmit DMX signals will always work best. As an example, Belden© 9841 meets the specifications for DMX-512 applications. The longer the cable distance, the more important proper cable selection is.



DMX Termination

Sometimes, errors will crop up in your DMX line – especially if it is a long run. When this is the case, or if you just want to make sure your DMX runs have the best chance at accurate transmission, you can use a terminator. A terminator is a 120 ohm ¼ watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This connector is inserted in the female XLR connector of the last fixture in your daisy chain to terminate the line. Using a cable terminator will decrease the possibility of erratic behavior. Terminators are available on the internet and from lighting retailers. If you're handy with a soldering iron, they are simple to build yourself!

DMX Terminator
3-pin XLR Male connector



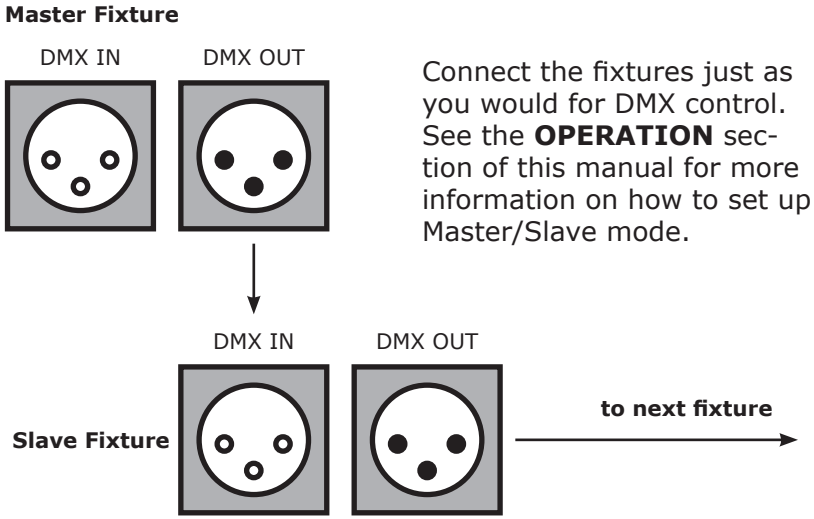
3-pin vs. 5-pin

Some manufacturers use 5-pin XLR connectors for DMX transmission. Don't worry! The two are still compatible. Adapters are available on the internet and from lighting retailers. If you want to build your own, here are the proper connections:

Cable Conductor	3-pin Female (output)	5-pin Male (input)
Shield (Ground)	Pin 1	Pin 1
DMX Data +	Pin 2	Pin 2
DMX Data -	Pin 3	Pin 3
not connected	-	not connected
not connected	-	not connected

Master/Slave Mode

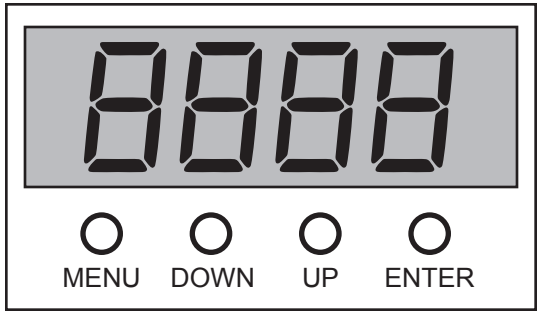
The LED PAR also has a Master/Slave mode. In this mode you can set one fixture in the line to act as the master controller – and up to 32 other fixtures can be connected and will mirror the operation of the first. In this configuration, you do not need a DMX controller.



Connect the fixtures just as you would for DMX control. See the **OPERATION** section of this manual for more information on how to set up Master/Slave mode.

4. OPERATION/**CONFIGURATION**

We here at Bargeheights don't really care for DIP switches. They are hard to see in the dark, and since most of us don't quickly think in binary, they are tricky to set properly. The LED PAR has an LED display with a simple menu system. There are four control buttons below the display that allow you to navigate the control menus.



<MENU> – Go up a level in the menu system; hold to confirm

<DOWN> – Scroll to the next lower number or menu selection

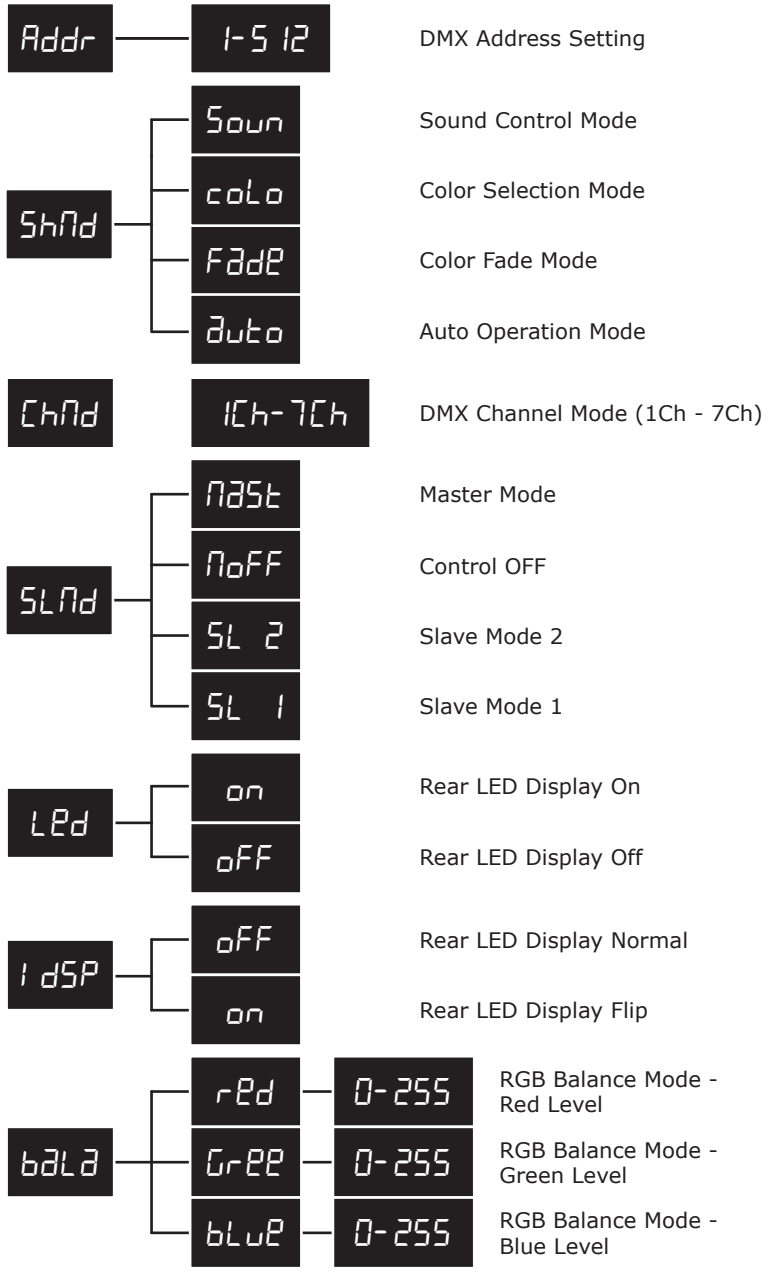
<UP> – Scroll to the next higher number or menu selection

<ENTER> – Select the current number / menu selection

To access the main menu press the <**MENU>** button. Use the **<UP>** or **<DOWN>** buttons to navigate through the menu options. Press the **<ENTER>** button to select the option displayed, and use the **<UP>** or **<DOWN>** buttons to change the settings. Once your changes are made press **<ENTER>** to accept the change. **Hold <MENU> for three seconds to confirm the settings change.**

If the LED PAR menu remains static for more than eight seconds it will automatically return to its last setting. To exit the menu without making any changes press the **<MENU>** button.

Menu Structure



DMX Control Mode

To change the DMX starting address:

• Press **<MENU>** until Addr is displayed.
• Press **<ENTER>** to display the channel number, and press **<UP>** or **<DOWN>** to select your starting address. (1-512)
• Press **<ENTER>** to assign your selection, then press and hold **<MENU>** for three (3) seconds to confirm the change.

NOTE: If a valid DMX signal is not present, the fixture will automatically go into the selected standalone mode. See **Standalone Control Modes** for more information.

To change the DMX mode (1, 2, 3, 4, 5, 6, or 7 channels):

• Press **<MENU>** until ChNd is displayed.
• Press **<ENTER>** to display the mode, and press **<UP>** or **<DOWN>** to select the DMX mode. (1CH - 7CH)
• Press **<ENTER>** to assign your selection, then press and hold **<MENU>** for three (3) seconds to confirm the change.

1 Channel DMX Mode

Channel	Channel Value	Function
	0	Off
	1-7	Red
	8-15	Green
	16-23	Blue
	24-31	Yellow
	32-39	Magenta
	40-47	Cyan
	48-55	White
	56-63	Lime Green
	64-71	Lavender
	72-79	Light Steel Blue
	80-87	Amber
	88-95	Light Cyan
	96-103	Light Pink
	104-111	Pink
	112-119	Turquoise
1	120-127	Cool White
	128-135	Lilac
	136-143	Chartreuse
	144-151	Light Lavender
	152-159	Daylight Blue
	160-167	Purple
	168-175	Light Lilac
	176-183	Lime Green
	184-191	Warm Lavender
	192-199	Light Lime Green
	200-207	Electric Blue
	208-215	Light Teal
	216-223	Lavender Tint
	224-231	Light Lavender
	232-239	Medium Lavender
	240-247	Cool White 2
	248-255	Neutral White

2 Channel DMX Mode

Channel	Channel Value	Function
1	0	Off
	1-7	Red
	8-15	Green
	16-23	Blue
	24-31	Yellow
	32-39	Magenta
	40-47	Cyan
	48-55	White
	56-63	Lime Green
	64-71	Lavender
	72-79	Light Steel Blue
	80-87	Amber
	88-95	Light Cyan
	96-103	Light Pink
	104-111	Pink
	112-119	Turquoise
	120-127	Cool White
	128-135	Lilac
	136-143	Chartreuse
	144-151	Light Lavender
	152-159	Daylight Blue
	160-167	Purple
	168-175	Light Lilac
	176-183	Lime Green
	184-191	Warm Lavender
	192-199	Light Lime Green
	200-207	Electric Blue
	208-215	Light Teal
	216-223	Lavender Tint
	224-231	Light Lavender
	232-239	Medium Lavender
	240-247	Cool White 2
	248-255	Neutral White
2	0-255	Intensity

3 Channel DMX Mode

Channel	Channel Value	Function
1	0-255	Red Intensity
2	0-255	Green Intensity
3	0-255	Blue Intensity

4 Channel DMX Mode

Channel	Channel Value	Function
1	0-255	Red Intensity
2	0-255	Green Intensity
3	0-255	Blue Intensity
4	0-255	Overall Intensity

5 Channel DMX Mode

Channel	Channel Value	Function
1	0-255	Red Intensity
2	0-255	Green Intensity
3	0-255	Blue Intensity
4	0-7 8-255	No Strobe Strobe Slow -> Fast
5	0-255	Overall Intensity

6 Channel DMX Mode

Channel	Channel Value	Function
1	0-255	Red Intensity
2	0-255	Green Intensity
3	0-255	Blue Intensity
4	0-255	Colors 1-32 (See 1 Channel Mode)
5	0-7 8-255	No Strobe Strobe Slow -> Fast
6	0-255	Overall Intensity

7 Channel DMX Mode

Channel	Channel Value	Function
1	0-255	Red Intensity
2	0-255	Green Intensity
3	0-255	Blue Intensity
4	0-255	Colors 1-32 (See 1 Channel Mode)
5	0-7 8-255	No Strobe Strobe / Fade Speed Slow -> Fast
6	0-127 128-159 160-191 192-223 224-255	No Auto Fade Color Fade Color Chase R, G, B Color Chase R, G, B, Y, M, C, White Sound Control Mode
7	0-255	Overall Intensity

Standalone Control Modes

The LED PAR has several standalone control modes that do not require a DMX control signal.

• Press **<MENU>** until SHNd is displayed.
• Press **<ENTER>** to select, and press **<UP>** or **<DOWN>** to select your desired standalone mode.

Soun is Sound Control Mode. The LED PAR will respond by changing color to music or sounds via its onboard microphone.

coLo is Color Selection Mode. The LED PAR will stay on one of the seven (7) preset colors. The colors are:

- coL 1 – Red
- coL2 – Green
- coL3 – Blue
- coL4 – Yellow
- coL5 – Magenta
- coL6 – Cyan
- coL7 – White

FAdE is Color Fade Mode. The LED PAR will fade through many different colors. There are 7 speeds, from fast to slow. FAd 1 is fast – FAd7 is slow.

Auto is Auto Operation Mode. The LED PAR will cycle through many different colors automatically.

• With all Standalone Modes, press **<ENTER>** to assign your selection, then press and hold **<MENU>** for three (3) seconds to confirm the change.

Master/Slave Mode

Up to 32 LED PARs may be connected via the 3-pin DMX connections and controlled simultaneously without a DMX controller by using Master/Slave Mode. In this mode you can set one fixture in the line to act as the master controller.

• Press **<MENU>** until SLMd is displayed.
• Press **<ENTER>** to select, and press **<UP>** or **<DOWN>** to select your desired mode.

MASt sets the LED PAR as the Master. Other LED PAR fixtures connected to this one and set as slave will be controlled by this fixture.

MoFF turns off control of the LED PAR.

SL 2 sets the LED PAR in Slave Mode 2. If this LED PAR is connected to another set in Master Mode, it will be controlled by the Master fixture.

SL 1 sets the LED PAR in Slave Mode 1. If this LED PAR is connected to another set in Master Mode, it will be controlled by the Master fixture.

• Press **<ENTER>** to assign your Master/Slave selection, then press and hold **<MENU>** for three (3) seconds to confirm the change.

RGB Balance Mode

RGB Balance Mode adjusts the maximum LED level output for every mode. **If you change this setting, you will affect the colors output for every preset mode.** Make sure this is what you want before changing these settings!

• Press **<MENU>** until bALd is displayed.
• Press **<ENTER>** to select. All Red, Green, and Blue LEDs will be on at full.
• Press **<UP>** or **<DOWN>** to select the color you wish to adjust. (rEd GrEE bLuE)
• Color levels adjustable from 0-255.
• Press **<ENTER>** to assign selection.
• To confirm your changes and exit RGB Balance Mode, hold **<MENU>** for three (3) seconds.

LED Display

The rear facing LED menu display can be set to hide when it is not in use.

• Press **<MENU>** until LEd is displayed.
• Press **<ENTER>** to select. The current choice will be shown (on or oFF)
• Press **<UP>** or **<DOWN>** to select the display status.
• Press **<ENTER>** to assign selection, then press and hold **<MENU>** for three (3) seconds to confirm the change.
• After 20-30 seconds of menu inactivity, the LED display will turn off, and remain off until you press **<MENU>** again.

The LED menu display can also be flipped. If the LED PAR is in a position where you need to read it upside down, use this menu option.

• Press **<MENU>** until I dSP is displayed.
• Press **<ENTER>** to select. The current choice will be shown (on or oFF)
• Press **<UP>** or **<DOWN>** to flip the display. on is flipped. oFF is standard.
• Press and hold **<MENU>** for three (3) seconds to confirm the change.

Technical Specifications:

Model:	LED PAR
LEDs:	183 x 10mm (60 Red, 63 Green, 60 Blue)
Voltage:	100-250v / 50-60Hz
Dimensions:	9in (h) x 9in (w) x 12in (l) 230mm (h) x 230mm (w) x 310mm (l)
Weight:	3.5lbs (1.6Kg)
Power Consumption:	25 watts
DMX Channels:	1, 2, 3, 4, 5, 6, or 7 channels
Beam Spread:	25 degrees
Setup & Addressing:	LED Menu display – no dip switches!

Photometric Data:

Throw Distance	1.0m 3.2′	3.0m 9.8′	5.0m 16.4′	7.0m 23.0′
Beam Diameter	.54m 1.8′	1.2m 3.9′	1.66m 5.4′	1.95m 6.4′
Illuminance (lux)	990	520	230	132

Photometric data taken with all channels at full. Due to variations in all LEDs, these values should be considered approximate. All LED sources experience a lowering of output and some color shift over time. LED output varies with ambient operating temperatures.

5. CARE/MAINTENANCE

Your LED PAR is designed for long life with minimal upkeep. Since there are no lamps to replace, maintenance is simple - just keep your LED PAR clean and dry. Especially if you are in a dusty or haze-filled environment, there are some simple steps you can take to ensure a long, happy life for your LED PAR.

Keeping the lens area clean will ensure maximum light output. Use glass cleaner on a soft cloth to wipe down the lens area and the outer enclosure of the LED PAR whenever it gets dirty or dusty. Always make sure the vent holes are kept clear.

Any other repair or maintenance should be performed by qualified individuals only. There are no user-serviceable parts in the LED PAR. If you find your LED PAR behaving strangely, please feel free to contact us and we'll help with troubleshooting.

Returns

While your LED PAR was tested and working perfectly before it left to join your family, sometimes things can happen. If there's a problem, and you need to return your LED PAR - don't worry! It's easy.

Send an email to support@bargeheights.com, and we'll issue you an RA (Return Authorization) number. Carefully pack your LED PAR for shipping - using the original box and packing material, if possible. Use a prepaid, trackable shipping method, such as UPS, FedEx or USPS Priority Mail.

Please include the following information with your fixture so we can best help you!

1. Your contact information (Name, Address, Phone Number, Email address)
2. The RA# issued to you
3. A brief description of the problem/symptoms

We will take a look at the fixture, and at our discretion, repair or replace the fixture. Please note that we cannot be responsible for damage that takes place during shipping - so make sure you pack the fixture well!

Shipping Damage

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

Contact Us

bargeheights inc

www.bargeheights.com

Support: www.bargeheightslighting.com/support

support@bargeheights.com

859-317-2878