

bargeheights



User Manual

LED 36

RGB Wash Luminaire

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1. THE BEGINNING

Thanks!

Thank you for choosing the Bargeheights LED 36! 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 36 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.bargeheights.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 36 carries a one-year (365 day) manufacturers' limited warranty. Please contact Bargeheights for warranty repair or returns. All returns require an SR (Service Request) 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 36 x 1w LEDs
(12 Red, 12 Green, 12 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
- Rugged aluminum chassis
- Locking yoke
- Quiet internal fan for cooling



DMX Quick Reference

Channel	Function
1	Overall Intensity
2	Red Intensity
3	Green Intensity
4	Blue Intensity
5	Strobe
6	Color / Strobe Effects

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 36 is for indoor use only. Do not expose the fixture to rain, or other moisture like your bathtub.
- Do not operate the fixture with flammable items nearby. NEVER lay anything on the fixture while it is on.
- Give it space! The LED 36 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 36 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 36!
- If your LED 36 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!



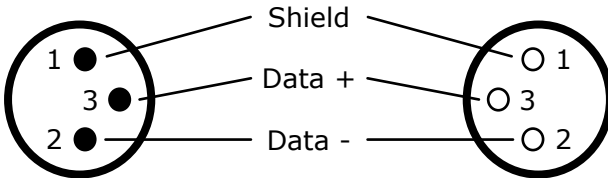
Caution!

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 36 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.



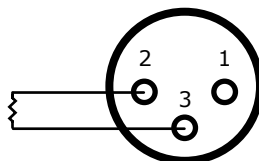
DMX Termination

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

120 Ohm resistor
¼ watt



3-pin vs. 5-pin

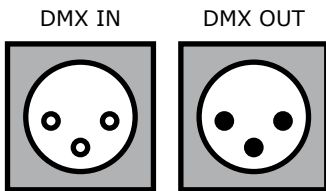
Some manufacturers use 5-pin XLR connectors for DMX transmission. Don't worry! The two are still compatible. Adapters are available on the internet and from lighting retailers. If you want to build your own, here are the proper connections:

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

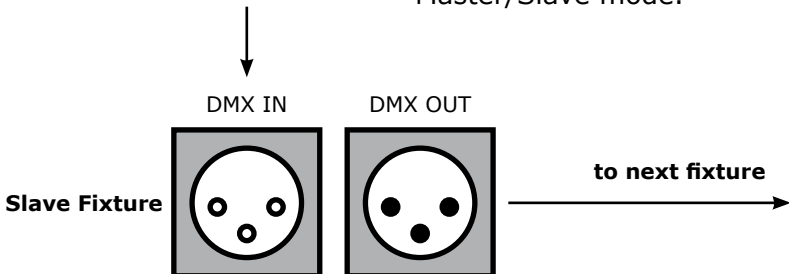
Master/Slave Mode

The LED 36 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.

Master Fixture

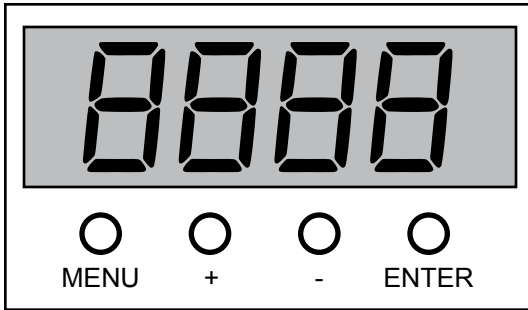


Connect the fixtures just as you would for DMX control. See the **OPERATION** section of this manual for more information on how to set up Master/Slave mode.



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 36 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

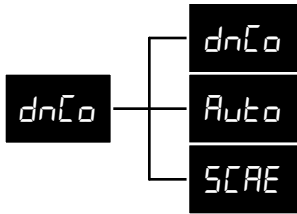
<+> – Scroll to the next higher number or menu selection

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

<ENTER> – Select the current number / menu selection

To access the main menu press the **<MENU>** button. Use the **<+>** or **<->** buttons to navigate through the menu options. Press the **<ENTER>** button to select the option displayed, and use the **<+>** or **<->** buttons to change the settings. Once your changes are made press **<ENTER>** to accept the change.

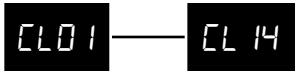
Menu Structure



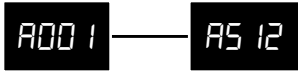
DMX Control Mode

Auto Control Mode

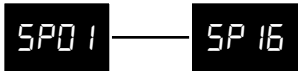
Slave Mode



Auto Mode Color Control



DMX Address Setting



Auto Mode Speed Control

DMX Control Mode

To change the DMX starting address:

- Press **<MENU>** until the DMX channel (*ADD 1-95 12*) is displayed.
- Press **<+>** or **<->** to select your starting address. (*1-5 12*)
- Press **<ENTER>** to assign your selection.

To put the fixture into DMX Control Mode:

- Press **<MENU>** until the control mode is displayed. (*dnCO* or *Auto* or *SCAE*)
- Press **<+>** or **<->** to select DMX Control Mode. (*dnCO*)
- Press **<ENTER>** to assign your selection.

DMX Channel Assignments

Channel	Channel Value	Function
1	0-255	Overall RGB Intensity
2	0-255	Red Intensity
3	0-255	Green Intensity
4	0-255	Blue Intensity
5	0 1-255	No Strobe Strobe slow -> fast
6	0-24 25-45 46-66 67-87 88-108 109-129 130-150 151-171 172-192 193-213 214-234 235-255	White Blue Green Red Cyan Magenta Yellow Color Strobe Color Change Color Slow Fade Audio Strobe Audio Color Change

Auto Control Mode

The LED 36 has an automatic control mode that does not require a DMX control signal.

- Press **<MENU>** until the control mode is displayed.
(*dmca* or *Auto* or *SCAE*)
- Press **<+>** or **<->** to select Auto Control Mode. (*Auto*)
- Press **<ENTER>** to assign your selection.

Auto Control Mode has two selectable controls - color and speed. The color mode has 14 individual choices:

- [L01* - Red
- [L02* - Orange
- [L03* - Yellow
- [L04* - Green
- [L05* - Cyan
- [L06* - Blue
- [L07* - Magenta
- [L08* - Purple
- [L09* - White
- [L10* - Audio Color Change
- [L11* - Audio Strobe
- [L12* - Slow Color Fade
- [L13* - Color Chase
- [L14* - Strobe

In Color Chase and Strobe modes, there are 16 speeds, from fast to slow. *SPD 1* is fast - *SP 16* is slow.

Master/Slave Mode

Up to 32 LED 36s 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 – and up to 32 other fixtures can be connected and will mirror the operation of the Master.

- Press **<MENU>** until the control mode is displayed.
(*dmca* or *Auto* or *SCAE*)
- Press **<+>** or **<->** to select Slave Mode. (*SCAE*)
- Press **<ENTER>** to assign your selection.

Connect LED 36 fixtures and set them in Slave Mode and they will operate mirroring the first fixture. Do not set the first fixture in Slave Mode - only the other fixtures.

Technical Specifications:

Model:	LED 36
LEDs:	36 x 1watt (12 Red, 12 Green, 12 Blue)
Voltage:	100-250v / 50-60Hz
Dimensions:	9in (h) x 9in (w) x 12in (l) 230mm (h) x 230mm (w) x 310mm (l)
Weight:	11lbs (5.0Kg)
Power Consumption:	60 watts
DMX Channels:	6 channels
Beam Spread:	25 degrees (beam) 35 degrees (field)
Setup & Addressing:	LED Menu display – no dip switches!

Photometric Data:

Throw Distance	3.0m 9.8'	5.0m 16.4'	7.0m 22.9'
Beam Diameter	1.34m 4.4'	2.22m 7.3'	3.14m 10.3'
Illuminance (lux)	3110	1470	646

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 36 is designed for long life with minimal upkeep. Since there are no lamps to replace, maintenance is simple - just keep your LED 36 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 36.

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 36 whenever it gets dirty or dusty. Always make sure the vent holes are kept clear. The fan won't work if there's no place for the air to go!

Any other repair or maintenance should be performed by qualified individuals only. There are no user-serviceable parts in the LED 36. If you find your LED 36 behaving strangely, please feel free to contact us and we'll help with troubleshooting.

Returns

While your LED 36 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 36 - don't worry! It's easy.

Head over to www.bargeheights.com/support and select the LED 36, or send an email to support@bargeheights.com, and we'll issue you an SR (Service Request) number. Carefully pack your LED 36 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 SR# 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.bargeheights.com/support

support@bargeheights.com

859.904.9444

