

bargeheights



User Manual

BAR 252

RGB Linear Wash Luminaire

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1. THE BEGINNING

Thanks!

Thank you for choosing the Bargeheights BAR 252! This versatile linear 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 BAR 252 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.bargeheightsighting.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 BAR 252 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

- Linear LED Wash Luminaire
- Full RGB color mixing via 252 LEDs (108 Red, 72 Green, 72 Blue)
- High output, low power consumption
- Variable electronic strobe/dimmer
- 3 segments individually controllable within single unit
- Master/Slave modes
- Built-in standalone modes - no controller required!
- RGB color mixing ability in standalone mode
- Rugged aluminum chassis

DMX Quick Reference

Channel	Function
1	Color + Strobe Control
2	Speed OR Intensity / Strobe Control
3	Red Intensity
4	Green Intensity
5	Blue Intensity
6	Red Segment 1 Intensity
7	Green Segment 1 Intensity
8	Blue Segment 1 Intensity
9	Red Segment 2 Intensity
10	Green Segment 2 Intensity
11	Blue Segment 2 Intensity
12	Red Segment 3 Intensity
13	Green Segment 3 Intensity
14	Blue Segment 3 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 BAR 252 is for indoor use only. Do not expose the fixture to rain, or other moisture. The BAR 252 cannot be used as a water ski.
- Do not operate the fixture with flammable items nearby. NEVER lay anything on the fixture while it is on.
- ALWAYS disconnect the fixture from its power source before servicing or cleaning.
- 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 BAR 252!
- If your BAR 252 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!

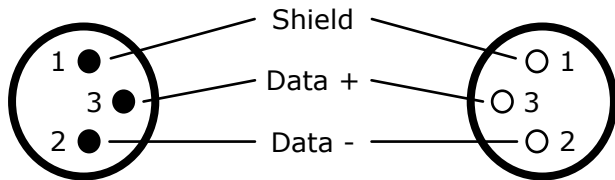


There are no user serviceable parts inside this fixture. Do not open the housing or attempt any repairs yourself. Not only is it a bad idea, it will void your warranty – which is a bummer when you need a working light! If you do need service, please contact Bargeheights. Damages sustained as a result 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 BAR 252 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.



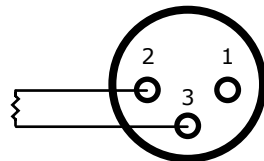
DMX Termination

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

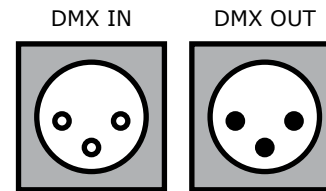
Some manufacturers use 5-pin XLR connectors for DMX transmission. Don't worry! The two are still compatible. Adapters are available on the internet and from lighting retailers. If you want to build your own, here are the proper connections:

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

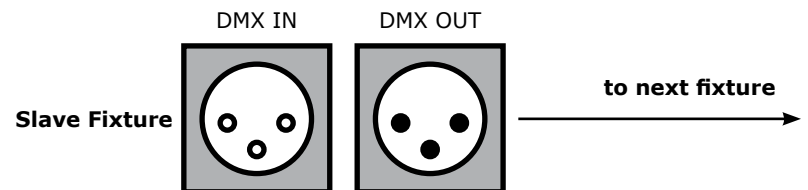
Master/Slave Mode

The BAR 252 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

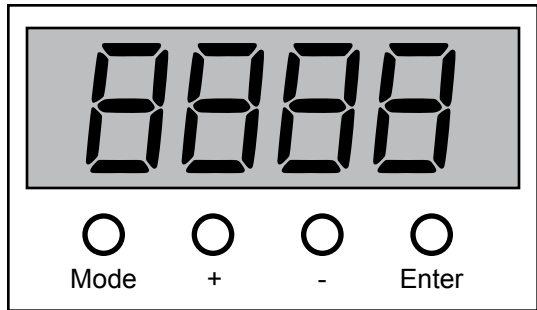


Connect the fixtures just as you would for DMX control. See the **OPERATION** section of this manual for more information on how to set up Master/Slave mode.



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 BAR 252 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.



<MODE> - Go up a level in the menu system

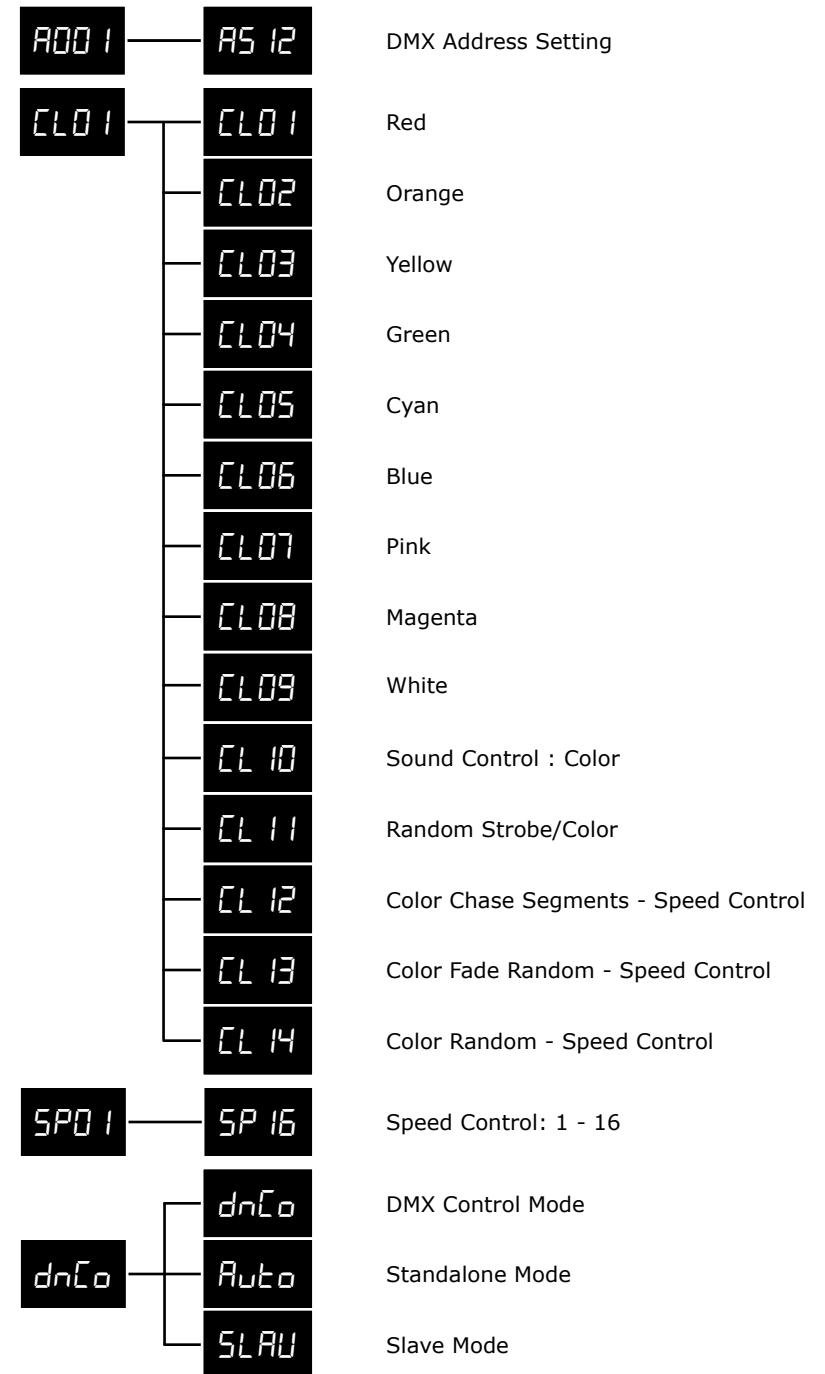
<+> - Scroll to the next higher number or menu selection

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

<ENTER> - Select the current number / menu selection

To access the main menu press the **<MODE>** 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

To change the DMX starting address:

- Press **<MODE>** until *ADD 1* is displayed.
- Press **<ENTER>** to display the channel number, and press **<+>** or **<->** to select your starting address. (1-5 12)
- Press **<ENTER>** to assign your selection.

Ensure your BAR 252 is in DMX Control Mode:

- Press **<MODE>** until the Control Mode is displayed.
(*dnCo Auto SLAU*)
- Press **<+>** or **<->** and select *dnCo*.
- Press **<ENTER>** to confirm your change.

DMX Channel Functions

Channel	Channel Value	Function
1	0-15	Strobe Off
	16-25	Color Cycling Strobe
	26-35	Color Cycling Triple Strobe
	36-45	Color Cycling Pulse Fade
	46-55	Color Cycle
	56-65	Random Color Fade
	66-75	White Segment Chase
	76-85	Red Segment Chase
	86-95	Green Segment Chase
	96-105	Blue Segment Chase
	106-115	Yellow Segment Chase
	116-125	Magenta Segment Chase
	126-135	Cyan Segment Chase
	136-145	Cyan + R Segment Chase
	146-155	Mag + G Segment Chase
	156-165	Yel + B Segment Chase
	166-175	Red + B/G Segment Chase
	176-185	White Neg R/B Seg Chase
	186-195	White Neg R/G Seg Chase
	196-205	R - G - B Segment Chase
206-215	C - M - Y Segment Chase	
216-225	Color Cycling Seg Chase	
226-235	Add Color Cycl Seg Chase	
236-245	Random Strobe / Color	
246-255	Full Red	

2	0-64 65-128 129-192 193-245 246-255	Intensity (0-100%) Strobe Slow -> Fast Triple Strobe Slow -> Fast Pulse Fade Slow -> Fast Full Intensity
3	0-255	Red Intensity
4	0-255	Green Intensity
5	0-255	Blue Intensity
6	0-255	Red Segment 1 Intensity
7	0-255	Green Segment 1 Intensity
8	0-255	Blue Segment 1 Intensity
9	0-255	Red Segment 2 Intensity
10	0-255	Green Segment 2 Intensity
11	0-255	Blue Segment 2 Intensity
12	0-255	Red Segment 3 Intensity
13	0-255	Green Segment 3 Intensity
14	0-255	Blue Segment 3 Intensity

Control Functions

When utilizing DMX Channel 1 to control preset effects, DMX Channel 2 controls the speed of the effects, slow -> fast. (0-255)

If Channel 1 is at 0, then Channel 2 controls Intensity/Strobe with the selected color from Channels 3-14.

To control RGB overall color, or to control individual segment RGB colors, Channel 2 must be either between 0-64 for Intensity control, or at 255 (Full) for Channels 3-14 to function.

Standalone Control Modes

The BAR 252 has several standalone control modes that do not require a DMX control signal.

Ensure your BAR 252 is in Standalone Control Mode:

- Press **<MODE>** until the Control Mode is displayed.
(*dnCo Auto SLAU*)
- Press **<+>** or **<->** and select *Auto*.
- Press **<ENTER>** to confirm your change.

Select the desired Standalone function:

- Press **<MODE>** until the Standalone function is displayed.

[L01 – Red
[L02 – Orange
[L03 – Yellow
[L04 – Green
[L05 – Cyan
[L06 – Blue
[L07 – Pink
[L08 – Magenta
[L09 – White
[L10 – Sound Control : Color
[L11 – Random Strobe/Color
[L12 – Color Chase Segments - Speed Control
[L13 – Color Fade Random - Speed Control
[L14 – Color Random - Speed Control

- Press **<ENTER>** to confirm your change.

The BAR 252 also has speed control for several of the Standalone Control Modes.

- Press **<MODE>** to display the selected speed. There are 16 speeds, from fast to slow. *SP01* is slow – *SP16* is fast.

Master/Slave Mode

Up to 32 BAR 252s 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.

To ensure your BAR 252 is in Slave Mode:

- Press **<MODE>** until the Control Mode is displayed.
(*dnCo Auto SLAU*)
- Press **<+>** or **<->** and select *SLAU*.
- Press **<ENTER>** to confirm your change.

To set your BAR 252 in Master Mode, set it up just as you would for a Standalone Control Mode.

- Press **<MODE>** until the Control Mode is displayed.
(*dnCo Auto SLAU*)
- Press **<+>** or **<->** and select *Auto*.
- Press **<ENTER>** to confirm your change.

Then you can select the function on the Master fixture and watch the Slave fixtures follow.

Technical Specifications:

Model:	BAR 252
LEDs:	252 x 10mm (108 Red, 72 Green, 72 Blue)
Voltage:	100-240v / 50-60Hz
Dimensions:	3.25in (h) x 2.5in (w) x 42in (l) 82.5mm (h) x 63.5mm (w) x 1066mm (l)
Weight:	5lbs (2.25Kg)
Power Consumption:	50 watts
DMX Channels:	14 channels
Beam Spread:	35 degree approximate spread
Setup & Addressing:	LED Menu display – no dip switches!

Photometric Data:

	1.0m 3.2'	2.0m 6.6'	3.0m 9.8'	5.0m 16.4'
Throw Distance				
Beam Width	.75m 1.8'	1.2m 3.9'	2.2m 7.2'	2.75m 9.0'
Illuminance (lux)	1150	450	195	55

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 BAR 252 is designed for long life with minimal upkeep. Since there are no lamps to replace, maintenance is simple - just keep your BAR 252 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 BAR 252.

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 BAR 252 whenever it gets dirty or dusty.

Any other repair or maintenance should be performed by qualified individuals only. There are no user-serviceable parts in the BAR 252. If you find your BAR 252 behaving strangely, please feel free to contact us and we'll help with troubleshooting.

Returns

While your BAR 252 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 BAR 252 - 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 BAR 252 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

barge**heights inc**

www.bargeheights.com

Support: www.bargeheightslighting.com/support

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