

Starburst PixBar

18x10w RBGW LED Wash Striplight

User Manual



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1. Introduction and Setup

Congratulations on your purchase of our Starburst PixBar! The Starburst PixBar features RGBW LED's in a 18x10w configuration with full pixel control of each LED at a great price!

Unpacking

After receiving the Starburst Pixbar, please check whether any visible damage was caused during transport. If the power cord, housing or the light are damaged, do not operate the device. Contact your dealer or GAMMA LED Vision immediately.

Thank you for choosing our Starburst PixBar. It uses high power Red, Green, Blue, White, Amber, and UV LED's for, low power consumption, high brightness, and excellent colors. The Starburst PixBar features DMX512 control, standalone, and sound-active modes.

For your own safety, please read this manual before installing or using the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual for future needs.

In the Box:

Starburst PixBar 18x10w LED - 1 pc

PowerCon Power Cable - 1 pc

DMX Cable: 3 Pin - 1 pc

Mounting and Operation

Use clamps rated for the full weight of the Starburst PixBar to hang the fixture from the mount(s) on the fixture's feet.

As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using one of the safety cable foot attachment points as a safety point.

Safety Precautions

Caution: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.

From a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5ft) away from any flammable materials (decoration etc.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

- Don't try to modify the fixture without any instruction by the manufacturer or the appointed repairing agencies.

- Warranty is voided if there are any malfunctions from not following the user manual while operating or any hazardous operation, like shock short circuit, electronic shock, lamp broken, etc.

Allow the Starburst PixBar LED to cool for at least 15 minutes before handling after use.

Customer Support

WARRANTY POLICY

GAMMA LED Vision warrants its products for the periods set below from the date of purchase to be free of manufacturer and workmanship defects. Warranty does not cover normal wear and tear caused by force, negligence or misuse of products. GAMMA LED Vision is not responsible for any damages or injury caused by misuse or improper handling of the products and in accordance with instructions and specifications of manual.

Warranty terms are as follows:

LED Fixtures:

Indoor: 2 Years

Outdoor (IP 54 or higher): 1 Year

Lamp Fixtures: 1 year / excludes the lamp

LED Video Products:

Indoor: 2 Years

Outdoor (IP 54 or higher): 1 Year

Controllers: 2 years

Batteries: 6 months

All Trussing Related Products and Accessories: 1 Year

Please visit WWW.GAMMALEDVISION.COM for complete Limited Warranty terms and contact information.

2. Setup and Operation

Menu Operation

Use the Menu Key to enter the menu. The up and down keys can be used to change between menu options, press “Enter” to go deeper into the menu.

The chart below shows the main options and explains the settings. ***Always press “Enter” to confirm any settings changed.***

Main Menu Option	Value	Function
R000	R000-R255	Manual Control – Red LED’s
G000	G000-G255	Manual Control – Green LED’s
B000	B000-B255	Manual Control – Blue LED’s
∇000 (upside-down A)	A000-A255	Manual Control – White LED’s
T000	t---	Temperature Readout in Celsius
A001	001-512	Set the DMX Address
CH00	CH04, CH08, CH26, CH72	Set the DMX Channel Mode
N000	N001-N126	Choose a stand-alone program from 126 different options :)
E000	E001-E255	Choose a stand-alone program from a second set of 255 options :)

DMX Setup

DMX Basics

DMX512 stands for digital multiplex 512. This means that 512 channels are controlled digitally through 1 data cable.

A channel is a set of 255 steps that are assigned to control attributes in each light. This may be a color like red, green or blue, and intensity, strobe, pan/tilt or other attributes.

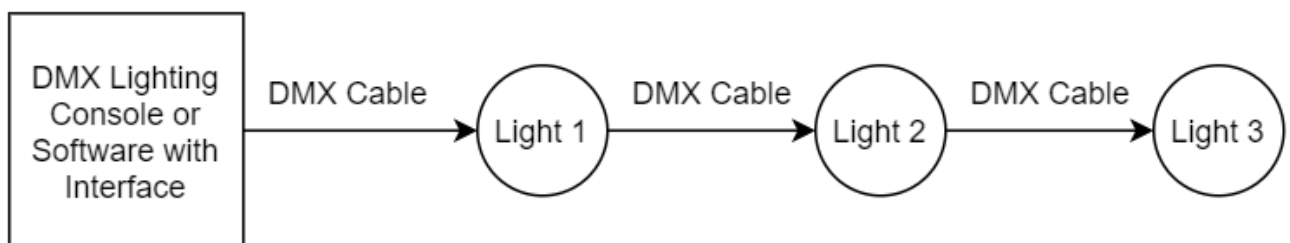
Multiple sets of 512 “universes” may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

DMX Wiring

DMX works by connecting 1 or multiple lights to the output of a DMX lighting console or software with a DMX interface.

DMX lights connect in what is called a “daisy-chain”. Your first DMX cable will plug its male DMX connector into the female DMX connector on your lighting console. The remaining female connector will then connect to the DMX input on your first light.

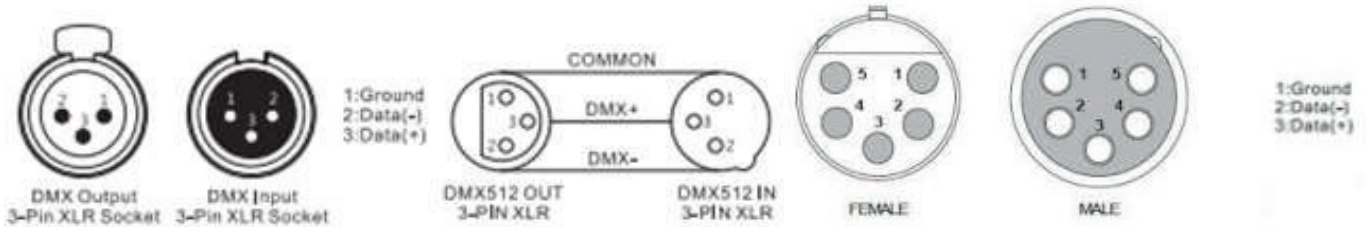
You may then connect your next fixture to the output of your first light, and continue the chain.



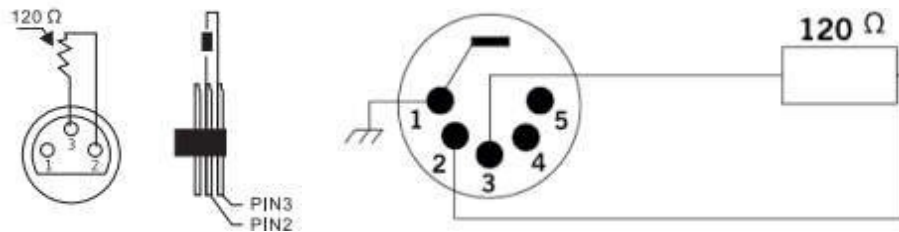
32 Fixture Rule – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

DMX Cables can be 3-pin or 5-pin. These use the same type of data, and in the 5-pin only pins 1, 2, and 3 are used. The cable should be a 2 conductor, shielded cable of at least 110 ohms resistance. Microphone cable is not DMX cable.

Please refer to the diagram below:



For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise and reflections. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below:



DMX Modes and Configuration

The Starburst PixBar has multiple DMX modes, sometimes called “personalities”, “profiles”, or as we will use here “modes”.

In general, modes with more DMX channels offer a greater level of control or options but take up more of your output channels on your lighting console or software.

Modes with less DMX channels often offer less control, but may be plenty for your needs. *Depending on your needs and control solution, you may not need channels for automated programs, strobes, or macros – your console may have great*

effects! In this case, you can use a lesser channel mode and fit more lights per DMX universe.

View the DMX mode charts below to find the mode that best suits your needs.

DMX Channel Mode Sheet:

On the left side of the sheet you will see the different modes and which channel corresponds to each function listed on the right in the given mode.

The 4, 8, and 72 Channel modes offer full RGBW control over different segments of the Starburst PixBar. The 72 channel mode is simply 18 pixels with RGBW (4 channel) control – perfect for pixel mapping!

The 26 channel mode is white-only and features control of each segment, but only at full white. The 26 channel mode is probably not the best fit for most users!

4CH	8CH	26CH	72CH	Function	Channel Value	Description
	1	1			0-255	Master Dimmer
	2	2			0-255	Strobe, Slow to fast
	3	3			0-255	Macros
	4	4			0-255	Macro Speed
1	5	--		Red	0-255	Red Intensity Control (Whole Fixture)
2	6	--		Green	0-255	Green Intensity Control (Whole Fixture)
3	7	--		Blue	0-255	Blue Intensity Control (Whole Fixture)
4	8	--		White	0-255	White Intensity Control (Whole Fixture)
		9-26		Full Color White	0-255	White Intensity Control for each cell, channel 9 is the first cell and channel 26 is the 18 th cell.
			1, 5, 9....69	Red Cells	0-255	Red Control for each pixel of the light, 1-18

4CH	8CH	26CH	72CH	Function	Channel Value	Description
			2, 6, 10....70	Green Cells	0-255	Green Control for each pixel of the light, 1-18
			3, 7, 11, 71	Blue Cells	0-255	Blue Control for each pixel of the light, 1-18
			4, 8, 12, 72	White Cells	0-255	White Control for each pixel of the light, 1-18

3. Maintenance

Troubleshooting Problems

The following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work:

- Check that the unit is plugged in to a working power connector.
- Press the menu button to confirm that the unit is powered on. If the screen does not light up, the unit has no power.

B. Not Responding to the DMX Controller

- Check DMX cables to verify that they are plugged in and functional.
- Check the DMX address and mode – does it match the address and mode patched in the lighting console or software?
- Plug the light directly into the DMX controller with a cable that you know is good. Unplug all other lights – does it work?
- Try to use another DMX controller.

4. Technical Specifications

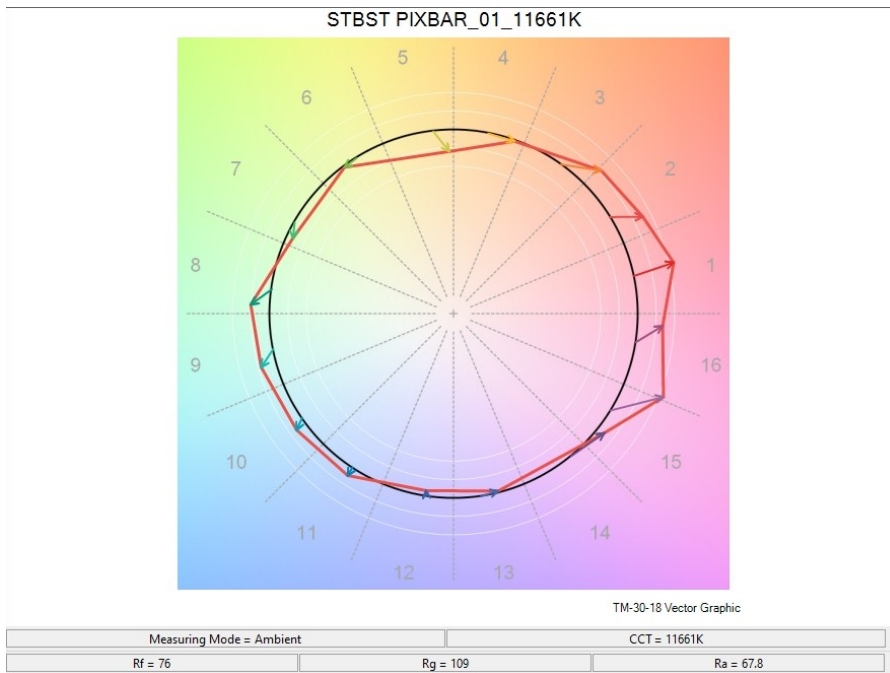
- ◆ Rated voltage: 100V-240VAC, 50/60Hz
- ◆ Power Consumption: 172w
- ◆ LEDs: 18 * 10 W RGBW (4 in 1)
- ◆ Lamp rated life: >50000 Hours
- ◆ Beam angle: 24°, Field Angle: 54°
- ◆ Strobe: Independent electronic strobe
- ◆ Flicker-Free on Camera
- ◆ Control Mode: DMX512 control, Auto Run
- ◆ IP Rating: IP 44
- ◆ Product size: 38.5" x 5.5" (on feet) x 3.5"
- ◆ Weight: 9 lbs

5. Photometrics:

Center-point measurement at the center of the beam.

Distance	Full Brightness in FC (RGBW)
5'	735
10'	277
15'	135
20'	80
25'	58
30'	33

TM-30:



CRI:

