

# Starburst 18x10w

*18x10w RGBAL LED Par*



*User Manual*

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# 1. Introduction and Setup

## Unpacking

After receiving the device, 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 Par. This light is designed by high strength die-casting aluminum which is able to endure high temperatures, and is designed in a stylish form.

It uses high power Red, Green, Blue, Lime, and Amber LED's for, low power consumption, high brightness, and excellent colors. The Starburst par 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 Pro 18x10w LED -	1 pc
PowerCon Power Cable -	1 pc
DMX Cable 3 Pin -	1 pc

## Mounting and Operation

Use a clamp rated for the full weight of the Starburst Par to hang the fixture from the mount(s) on the fixture's yoke.

As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly or on the yoke.

## 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 Par 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

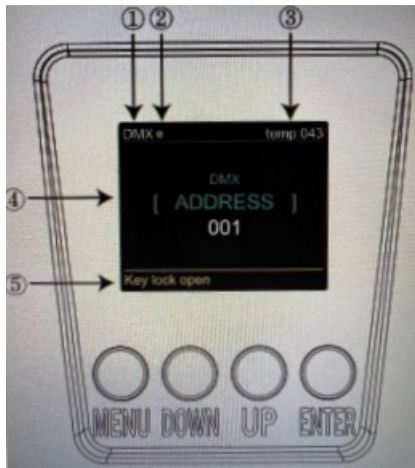
Batteries: 6 months

All Trussing Related Products and Accessories: 1 Year

Please visit [WWW.GAMMALEDVISION.COM](http://WWW.GAMMALEDVISION.COM) for complete Limited Warranty terms and contact information.

## 2. Setup and Operation

### Using the LCD Menu and Buttons



### Menu Operation

Use the Menu Key to enter 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
DMX Address	0-512	Set the DMX Address
Channels Mode	5CH, 9CH, 13CH, 14CH, HSV	Set the DMX Channel Mode
DMX State	DMX Hold, Blackout	Set the behavior when DMX is lost – to hold DMX or blackout the fixture.
Dimmer Curve	CURVE1 – CURVE4	Choose between 4 dimmer curves.
Manual Mode	Red	Adjust the Red for manual operation.
	Green	Adjust the Green for manual operation.
	Blue	Adjust the Blue for manual operation.
	Lime	Adjust the Lime for manual operation.
	Amber	Adjust the Amber for manual operation.

Main Menu Option	Value		Function
	Color		Choose from 70 static colors for manual operation. This will override any settings on the individual colors.
	Strobe		Adjust the strobe speed for manual operation.
Auto	Auto Mode		Choose the auto pattern you wish to run.
	Speed		Select the speed of the auto mode.
Slave Mode	Slave		Set Master/Slave mode for stand-alone operation. Any fixture in auto mode is the master, any mode set to Slave is Slave.
Custom Mode	01-11		Custom Mode as defined in 'Edit Mode' below.
Edit Mode	PR-1 thru PR-11		This is the editing section for the custom mode. Each custom mode can be defined with Steps 1-32, which can be manually set with color, time, fade, and other information. Using this, you can create quite powerful custom auto-sequences which can run without DMX. Exit out of Edit Mode and in to Custom Mode to play back your sequence.
Upload	Passcode		*Menu is for uploading firmware. Do NOT Use unless directed and instructed by GAMMA LED Vision.
Set Up	Dimmer ALL	0-255	Sets the maximum channel values in order to calibrate the white. <b>Use with Caution, setting this on some fixtures but not others will cause them to not match!</b>
	Rate	600hz, 1200hz, 2400hz, 4800 hz, 9600 hz, 15000hz	Set the PWM frequency to avoid flicker or rolling on camera.

Main Menu Option	Value		Function
	Factory Reset		Press Enter to set the fixture back to Factory settings.
	ID Number	Off, 0-66	Set an ID number for master/slave mode.
	CAL White	---	Choose between a variety of calibrated white's for the "white" manual setting in the menu.
	Key Lock	Off, 5s	Set the Key lock time. If you DO set the Key lock ON, the key code is Up/Down/Up/Down/Enter.
	LCD Black	ON, 30s	Set "ON" to keep the LCD on all the time. Set to "30s" for the LCD to turn off after 30 seconds.
	Max Temp	---	DO NOT Use unless directed by GAMMA LED Vision
Info	---	---	View a variety of information about the fixture and it's run time.
Reset			Resets the fixture – not a factory reset.

## 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.

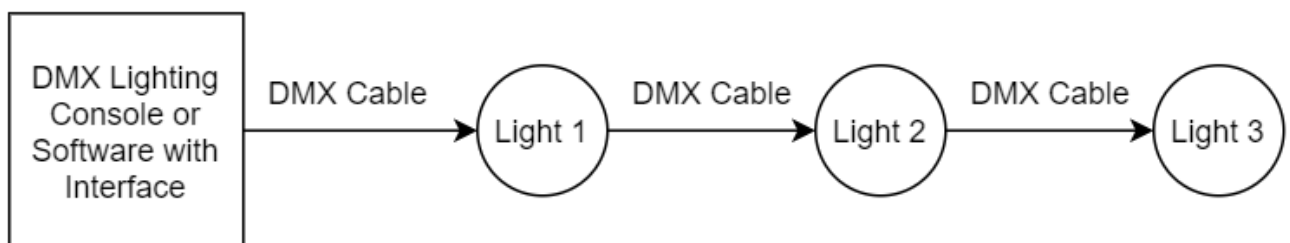
Multiple sets of 512 “universes” may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

### 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.

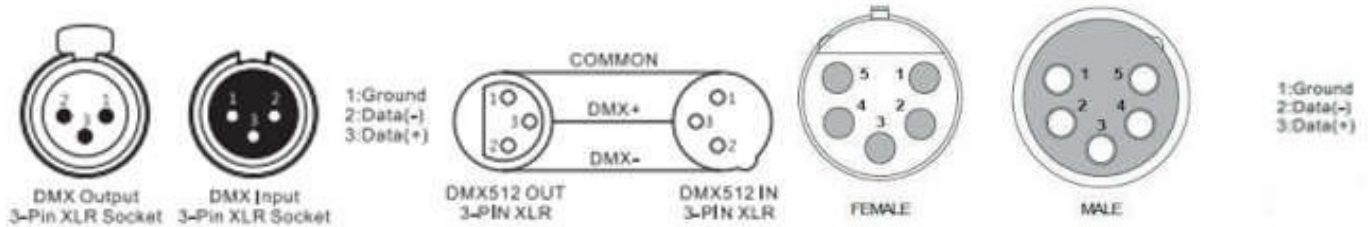
You may then connect your next fixture to the output of your first light, and continue the chain.



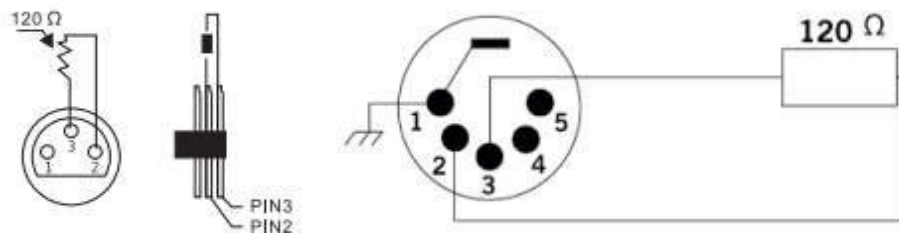
**32 Fixture Rule** – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

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 Par 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.

5CH	9CH	13CH	14CH	HSV	Function	Channel Value	Description
				1	Hue	0-255	Set the Hue
				2	Saturation	0-255	Set the Saturation
				3	Brightness	0-255	Set the Brightness
	1	1	1		Master	0-255	Master Intensity Control
	2	2	2		Strobe	0-9	No Function
						10-255	Strobe, Slow to Fast
1	3	3	3		Red	0-255	Red Intensity
2	4	4	4		Green	0-255	Green Intensity
3	5	5	5		Blue	0-255	Blue Intensity
4	6	6	6		Lime	0-255	White Intensity
5	7	7	7		Amber	0-255	Amber Intensity
		8	8		Color Macros	0-10	No Function
				11-190		Virtual Color Wheel	
				191-255		Static Color Macros	
		9	9		CTC	0-10	No Function
				11-190		Color Temperature Control, 2700k-10,000k	
				191-255		Static Color Macros	
		10	10		Auto Macros	0-7	No Function

5CH	9CH	13CH	14CH	HSV	Function	Channel Value	Description
						8-17	Auto 1
						18-27	Auto 2
						28-37	Auto 3
						38-47	Auto 4
						48-57	Auto 5
						58-67	Auto 6
						68-77	Auto 7
						78-87	Auto 8
						88-97	Auto 9
						98-107	Auto 10
						108-117	Custom 1
						118-127	Custom 2
						128-137	Custom 3
						138-147	Custom 4
						148-157	Custom 5
						158-167	Custom 6
						168-177	Custom 7
						178-187	Custom 8
						188-197	Custom 9
						198-207	Custom 10
208-255	Custom 11						
		11	11		Auto Macros Speed	0-255	Auto Macros Speed, Fast to Slow
	8	12	12		Dimmer Speed	050-089	Dimmer Speed 1 - Fastest
						090-129	Dimmer Speed 2

5CH	9CH	13CH	14CH	HSV	Function	Channel Value	Description
						130-139	Dimmer Speed 3
						170-209	Dimmer Speed 4
						210-255	Dimmer Speed 5 - Slowest
	9	13	13		Dimmer Curve	001-063	Dimmer Curve 1
						064-127	Dimmer Curve 2
						128-191	Dimmer Curve 3
						192-255	Dimmer Curve 4
			14		ID Address		

## **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.

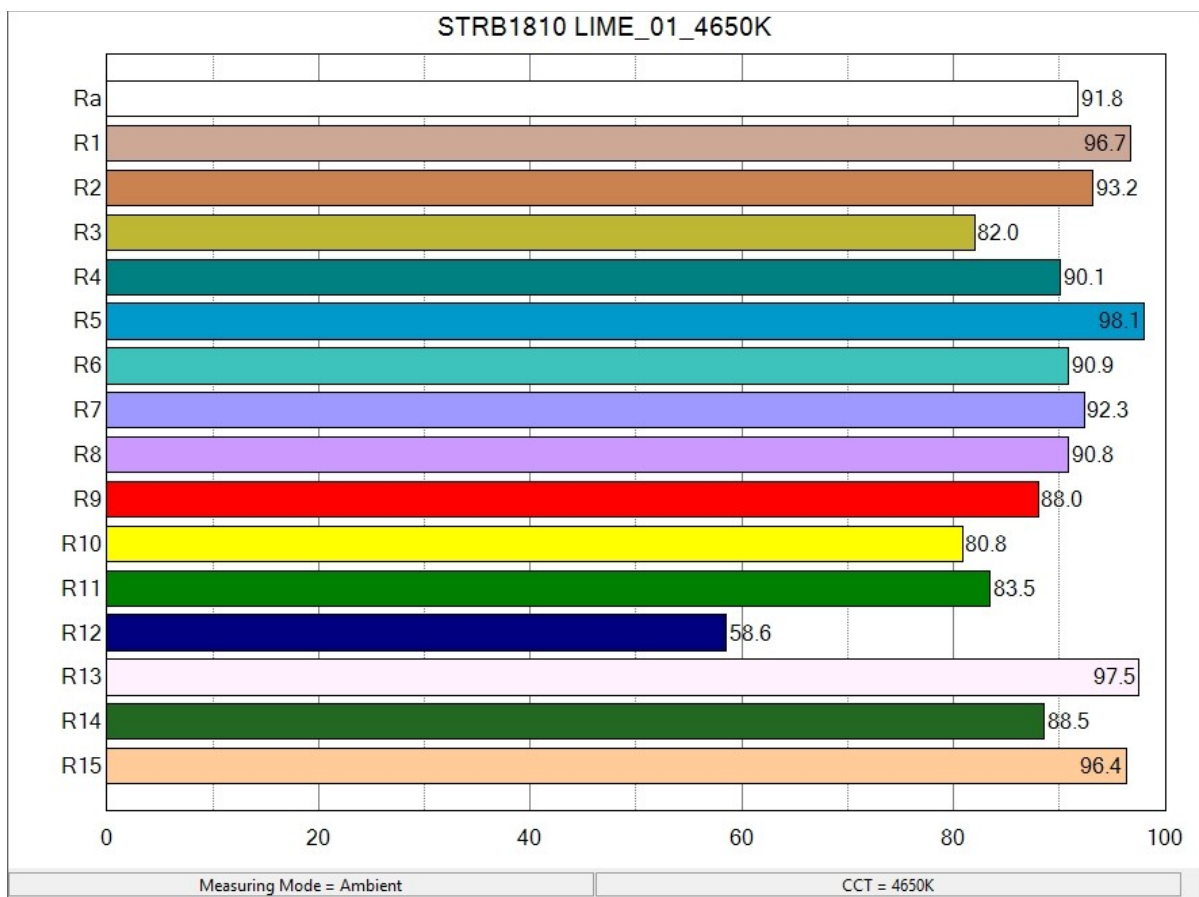
## 4. Technical Specifications

- ◆ Rated voltage: 100V-240VAC, 50/60Hz
- ◆ Power Consumption:220W
- ◆ LEDs: 18 \* 10 W RGBLA
- ◆ Lamp rated life: >50000 Hours
- ◆ Beam angle: 25 degree
- ◆ Strobe: Independent electronic strobe, 0-20 hz, the speed can be adjusted
- ◆ Control Mode: DMX512 control, Auto Run, Master/Slave, Sound-Active
- ◆ IP Rating: IP 44
- ◆ Product size: 210x280x250 MM
- ◆ Net Weight: 5 kgs / 11.02lbs
- ◆ Certification: CE, RoHS
- ◆ RDM UID: 010e:00450006

## 5. Photometrics:

Distance	Brightness in FC
5'	579
10'	144
15'	64
20'	36
25'	23
30'	16

## CRI 91.8



**TM-30:**

