Xenon Par

IP65 LED Par with Motorized Zoom

WWW.GAMMALEDVISION.COM

User Manual

Table of Contents

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 Xenon 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, and White LED's and has a motorized zoom control from 8°-50°.

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:

Xenon Par LED -	1 pc
Power Cable -	1 pc
Wireless IR Remote -	1 pc
User Manual -	1 pc

Mounting and Operation

Use a clamp rated for the full weight of the Xenon 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 items 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.

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

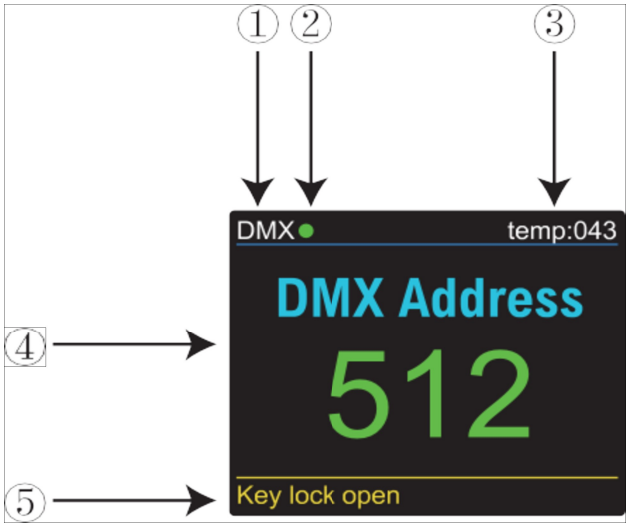
Batteries: 6 months

All Trussing Related Products and Accessories: 1 Year

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

2. Setup and Operation

Using the LCD Menu and Buttons



1: "DMX" or "SLAVE" is displayed depending on the mode.

2: Green dot = DMX present, Red dot = No DMX

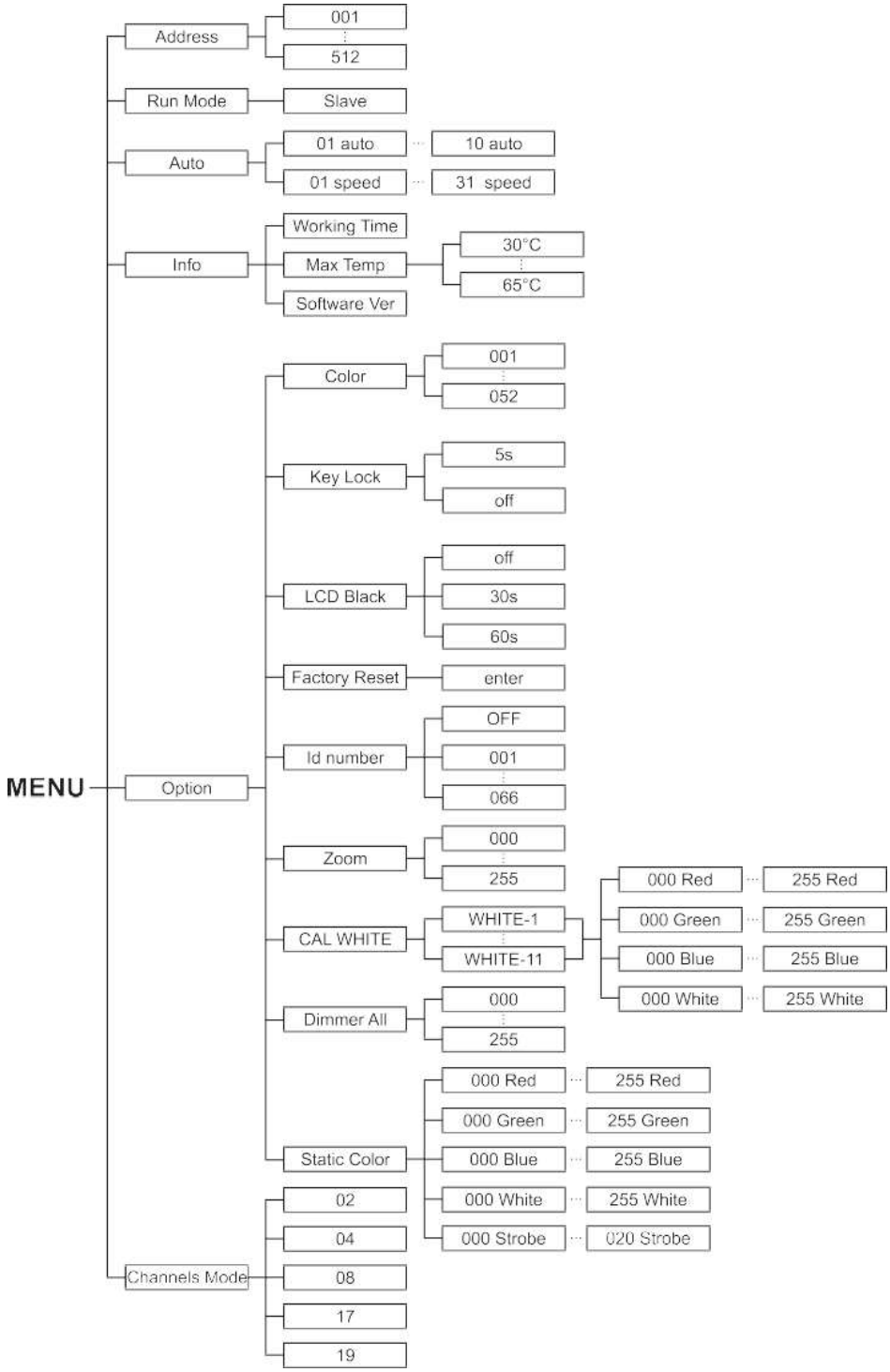
3: Temperature of the light. Changes to yellow when overheating.

4: Main Menu area, as entered via the keys.

5: Key lock – you may lock out the settings, and this is the indicator as to if they buttons are locked or not.

Menu Operation

Use the ENTER Key to enter the menu. The UP/DOWN keys will then change the selection and MENU will take you back. The chart below shows the main 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.

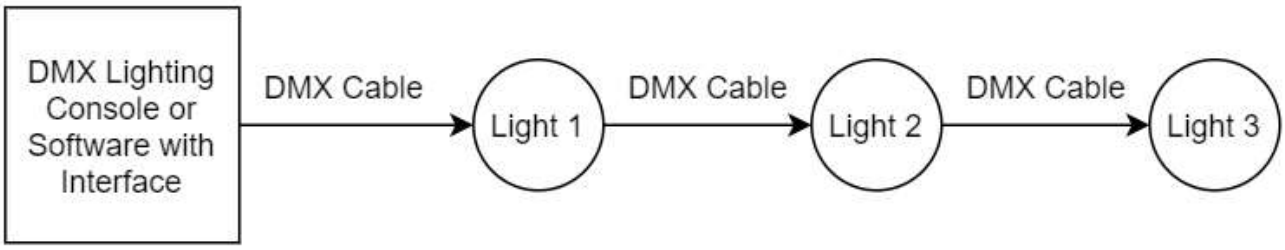
Multiple sets of 512 "universes" may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

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 it's 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.

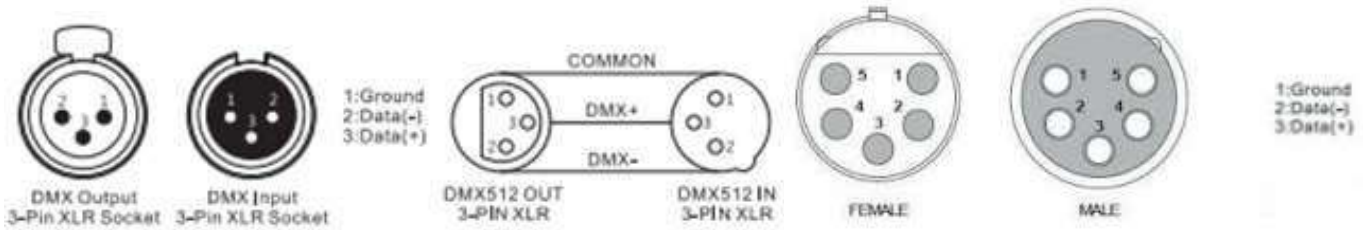
You may then connect your next fixture to the output of your first light, and continue the chain.



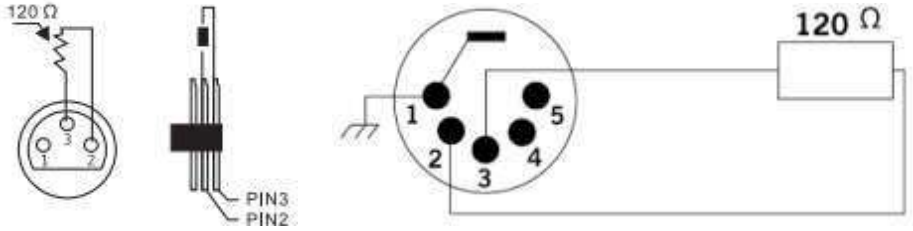
32 Fixture Rule – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

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 Xenon 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. *8 channel and 17 channel are the most commonly used.*

DMX Channel Mode Sheets:

2 DMX Channel	Function	Channel Value	Description
1	Color Selection	0-9	None
		10-13	Red
		14-17	Green
		18-21	Blue
		22-25	Yellow
		26-29	Cyan
		30-33	Magenta
		34-37	White
		38-41	Orange
		42-45	Pink
		46-49	Violet
		50-53	Aquamarine
		54-57	Sky Blue
		58-61	Full White
		62-65	Cool White
		66-69	Warm White
		70-73	White 3200k
		74-77	White 2500k
		78-81	Yellow 2
		82-85	Straw
		86-89	Orange 2
		90-93	Light Rose
		94-97	Dark Pink
		98-101	Magenta 2
		102-105	Blue 2
		106-109	Med Blue Green

		110-113	Dark Blue
		114-117	Bright Pink
		118-121	Medium Blue
		122-125	Golden Amber
		126-129	Deep Golden Amber
		130-133	Pale Lavender
		134-137	Apricot
		138-141	Dark Lavender
		142-145	Chocolate
		145-149	Just Blue
		150-153	Surprise Pink
		154-157	Scarlet
		158-161	Surprise Peach
		162-255	No Function
2	Zoom	0-255	Zoom Min to Max

4 DMX Channel	**Function**	**Channel Value**	**Description**
1	Master Dimmer	0-255	Intensity Control
2	Hue	0-255	Hue
3	Saturation	0-255	Saturation
4	Zoom	0-255	Zoom Min to Max

8 DMX Channel	Function	Channel Value	Description
1	Master Dimmer	0-255	Intensity Control
2	Red	0-255	
3	Green	0-255	
4	Blue	0-255	
5	White	0-50	
6	Strobe	0-8	No Function
		9-255	Strobe from Slow to Fast
7	Zoom	0-255	Zoom Min to Max
8	Zoom Speed	0-255	Zoom Speed

17 DMX Channel	Function	Channel Value	Description
1	Master Dimmer	0-255	Intensity Control
2	No Function		
3	Red	0-255	
4	Red Fine	0-255	
5	Green	0-255	
6	Green Fine	0-255	
7	Blue	0-255	
8	Blue Fine	0-255	
9	White	0-50	
10	White Fine	0-255	
11	Dimmer Curve	0-49	Default Dimmer
		50-99	Dimmer Curve 1
		100-149	Dimmer Curve 2
		150-199	Dimmer Curve 3
		200-255	Dimmer Curve 4
12	Strobe	0-8	No Function
		9-255	Strobe from Slow to Fast
13	Zoom	0-255	Zoom Min to Max
14	Zoom Speed	0-255	Zoom Speed
15	Automatic Programs	0-7	Default
		8-10	Program 1
		11-20	Program 2
		21-30	Program 3
		31-40	Program 4
		41-50	Program 5
		51-60	Program 6
		61-70	Program 7
		71-80	Program 8

		81-90	Program 9
		91-100	Program 10
		101-109	Program 11
		110-255	No Function
16	Auto Programs Speed	0-255	Speed of Automatic Programs
17	Reset	0-200	No Function
		201-220	Reset Zoom Motor
		221-255	No Function

19 DMX Channel	**Function**	**Channel Value**	**Description**
1	Master Dimmer	0-255	Intensity Control
2	No Function		
3	Red	0-255	
4	Red Fine	0-255	
5	Green	0-255	
6	Green Fine	0-255	
7	Blue	0-255	
8	Blue Fine	0-255	
9	White	0-50	
10	White Fine	0-255	
11	Dimmer Curve	0-49	Default Dimmer
		50-99	Dimmer Curve 1
		100-149	Dimmer Curve 2
		150-199	Dimmer Curve 3
		200-255	Dimmer Curve 4
12	Color Macros	0-255	36 Different Color Macros
13	Strobe	0-8	No Function
		9-255	Strobe from Slow to Fast

14	Zoom	0-255	Zoom Min to Max
15	Zoom Speed	0-255	Zoom Speed
16	ID Number	0-255	ID Number (0-66)
17	Automatic Programs	0-7	Default
		8-10	Program 1
		11-20	Program 2
		21-30	Program 3
		31-40	Program 4
		41-50	Program 5
		51-60	Program 6
		61-70	Program 7
		71-80	Program 8
		81-90	Program 9
		91-100	Program 10
		101-109	Program 11
		110-255	No Function
18	Auto Programs Speed	0-255	Speed of Automatic Programs
19	Reset	0-200	No Function
		201-220	Reset Zoom Motor
		221-255	No Function

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:

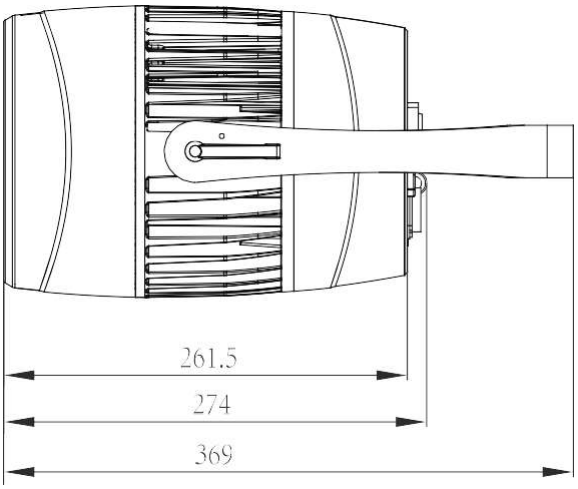
- Check that the unit is plugged in to a working power connector.
- Press the menu button to confirm that the unit is powered on. If the screen does not light up, the unit has no power.

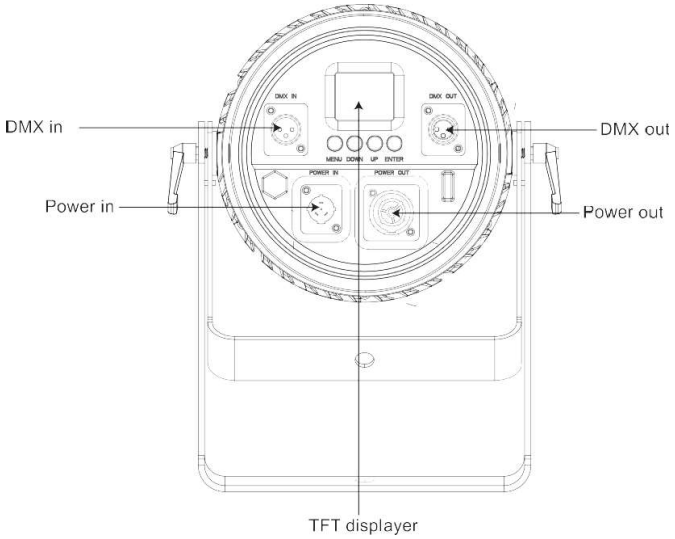
B. Not Responding to the DMX Controller

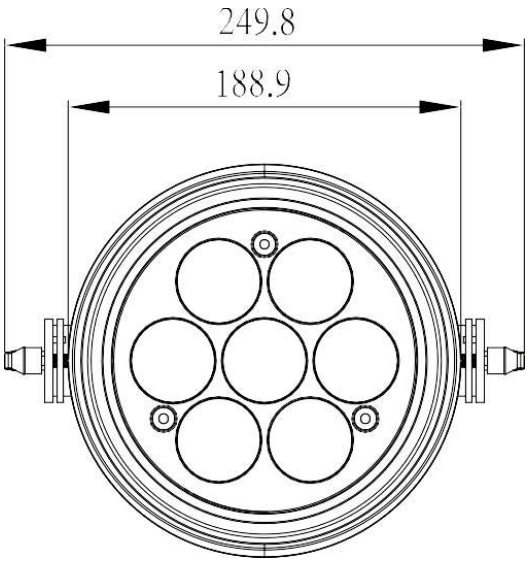
- Check DMX cables to verify that they are plugged in and functional.
- Check the DMX address and mode – does it match the address and mode patched in the lighting console or software?
- Plug the light directly into the DMX controller with a cable that you know is good. Unplug all other lights – does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

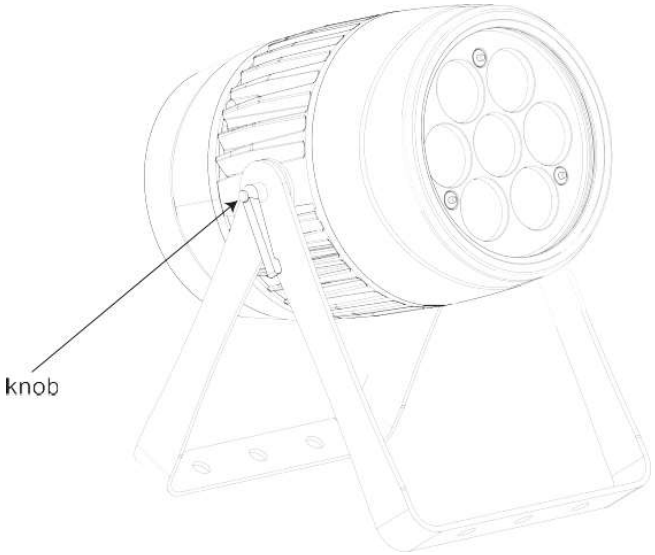
4. Technical Specifications

- Rated voltage: 100V-240VAC, 50/60Hz
- Power Consumption: 150w MAX with active Power Factor Correction
- Fan-free Convection Cooling with Overtemperature Protection
- LEDs: 7 * 20W RGBW
- Lamp rated life: >50000 Hours
- Beam angle: 8° to 50°
- DMX512 Channels: 2,4,8,17,19 channel modes.
- Strobe: Independent electronic strobe
- Control Mode: DMX512 control via 3-pin XLR connectors, Auto Run, Master/ Slave, Sound-Active
- IP Rating: IP 65
- Net Weight: 5 kgs
- Certification: CE, RoHS
- Dimensions – see next page:









Photometric Reports

Photometric Data	FC at Center Zoom in	Zoom Out
1m	--	291
2m	1506	77
3m	680	34
5m	227	12
7m	114	6