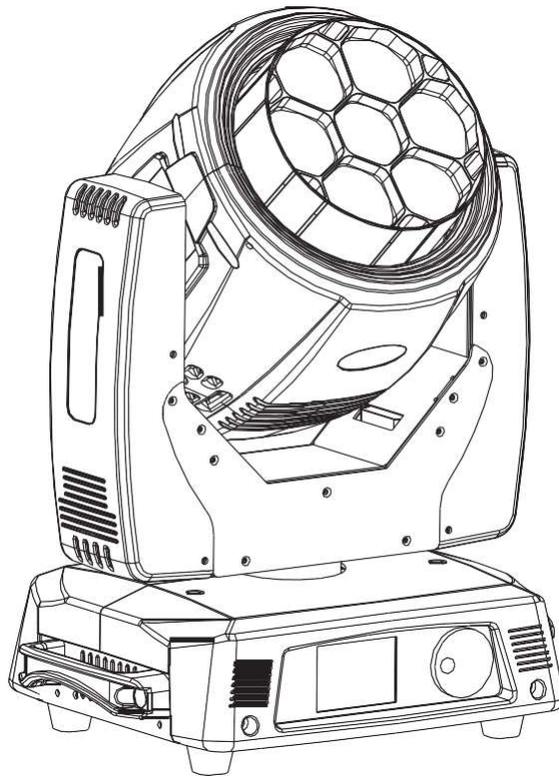


Helix 7

*7*30w Zoomable Wash with
Beam Effects and Pixel Mapping*



User Manual

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1. Introduction and Setup

Unpacking and In the Box

Thank you for choosing our Helix 7. 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 you will find:

- Helix 7 fixture - 1
- Power Cable - 1
- DMX Signal Cable - 1
- User Manual - 1
- Omega Clamps 2

Mounting and Operation

Clamp Mounting: The Helix 7 moving head provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit.

When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the “omega bracket”.

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.

Features

- ◆ 7x30w RGBW LED Wash Light
- ◆ 4°-60° Zoomable Beam Angle
- ◆ Beam Scatter Effect
- ◆ Adjustable Strobe and Dimmer Effect
- ◆ DMX Control

Safety Precautions

Do not expose this fixture to rain or moisture.

Do not spill water or other liquids into or on your unit.

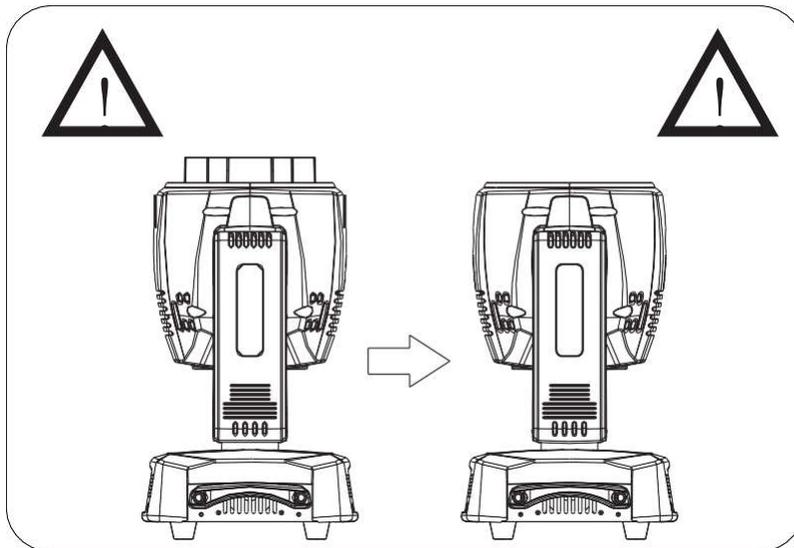
Caution: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel.

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.), and that .5m is kept around the fixture for ventilation.



Before packing, let the head lens retract, or the lens will be destroyed in transportation.

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.GAMMALEDVISION.COM for complete Limited Warranty terms and contact information.

2. Setup and Operation

Using the LCD Menu and Buttons

The Helix 7 features a 4-button system to navigate the menu. Use MENU to enter the menu, Up/Down to change options, and ENTER to confirm.

Menu Operation

Main	Set UP	DMX Address	ADDR:001			
		Channel Mode	Standard			
	Option	Pan/Tilt	Pan/Tilt speed	Normal		
				Fast		
			Pan Invert	Off		
				On		
			Tilt Invert	Off		
				On		
		Display	Swap Pan-Tilt	Off		
				On		
			Display Turned	Off		
				On		
				Backlight	On	
					30 Seconds	
	2 Minutes					
	Font Color	Intensity	0-100%			
			[1/8]Red			
			[2/8]Green			
			[3/8]Blue			
				[4/8]Cyan		

Menu			[5/8]Yellow	
			[6/8]Magenta	
			[7/8]White	
			[8/8]LuxuryGold	
		Special Function	Dimmer Curve	Gamma 1
				Gamma 1.5
				Gamma 2
				S-Curve
	Load Default	Are you sure?		
		NO		
		Yes		
	Main Menu	Information	System Errors	Dimmer :OK/No Signal
				Pan: OK/Errors
				Tilt: OK/Errors
				Zoom: OK/Errors
				ZoomRt: OK/Errors
System Version		Ver:1.0		
		2014-08		
DMX Monitor		Channel Val Perc		
		Red 0 0%		
		...		
Manual Control	Reset Fixture	Are you sure?		
		NO		
		Yes		
	Channel	Channel Val Perc		
		Red 0 0%		
...				

	Test	Pan/Tilt			
		Color			
		Zoom			
		ZoomRotation			
		All			
	Advanced	Access Code	Password:000		
		Calibration	Pan		
			Tilt		
			Zoom		

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.

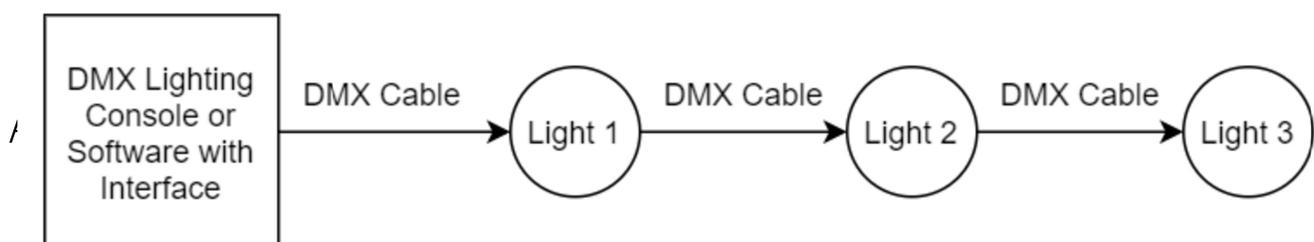
Multiple sets of 512 "universes" may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

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.

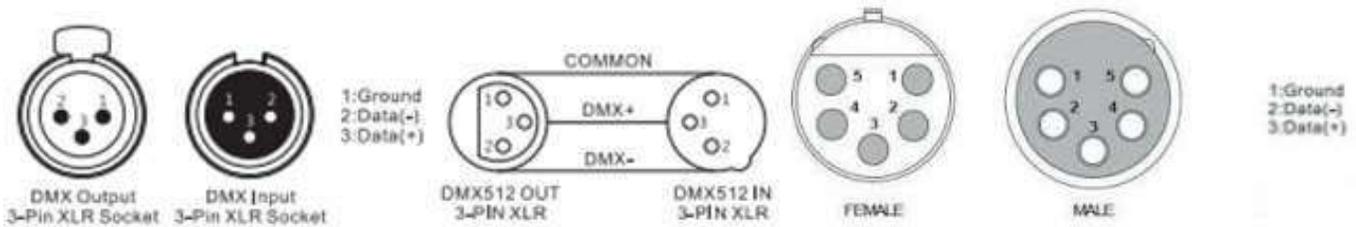
You may then connect your next fixture to the output of your first light, and continue the chain.



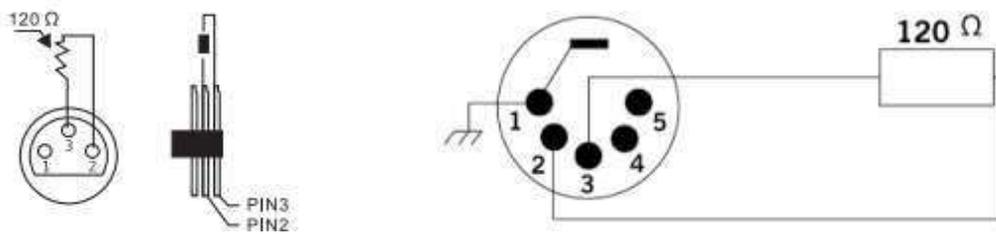
32 Fixture Rule – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

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 Helix 7 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:

See below for the DMX channel layout of the Helix 7:

Standard	Shapes	Extended	Extended RGBW	Full	Function	Chan nel Value	Description
1	1	1	1	1	Red	0-255	Red Dimmer
2	2	2	2	2	Red Fine	0-255	Red, Fine Control
3	3	3	3	3	Green	0-255	Green Dimmer
4	4	4	4	4	Green Fine	0-255	Green, Fine Control
5	5	5	5	5	Blue	0-255	Blue Dimmer
6	6	6	6	6	Blue Fine	0-255	Blue, Fine Control
7	7	7	7	7	White	0-255	White Dimmer
8	8	8	8	8	White fine	0-255	White, Fine Control

Standard	Shapes	Extended	Extended RGBW	Full	Function	Channel Value	Description
9	9	9	9	9	Linear CTO	0-255	CTO Calibration – Full is Warm, Zero is Cool White
10	10	10	10	10	Color Macro	0-255	Selection of Different Pre-Defined Colors
11	11	11	11	11	Strobe	0	Strobe Closed
						1-105	Strobe, Slow to Fast
						106-108	Strobe Open
						109-208	Chase Strobe, Slow to Fast
						209-212	Strobe Open
						213-251	Random Strobe, Slow to Fast
						252-255	Strobe Open
12	12	12	12	12	Dimmer	0-255	Master Dimmer
13	13	13	13	13	Dimmer fine	0-255	Master Dimmer, Fine Control
14	14	14	14	14	Pan	0-255	Pan
15	15	15	15	15	Pan fine	0-255	Pan, Fine Control
16	16	16	16	16	Tilt	0-255	Tilt

Standard	Shapes	Extended	Extended RGBW	Full	Function	Channel Value	Description
17	17	17	17	17	Tilt fine	0-255	Tilt, Fine Control
18	18	18	18	18	Function	0-255	
19	19	19	19	19	Reset	0-255	
20	20	20	20	20	Zoom	0-255	Variable Zoom Control, 4-60°
21	21	21	21	21	Zoom Rotation	0	No Function
						1-127	Zoom Rotation Indexed
						128-192	Zoom Rotation CCW, Fast to Slow
						193-255	Zoom Rotation CW, Slow to Fast
	22			22	Shape Selection		
	23			23	Shape Speed		
	24			24	Shape Shade		
	25			25	Shape R		
	26			26	Shape G		
	27			27	Shape B		
	28			28	Shape W		
	29			29	Shape Dimmer		
	30			30	Background Dimmer		
	31			31	Shape Transition		
	32			32	Shape Offset		

Standard	Shapes	Extended	Extended RGBW	Full	Function	Channel Value	Description
	33			33	Foreground Strobe (reserved)		
	34			34	Background Strobe (reserved)		
	35			35	Foreground Select (reserved)		
		22-42		36-56	Individual Channels for each LED, R,G,B for LED's 1-7		
			22-49		Individual Channels for each LED, R,G,B,W for LED's 1-7		

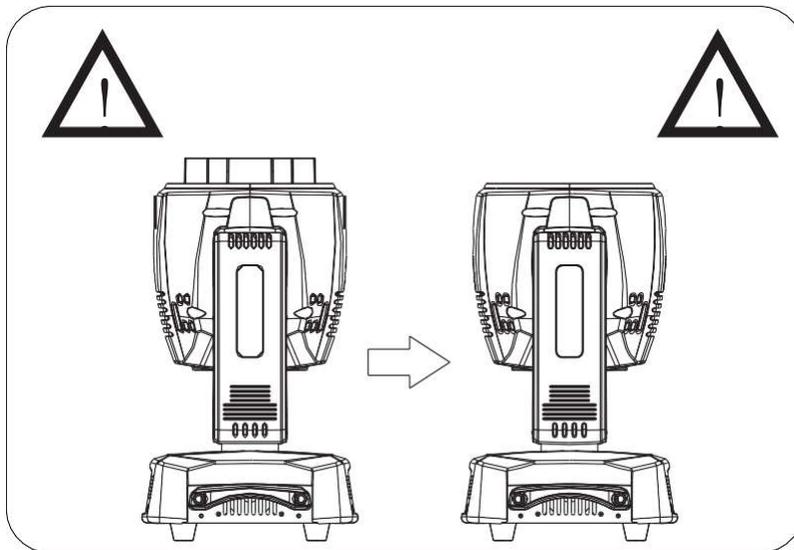
3. Maintenance

Routine Maintenance

Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.

- ◆ Clean with soft cloth using normal glass cleaning fluid.
- ◆ Always dry the parts carefully.
- ◆ Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.



Before packing, let the head lens retract, or the lens will be destroyed in transportation.

Troubleshooting Problems

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

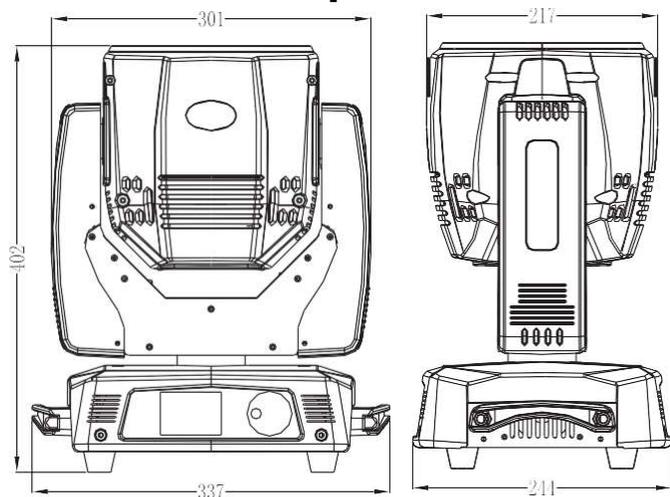
A. The unit does not work:

- 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



Aluminum frame with high-quality plastic body.

(2) side handles for carrying.

Pan/Tilt Locks

Voltage: AC100-240V 50/60HZ

LED light Source: 7*30w RGBW - 50,000 hour life.

Motorized Zoom (4°-60°) and Beam Rotation/Scatter Effect

Variable Strobe Control

Full RGBW Color Mixing

Quiet and Smooth Pan and Tilt: Pan=540°, Tilt=210°

DMX512, 3- Pin DMX Input and output.

2-Pole circuit breaker with thermal protection.

Overtemp Protection

Forced Ventilation via Fans

¼ Turn Omega Clamps for Mounting on Base