

Silhouette Oculus

7x40

280w Wash Moving Light with Pixel Mapping and Lens Rotation



User Manual

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1. Introduction and Setup

Unpacking and In the Box

Thank you for choosing our Silhouette Oculus 7x40. 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:

- Silhouette Oculus 7x40 Fixture 1
- Omega Bracket1 2
- PowerCon Compatible Power Cable 1
- DMX 3 Pin Cable 1

Features

- 7 x 40w RGBW LED's
- 8°- 41° Degree Motorized Zoom
- Rotating Lens Beam FX
- Pan: 540°, 16 Bit
- Tilt: 280°, 16 Bit
- Dimmer: 16 Bit
- 3 pin DMX input/output
- PowerCon compatible power input/output
- Quiet, variable-speed fans
- 13.5lbs / 6.2kg

Mounting and Operation

Clamp Mounting: The Silhouette Oculus 7x40 provides an omega bracket which you can attach a clamp to for typical clamp mounting. Once the clamp is attached to the omega bracket, you can attach the omega bracket to the fixture via the 1/4 turn fasteners.

As an added safety measure be sure to attach at least one properly rated safety cable to the fixture using one of the handles.

Safety Precautions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Do NOT operate if the fixture is not capable of a full range of unrestricted motion.

Move any objects away from the unit, do not allow the moving head to hit any objects. Failure to do so may cause damage outside of scope of the warranty.

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.).

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.

DO NOT connect the device to any dimmer pack.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.

Don't try to modify the fixture without any instruction by the manufacturer.

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, etc.

Fixture must be 1' from any flammable materials. Do not light any flammable objects closer than 6.5 feet.

Do not allow other fixtures to shine a focused beam upon the display or lenses of this fixture.

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 menu on this light consists of 4 arrow keys and an “OK” button in the center. The **right arrow** allows you to enter the menu or a submenu. The **left arrow** allows you to go back to the previous menu level.

The **up and down arrows** allow you to navigate between items within a menu or change the selected item on a setting. Hit **OK** when complete to save your setting.

Menu Settings:

Menu Item	Sub Menu	Setting:	Description
Address		001-512	Set the DMX Address, 1-512
Setting	Dis_Reve	Natu, Rev1	Choose Rev1 to reverse the screen for hanging fixtures.
	Language	Engh, Chin	Choose between English and Chinese
	DMX Mode	23CH, 35CH, 51CH	Choose the DMX channel mode
	RunMode	DMX, Auto, Musc	Choose between DMX, auto-programs and Music (sound-active) modes.
	M/S Mode	Mast/Slve	Set master/slave for auto program modes.
	DimmMode	Norm, Slow, Fast	Set the dimmer mode to your preference.
	Xreverse	Open/Off	Choose “open” to reverse the pan.

Menu Item	Sub Menu	Setting:	Description
	Yreverse	Open/Off	Choose "open" to reverse the tilt.
	XY Speed	Fast/Norm/Slow	Set the pan/tilt speed.
	XYFback	Open/Off	Choose "off" to disable both the pan and tilt correction encoders.
	XYFback	Open/Off	This is a duplicate, please disregard.
	Soundlevel	100%-0%	Set the microphone sensitivity for sound-active mode.
	WhiteSW	Open/Off	When set to "open" the 4 options below allow you to set a max level for each color channel in the light.
	White R	000-255	Red calibration control
	White G	000-255	Green calibration control
	Nite G	000-255	Blue calibration control
	White W	000-255	White calibration control
	Return		Return to the previous menu.
Manual	<i>Option for each channel</i>	000-255	Manual control

Menu Item	Sub Menu	Setting:	Description
	<i>available on the light.</i>		of each channel for testing.
Status	<i>View the status of various sensors/timers within the light.</i>		
Tools	<i>The tools menu offers factory calibration tools, protected by a passcode.</i>		
DMXLevel	Each channel's current DMX level is shown.		
All reset		Annu/Exec	Use "Exec" to reset the light.

DMX Setup

Patching Guidelines:

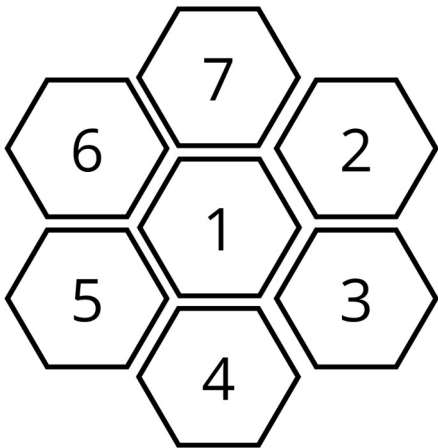
The Oculus 7x40 features full pixel control for up to 7 pixels. There are (3) DMX Modes available – 23CH, 35CH, and 51CH.

The 23CH mode offers basic, non-pixel control with some "dynamic effect macros" which allow you to create some animations on the light with color control.

The 35CH mode gives you full "shapes" macros, which give you great control of the built-in animations.

The 51CH mode offers full pixel control of the 7 pixels, plus a master section which allows you to control the entire light as 1 pixel.

The pixels lay out as follows (when hanging):



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.

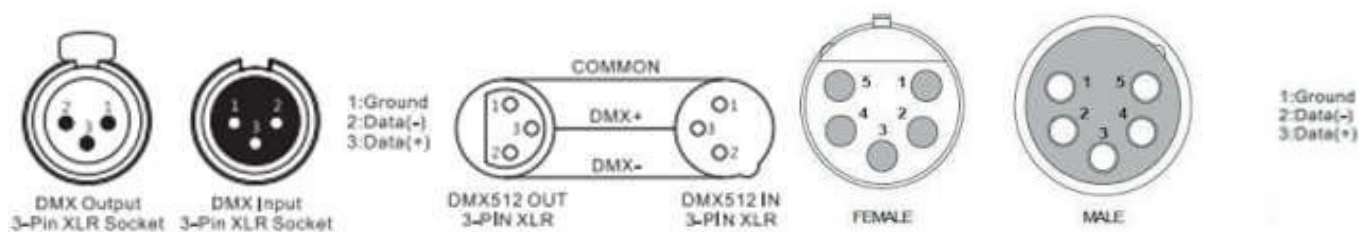
DMX lights connect in what is called a “daisy-chain”. Your first DMX cable will plug its male DMX connector into the female DMX connector on your lighting console. The remaining female connector will then connect to the DMX input on your first light.

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

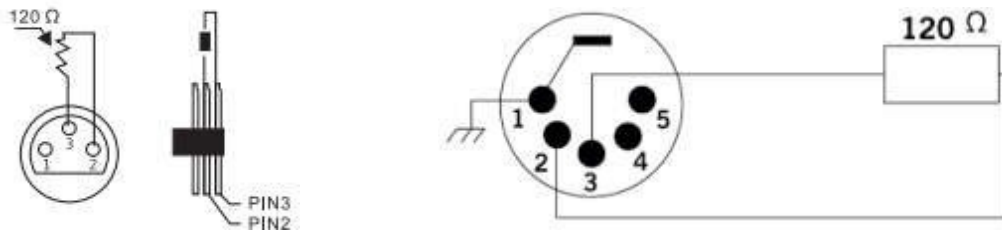
32 Fixture Rule – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

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

Note: Most consoles/software should list this fixture by it's name, however Chamsys MagicQ does not copy/rename profiles. In Chamsys, you should be able to patch this fixture as "China / SVP WB7x40 Bee Eye"

DMX Channel Mode Sheet:

23CH	35CH	51CH	Function	Channel Value	Description
1	14	1	Pan	0-255	540° Pan
2	15	2	Pan Fine	0-255	Pan Fine
3	16	3	Tilt	0-255	205° Tilt
4	17	4	Tilt Fine	0-255	Tilt Fine
5		5	PT Speed	0-255	Slow to Fast
	18		No Function		
6	20	6	Zoom	0-255	Narrow to Wide (3.5° - 45°)
7	21	7	Lens Rotation	0-127	Lens Indexing
				128-188	Lens Rotate CCW
				191-193	Stop
				194-255	Lens Rotate CW
8	12	8	Dimmer	0-255	Intensity Control, 0-100%
	13		Dimmer Fine	0-255	Fine Control of Intensity
9	11	9	Strobe	0-3	Open
				4-103	Strobe, Fast to Slow
				104-107	Open

23CH	35CH	51CH	Function	Channel Value	Description
				108-207	Pulse Strobe, Fast to Slow
				208-212	Open
				213-225	High Speed Random Strobe
				226-238	Medium Speed Random Strobe
				239-251	Low Speed Random Strobe
				252-255	Open
10	1	10	Red	0-255	Red Dimming, Full Fixture
	2		Red Fine	0-255	Fine Control of Red
11	3	11	Green	0-255	Green Dimming, Full Fixture
	4		Green Fine	0-255	Fine Control of Green
12	5	12	Blue	0-255	Blue Dimming, Full Fixture
	6		Blue Fine	0-255	Fine Control of Blue
13	7	13	White	0-255	White Dimming, Full Fixture
	8		White Fine	0-255	Fine Control of White
14	9	14	Linear CTO	0-255	Linear CTO
15	10	15	Macro Colors (Static)	0-255	A selection of static, pre-mixed colors.
16		16	Static Effect	0-255	A selection of static pixel effects.
17		17	Dynamic Effect	0-255	A selection of dynamic pixel effects.
18		18	Effect Speed	0-255	Effect Speed for Dynamic Effects, Slow to Fast
19		19	Background R	0-255	Background Intensity for Effects, Red
20		20	Background G	0-255	Background Intensity for Effects, Green
21		21	Background B	0-255	Background Intensity for Effects, Blue

23CH	35CH	51CH	Function	Channel Value	Description
22		22	Background W	0-255	Background Intensity for Effects, White
	22		Shape Selection	0-255	Select the macro shape
	23		Shape Speed	0-255	Speed of shapes animation
	24		Shape Fade	0-255	Fade Percentage of Animation Steps
	25		Shape R	0-255	Red Control of Shape
	26		Shape G	0-255	Green Control of Shape
	27		Shape B	0-255	Blue Control of Shape
	28		Shape W	0-255	White Control of Shape
	29		Shape Dimmer	0-255	Intensity Control of Shape
	30		Background Dimmer	0-255	Intensity Control of Background
	31		Shape Transition	0-255	Adjustment of Background/Foreground
	32		Shape Offset	0-255	Move the Shape Focal Point
	33		Foreground Strobe	0-255	Strobe on Shape
	34		Background Strobe	0-255	Strobe on Background
	35		Background Select	0-255	Background Shape Selection
23	19	23	Reset	0-127	No Function
				128-255	Reset All
		24	LED 1 Red	0-255	Red Intensity – LED 1
		25	LED 1 Green	0-255	Green Intensity – LED 1
		26	LED 1 Blue	0-255	Blue Intensity – LED 1
		27	LED 1 White	0-255	White Intensity – LED 1
		28	LED 2 Red	0-255	Red Intensity – LED 2
		29	LED 2 Green	0-255	Green Intensity – LED 2
		30	LED 2 Blue	0-255	Blue Intensity – LED 2
		31	LED 2 White	0-255	White Intensity – LED 2

23CH	35CH	51CH	Function	Channel Value	Description
		32	LED 3 Red	0-255	Red Intensity – LED 3
		33	LED 3 Green	0-255	Green Intensity – LED 3
		34	LED 3 Blue	0-255	Blue Intensity – LED 3
		35	LED 3 White	0-255	White Intensity – LED 3
		36	LED 4 Red	0-255	Red Intensity – LED 4
		37	LED 4 Green	0-255	Green Intensity – LED 4
		38	LED 4 Blue	0-255	Blue Intensity – LED 4
		39	LED 4 White	0-255	White Intensity – LED 4
		40	LED 5 Red	0-255	Red Intensity – LED 5
		41	LED 5 Green	0-255	Green Intensity – LED 5
		42	LED 5 Blue	0-255	Blue Intensity – LED 5
		43	LED 5 White	0-255	White Intensity – LED 5
		44	LED 6 Red	0-255	Red Intensity – LED 6
		45	LED 6 Green	0-255	Green Intensity – LED 6
		46	LED 6 Blue	0-255	Blue Intensity – LED 6
		47	LED 6 White	0-255	White Intensity – LED 6
		48	LED 7 Red	0-255	Red Intensity – LED 7
		49	LED 7 Green	0-255	Green Intensity – LED 7
		50	LED 7 Blue	0-255	Blue Intensity – LED 7
		51	LED 7 White	0-255	White Intensity – LED 7

3. Maintenance

Routine Maintenance

The cleaning of lens must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smokey, or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

- Clean with a damp, soft cloth..
- Always dry the parts carefully.
- Clean the external optics at least every 20 days in demanding environments.

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.

Dimensions:



13.5" Tall, 11.5" Wide, 6.75" Deep

5. Photometrics

All Brightness Measurements below are in FC

Distance	Brightness Minimum Zoom (8°)	Brightness 50% Zoom (16°)	Brightness Full Zoom (41°)
5'	7140	2900	843
10'	1785	736	224
15'	924	365	98
20'	446	184	56
25'	352	128	35.5
30'	231	91	19

Spectral Distribution At Full Brightness:

