GLZ19S Zoom LED Wash

User manual

Thanks for choosing our goods please read this manual carefully before your operating

Contents

Introduction

This kind of wash use 19*15W Osram 4in1 RGBW leds with low energy consumption super brightness and long life time,it allow you to create an endless range of variations color and super effects.

19pcs 15W multi color LEDs individually controllable offer more options for the designers and also with eye candy looks LEDs offer single lens with fully pre mixed color. Beam angle zooming 11-58 degrees provide both Beam and Wash effects.

Features

Color mixing: multi RGBW 4 in 1 LED,individually controllable with eye candy looks

LED board,RGB color mixing.

Beam color temperature control: CTO variable 10 000 - 2500 K

5 DMX Channels mode: 14CH 17CH 28CH 74CH 93CH 85CH

Color LCD display,New design operation buttons

Input : 100V~240V,50Hz~60Hz

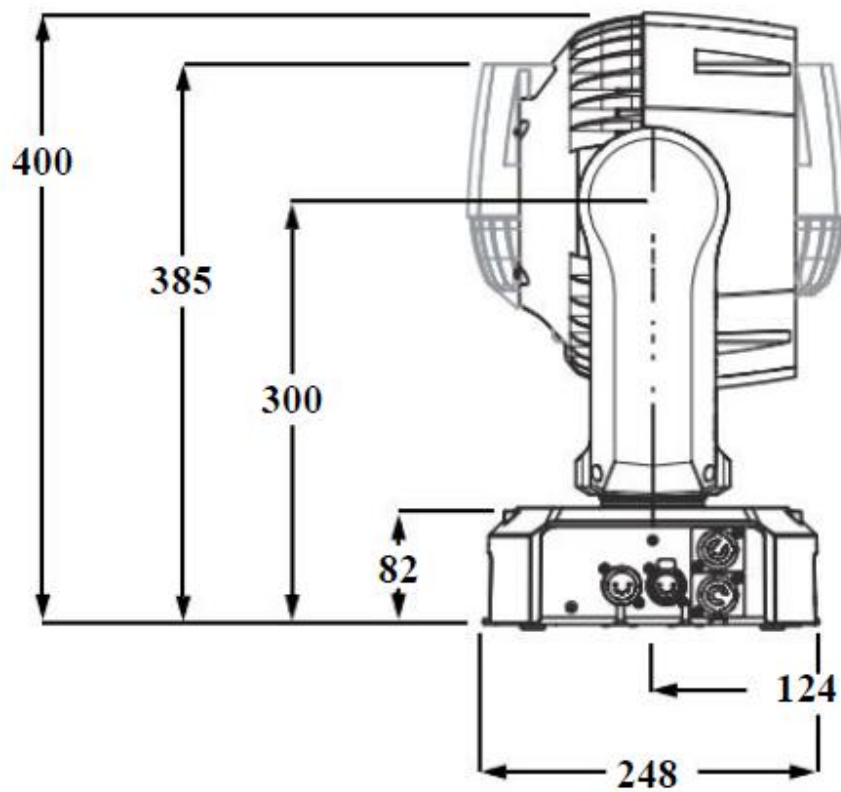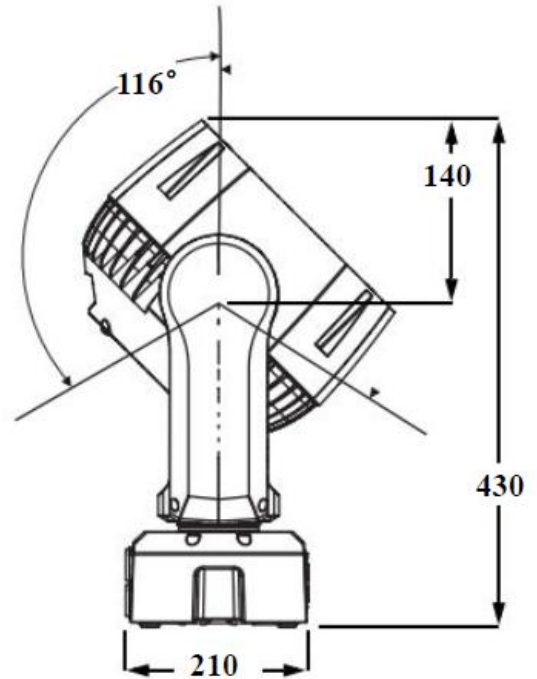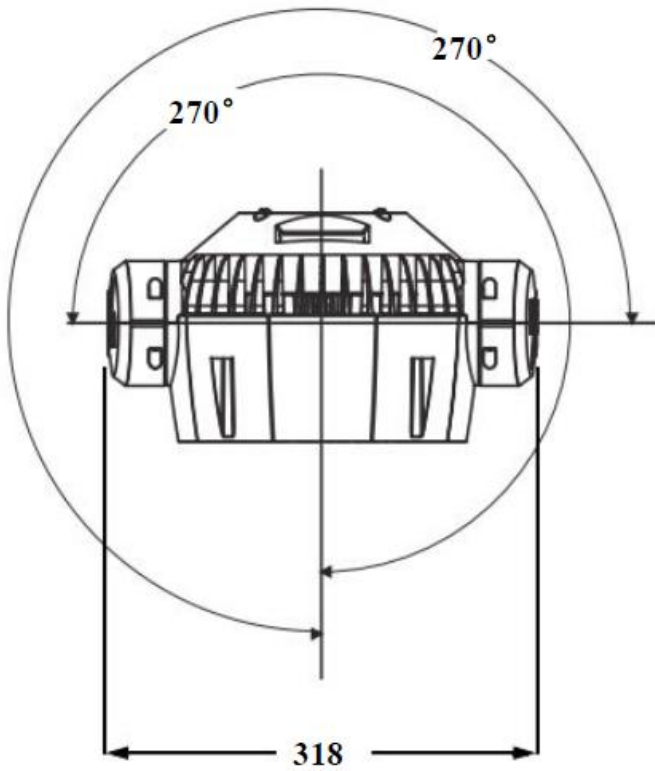DMX input port:3pin;5pin XLR

Pan / tilt:540°/ 270°16bit

Fan cooling

Color macro effects

Linear smooth dimming 0-100%

Dimensions

AII dimensions are in millimeters

270°
270°
318

116°
140
430
210

400
385
300
82
124
248

Safety Information

> **WARNING!**
> Read the safety precautions in this section before
> installing, powering, operating or servicing this
> product.

The following symbols are used to identify important safety information on the product and in this manual

DANGER!	DANGER!	WARNING!	WARNING!	WARNING!	WARNING!	WARNING!
Safety hazard.	Hazardous	Fire hazard.	LED light	Burn hazard.	Wear protective	Refer to user
Risk of severe	Voltage.Risk		emission. Risk	Hot surface.	eyewear.	manual.
injury or death	of lethal or		of eye injury.	Do not touch		
	electric shock.			it.		

Warning!

Risk Group 3 (high risk) LED product according to EN 62471. Do not view the light

Output with optical instruments or any devices that may concentrate the beam.

This product is for professional use only.It is not for household use.

This product exist risks of severe injury or dead due to fire and burn hazard.!

electric shock and falls.

Read this manual before installing powering or servicing the fixture.

follow the safety precautions below and observe all warnings in this manual and printed on

the fixture.Contact the dealer if needed.

PROTECTION FROM ELECTRIC SHOCK

• Disconnect the fixture from AC power before removing or installing any cover or part and when not in use.

• Always ground (earth) the fixture electrically.

• Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.

• Before using the fixture check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.

• Power input and throughput cables must be rated 20 A minimum,have three conductors 1.5 mm2 (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm (0.2 - 0.6 in.). Cables must be hard usage type (SJT or equivalent) and heat-resistant to 90°C (194° F) minimum. In the EU the cable must be HAR approved or equivalent.

• Use only Neutrik Powercon NAC3FCA cable connectors to connect to power input sockets. Use only Neutrik Powercon NAC3FCB cable connectors to connect to power throughput sockets.

• Isolate the fixture from power immediately if the power plug or any seal cover cable or other component is damaged defective deformed wet or showing signs of overheating. Do not reapply power until repairs have been completed.

• Do not expose the fixture to rain or moisture.

PROTECTION FROM BURNS AND FIRE

• Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C (104° F).

• The exterior of the fixture becomes hot during use. Avoid contact by persons and materials. Allow the fixture to cool for at least 10 minutes before handling.

• Keep all combustible materials (e.g. Fabric,wood,paper) at least 100 mm (3.9 in.) away,from the fixture.

• Keep flammable materials well away from the fixture.

• Ensure that there is free and unobstructed airflow around the fixture.

• Do not expose the front glass to sunlight or other strong light sources from any angle.

• Do not illuminate surfaces within 200 mm (7.9 ins.) of the Gaea.

• Do not attempt to bypass thermostatic switches or fuses.

• Do not stick filters masks or other materials onto any optical component.

• Do not modify the fixture in any way not described in this manual

PROTECTION FROM INJURY

• Do not look at LEDs with magnifiers telescopes binoculars or similar optical instruments that may concentrate the light output.

• Fasten the fixture securely to a fixed surface or structure when in use. The fixture is not portable when installed.

• Ensure that any supporting structure and/or hardware used can hold at least 10 times the weight of all the devices they support.

• Allow enough clearance around the head to ensure that it cannot collide with an object or another fixture when it moves.

• Check that all external covers and rigging hardware are securely fastened.

• Block access below the work area and work from a stable platform whenever installing servicing or moving the fixture.

• Do not operate the fixture with missing or damaged covers shields or any optical component.

Using for the first time

Important! Open the package make sure everything is in good conditions before using if damage happened please don't connect power ,contact the supplier as soon as possible !

Please read carefully before using"Safety Information"

• Check that the local AC mains Dower source is within the fixture's Dower

AC power

Warning! Read "Safety Information" starting on page 5 before connecting the Gaea to AC mains power.

Warning! For protection from electric shock,the Gaea must be grounded (earthed).The power distribution circuit must be equipped with a fuse or circuit breaker and ground-fault (earth-fault) protection.

Warning! Socket outlets or external power switches used to supply the Gaea with power must be located near the fixture and easily accessible so that the fixtures can easily be disconnected from power.

Important!Do not insert or remove live Neutrik Powercon connectors to apply or cut power ,as this may cause arcing at the terminals and damage the connectors.

Important! Do not use an external dimming system to supply power to the Gaea as this may cause damage to the fixture that is not covered by the product warranty.

Power voltage

Warning! Check that the voltage range specified on the fixture's serial number label matches the local AC mains power voltage before applying power to the fixture.

Gaea fixtures accept AC mains power at 100-240 V nominal50/60 Hz. 00 not apply AC mains power to the fixture at any other voltage than that specified on the fixture's serial number label.

Data link

A DMX 512 data link is required in order to control a Gaea via DMX.
The Gara has 5-pin XLR connectors for DMX data input and output. The pin-out on all connectors is pin 1= shield ,pin 2 = cold (-),and pin 3 = hot (+). Pins 4 and 5 in the 5-pin XLR connectors are not used in the Gaea but are available for possible additional data signals as required by the DMX512-A standard.

Standard pin-out is pin 4 = data 2 cold (-) and pin 5 = data 2 hot (+).
The number of fixtures is either limited to 256 or limited by the number of DMX channels required by the fixtures in relation to the maximum 512 channels available in one DMX universe whichever limit is lower. Note that if independent control of a fixture is required it must have its own DMX channels. Fixtures that are required to behave identically can share the same DMX channels.

To add more fixtures or groups

Connecting the data link

Connecting the data link

To connect the Gaea to data:

1.Connect the DMX data output from the controller to the closest Gaea's male 5-pin XLR DMX input connector.

2. Connect the DMX output of the fixture closest to the controller to the DMX input of the next fixture and continue connecting fixtures output to input.

3. Terminate the last fixture on the link with a 120 Ohm resistor.

after Gaea power on if there is no DMX input,display and buttons will flash.After DMX input flash stops,then it is under DMX control model,20 seconds later display goes to power saving model and also the buttons.

Setup

Control panel and menu navigation

Gaea control center to set the DMX.

When you choose a menu press OK , △ or ▽ view menus.

After finding your meau,Press ◁ to enter OK ,quit ▷

After out of menu,press ◁ to see the working condition.

Menu chart:

Control Menu Map					
Level l	Level 2	Level 3	Level4	Level5	Level6
Setup	DMX Address	Addr: 001 - 512	001		
	Channel Mode	Standard Shape Extended Extended RGBW Full MAC Aura-14CH			
Option	Pan/Tilt	Pan/Tilt speed	Normal Fast		
		Pan Invert	Off, On		
		Tilt Invert	Off, On		
		Swap Pan-Tilt	Off, On		

	Fan Mode	Auto			
		High			
	Display	Orientation	Normal Inverted		
		Back light	On, 30Seconds, 2 Minutes, 5 Minutes		
		Intensity	Intensity 20% -100%	80	
		Font Color	Red, Green, Blue, Cyan, Yellow, Magenta, White, Luxury, Gold,		
	Special Function	Dimmer Curve	Gamma 1 Gamma 1.5 Gamma 2 S-Curve		
	Load Default	No Yes			
Information	System Errors	Dimmer:No Signal Pan:OK Tilt:OK Zoom:OK			
	System Version				

	DMX Monitor	Red 255 100% Green 255 100% ... Bkg Select 255 100%			
Manual Control	Reset Fixture	All			
		Pan/Tilt			
		Zoom			
	Channel	Red 255 100% Green 255 100% ... Bkg Select 255 100%		0-255	
Test	Pan/Tilt				
	Co1our				
	Zoom				
	All				
Advanced	Access Code				
	Calibration	Pan	-127-127		
		Tilt	-127-127		
		Zoom	-127-127		

Operation and effects

Warning! Read "Safety Information" starting on page 5 before installing powering,operating.

Beam and Aura

The Gaea has two LED arrays:
• The Beam: the LEDs that provide the main output,and
• The Gaea: the secondary LEDs that illuminate the front of the head,provide local diffuse light output and can be set to contrast with the Beam output.

Dimming

Beam and Aura intensity can be adjusted 0 - 100% using electronic dimming.

Zoom

The Beam can be zoomed from 580 to maximum (narrow) 110 one-tenth peak angles.
Aura output is automatically dimmed as the zoom approaches maximum.
There is a linear dimming curve from normal Aura output when the Beam is
at 90% zoom,to zero Aura output when the Beam is at maximum (narrow) zoom.

Macros

Gaea Beam static macros xxx dynamic macros xxx   speed controllable.

RGBW and RGB control

RGBW or RGB color control is available for the Beam and RGB control is available for the Aura.

To obtain consistent color output at different intensities,do not use the RGBW or RGB channels to control overall intensity. Instead,set the desired color on the RGBW or RGB channels then use the dedicated beam dimmer and Aura dimmer channels to control intensity.

LED individual controllable

Gaea Beam is with 19pcs RGBW 4 in 1LEDs each RGBW controllable of each LED,you can make pixel map as you want to see from the front of LCD display ,Gaea LED arrangements:
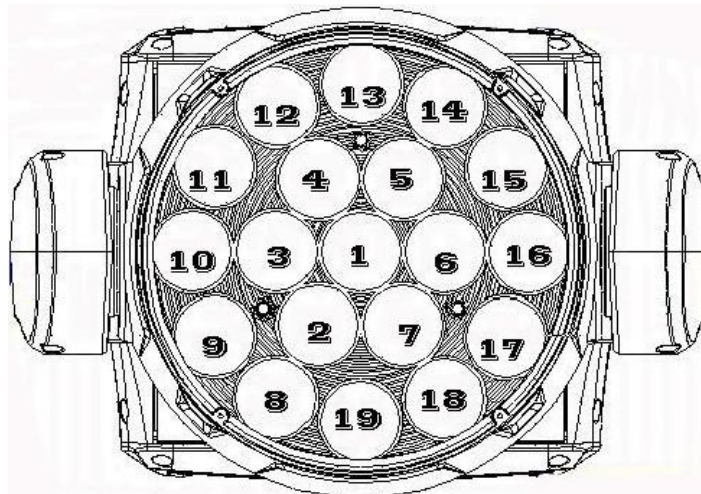
Note: At extended,extended RGBW,full 3 models,LED arrangements are the same.

DMX PROTOCOL

Channel					Value	Function
Std.	Shape	Ext.	RGBW	Full		
1	1	1	1	1	0-255	Red Dimmer 0% - 100%
2	2	2	2	2	0-255	Green Dimmer 0% - 100%
3	3	3	3	3	0-255	Blue Dimmer 0% - 100%
4	4	4	4	4	0-255	White Dimmer 0% - 100%
5	5	5	5	5	 0-9 10-255	Linear CTO Unsed Range 2500K - 8000K
6	6	6	6	6	 0-9 10 11 12 13 14 15 16 17 18 19 20 - 22 23 - 26 27 - 28 29 30 31 32 - 34 35 - 44	Macro color OFF Red Green Blue Cyan Yellow Magenta White 7000K White 3700K White 5000K Black Medium Yellow Straw Tint Surpriss Peach Fire Medium Amber Gold Amber Dark Amber Sunrise Red

					45	Light Pink
					46 - 48	Medium Pink
					49 - 61	Pink Camation
					62 - 67	Light Lavender
					68 - 77	Lavender
					78 - 88	Sky Blue
					89 - 99	Just Blue
					100 - 109	Dark Yellow Green
					110 - 111	Spring Yellow
					112	Light Amber
					113	Straw
					114	Deep Amber
					115 - 116	Orange
					117	Light Rose
					118	English Rose
					119	Light Salmon
					120	Middle Rose
					121 - 122	Dark Pink
					123 - 124	Magenta
....	....	....	....	....	125	Peacock Blue
					126	Med Blue Green
					127	Steel Blue
					128	Light Blue
					129 - 130	Dark Blue
					131 - 133	Leaf Green
					134 - 135	Dark Green
					136 - 137	Mauve
					138 - 141	Bright Pink
					142 - 144	Medium Blue
					145	Deep Golden Amber
					146	Pale Lavender
					147 - 148	Special Lavender
					149 - 150	Primary Green
					151 - 156	Bright Blue
					157 - 161	Apricot
					162 - 167	Pale Gold
					168 - 171	Deep Orange
					172 - 173	Bastard Amber
					174	Flame Red
					175 - 178	Daylight Blue

·······	·······	·······	·······	·······	179 180 - 183 184 - 190 191 - 206 207 208 209 - 255	Lilac Tint Deep Lavender Dark Steel Blue Congo Blue Alice Blue Dirty White White
7	7	7	7	7	0 - 3 4 - 103 104 - 107 108 - 207 208 - 212 213 - 251 252 - 255	Strobe Close Strobe Slow to Fast Open Pulsation Slow to Fast Open Random Slow to Fast Open
8	8	8	8	8	0-255	Master Dimmer 0%- 100%
9	9	9	9	9	0-255	Pan Pan 0° - 540 °
10	10	10	10	10	0-255	Pan Fine Pan Fine
11	11	11	11	11	0-255	Tilt Tilt 0° -210°
12	12	12	12	12	0-255	Tilt Tilt Fine
13	13	13	13	13	0-25 26-76 77-127 128-255	Reset Unused Range Zoom Reset Pan/Tilt Reset All Reset
14	14	14	14	14	0-255	Zoom Beam wide to Narrow
15	15	15	15	15	0-255	Wash Red Dimmer 0% - 100%
16	16	16	16	16	0-255	Wash Green Dimmer 0% - 100%
17	17	17	17	17	0-255	Wash Blue Dimmer 0% - 100%
·······	18	·······	·······	18	0-7 8 - 14 15 - 71 72 - 255	Shape Selection Macro OFF Static Effects Macro Unused Range

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......	19	......	......	19	0-63 64 - 158 159 - 160 161 - 255	Shape Speed Stop Max to Min speed,c.cw rotation Stop Min to max speed,cc rotation
......	20	....	......	20	0-255	Shape R Dimmer 0% - 100%
......	21	....	......	21	0-255	Shape G Dimmer 0% - 100%
......	22	....	......	22	0-255	Shape B Dimmer 0% - 100%
......	23	....	......	23	0-255	Shape W Dimmer 0% - 100%
......	24	....	......	24	0-255	Shape Dimmer Dimmer 0% - 100%
......	25	....	......	25	0-255	Background Dimmer Dimmer 0% - 100%
......	26	......	......	26	0-3 4 - 103 104 - 107 108 - 207 208 - 212 213-251 252 - 255	Shape Strobe Close Strobe Slow to Fast Open Pulsation Slow to Fast Open Random Slow to Fast Open
......	27	......	......	27	0-3 4 - 103 104 - 107 108 - 207 208 - 212 213-251 252 - 255	Background Strobe Close Strobe Slow to Fast Open Pulsation Slow to Fast Open Random Slow to Fast Open

......	28	......	......	28	0-8 9 10 II 12 13 14 15 16 - 255	Back ground Select No selection Pixel 1 Ring 2 Ring 3 Pixel 1 + Ring 3 Pixel 1 + Ring 2 Pixel 1 + Ring 2 + Ring 3 Ring 2 + Ring 3 No selection
......	......	18	18	29	0-255	**LED1R** Dimmer 0% - 100%
......	......	19	19	30	0-255	**LED1 G** Dimmer 0% - 100%
......	......	20	20	31	0-255	**LED1 B** Dimmer 0% - 100%
......	......	......	21	......	0-255	**LED1 W** Dimmer 0% - 100%
......	......	......	......	......	......	**......**
......	......	72	90	83	0-255	**LED19 R** Dimmer 0% - 100%
......	......	73	91	84	0-255	**LED19G** Dimmer 0% - 100%
......	......	74	92	85	0-255	**LED19B** Dimmer 0% - 100%
......	......	......	93	......	0-255	**LED19W** Dimmer 0% - 100%

14 DMX Protocol		
Channel	DMX Value	Function
1	0 1 - 103 104 - 107 108 - 207 208 - 212 213 - 251 252 - 255	Strobe Close Strobe Slow to Fast Open Pulsation Slow to Fast Open Random Slow to Fast Open
2	0 - 255	**Beam dimmer** 0 → 100% intensity
3	0 - 255	**Zoom** Wide → narrow
4	0 - 255	**Pan** Pan 0° - 540°
5	0 - 255	**Pan fine** Pan fine adjustment (Least Significant Byte)
6	0 - 255	**Tilt** Tilt 0° - 232°
7	0 - 255	**Tilt fine** Tilt fine adjustment
8	10-14	Reset all the light

		Beam color wheel effect
	0 - 9	Open. RGBW color mixing enabled
	10 - 14	LEE 790 - Moroccan pink
	15 - 19	LEE 157 - Pink
	20 - 24	LEE 332 - Special rose pink
	25 - 29	LEE 328 - Follies pink
	30 - 34	LEE 345 - Fuchsia pink
	35 - 39	LEE 194 - Surprise pink
	40 - 44	LEE 181 - Congo Blue
	45 - 49	LEE 071 - Tokyo Blue
	50 - 54	LEE 120 - Deep Blue
	55 - 59	LEE 079 - Just Blue
	60 - 64	LEE 132 - Medium Blue
	65 - 69	LEE 200 - Double CT Blue
	70 - 74	LEE 161 - Slate Blue
	75 - 79	LEE 201 - Full CT Blue
	80 - 84	LEE 202 - Half CT Blue
	85 - 89	LEE 117 - Steel Blue
	90 - 94	LEE 353 - Lighter Blue
	95 - 99	LEE 118 - Light Blue
	100 - 104	LEE 116 - Medium Blue Green
	105 - 109	LEE 124 - Dark Green
9	110 - 114	LEE 139 - Primary Green
	115 - 119	LEE 089 - Moss Green
	120 - 124	LEE 122 - Fern Green
	125 - 129	LEE 738 - JAS Green
	130 - 134	LEE 088 - Lime Green
	135 - 139	LEE 100 - Spring Yellow
	140 - 144	LEE 104 - Deep Amber
	145 - 149	LEE 179 - Chrome Orange
	150 - 154	LEE 105 - Orange
	155 - 159	LEE 021 - Gold Amber
	160 - 164	LEE 778 - Millennium Gold
	165 - 169	LEE 135 - Deep Golden Amber
	170 - 174	LEE 164 - Flame Red
	175 - 179	Open
		Color wheel rotation effect
	180 - 201	Clockwise, fast → slow
	202 - 207	Stop (this will stop wherever the color is at the time)
	208 - 229	Counter-clockwise, slow → fast
	230 - 234	Open
		Random color
	235 - 239	Slow
	240 - 244	Medium
	245 - 249	Fast
	250 - 255	Open
10	0 - 255	Beam red 0 → 100%
11	0 - 255	Beam green 0 → 100%
12	0 - 255	Beam blue 0 → 100%
13	0 - 255	Beam white 0 → 100%
14		Beam CTC (Color Temperature Control)
	0 - 19	CTC disabled
	20 - 255	CTC 10 000K → 2 500K

STANDARD

Channel	Channel Mode
1	Red
2	Green
3	Blue
4	White
5	Linear CTO
6	Macro Color
7	Strobe
8	Dimmer
9	Pan
10	Pan Fine
11	Tilt
12	Tilt Fine
13	Reset
14	Zoom
15	Wash Red
16	Wash Green
17	Wash Blue
18	Shape Selection
19	Shape Speed
20	Shape R
21	Shape G
22	Shape B
23	Shape W
24	Shape Dimmer
25	Background Dimmer
26	Shape Strobe
27	Background Strobe
28	Background Select

SHAPES

Channel	ChannelMode
1	Red
2	Green
3	Blue
4	White
5	Linear CTO
6	Macro Color
7	Strobe
8	Dimmer
9	Pan
10	Pan Fine
11	Tilt
12	Tilt Fine
13	Reset
14	zoom
15	Wash Red
16	Wash Green
17	Wash Blue

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EXTENDED

Channel	Channel Mode
1	Red
2	Green
3	Blue
4	White
5	Linear CTO
6	Macro Color
7	Strobe
8	Dimmer
9	Pan
10	Pan Fine
11	Tilt
12	Tilt Fine
13	Reset
14	Zoom
1S	Wash Red
16	Wash Green
17	Wash Blue
18	R LED1
19	G LED1
20	B LED1
...	R LED...
...	G LED...
...	B LED...
72	R LED19
73	G LED19
74	B LED19

EXTENDED RGBW

Channel	Channel Mode
1	Red
2	Green
3	Blue
4	White
5	Linear CTO
6	Macro Color
7	Strobe
8	Dimmer
9	Pan
10	Pan Fine
11	Tilt
12	Tilt Fine
13	Reset
14	Zoom
1S	Wash Red
16	Wash Green
17	Wash Blue
18	R LED1
19	G LED1
20	B LED1
21	W LED1
...	R LED...
...	G LED...
...	B LED...
...	W LED...
90	R LED19
91	G LED19
92	B LED19
93	W LED19

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FULL

Channel	Channel Mode
1	Red
2	Green
3	Blue
4	White
5	Linear CTO
6	Macro Color
7	Strobe
8	Dimmer
9	Pan
10	Pan Fine
11	Tilt
12	Tilt Fine
13	Reset
14	Zoom
15	Wash Red
16	Wash Green
17	Wash Blue
18	Shape Selection
19	Shape Speed
20	Shape R
21	Shape G
22	Shape B
23	Shape W
24	Shape Dimmer
25	Background Dimmer
26	Shape Strobe
27	Background Strobe
28	Background Select
29	R LEDl
30	G LEDl
31	B LEDl
...	R LED...
...	G LED...
...	B LED...
83	R LED19
84	G LED19
85	B LED19

14 Channel Mode

Channel	Channel Mode
1	Beam electronic shutter effect
2	Beam dimmer
3	Zoom
4	Pan
5	Pan fine
6	Tilt
7	Tilt fine
8	Reset
9	Beam color wheel effect
10	Beam red
11	Beam green
12	Beam blue
13	Beam white
14	Beam CTC (Color Temperature Control)

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Service and maintenance

Warning! Read "Safety Information" on page 5 before servicing the Gaea. Warning! Disconnect the fixture from AC mains power and allow to cool for at least 10 minutes before handling. Do not view the light output from less than 8.3 meters (27 ft. 3 inches) without shade 4-5 welding goggles. Be prepared for the fixture to light suddenly if connected to power.

Warning! Refer any service operation not described in this user manual to a qualified service technician.

Important! Excessive dust smoke fluid and particle buildup degrades performance, causes overheating and will damage the fixture. Damage caused by inadequate cleaning or maintenance is not covered by the product warranty. LEDs are subject to wear and tear over the life of the product resulting in gradual changes in color and overall brightness over many thousands of hours of use. The extent of wear and tear depends heavily on operating conditions and environment,so it is impossible to specify precisely whether and to what extent LED performance will be affected. However you may eventually need to ask Martin Professional to replace LEDs if their characteristics are affected by wear and tear after an extended period of use and if you require fixtures to perform within very precise optical and color parameters.
The manufacturer's LED lifetime data is based on performance under the manufacturer's test conditions. As with   all LEDs the gradual reduction in luminous output will be accelerated when LEDs are used in a fixture where conditions are much tougher than in manufacturer's testing. To maximize LED lifetimes keep the ambient temperature as low as possible and drive the LEDs no harder and for no longer than necessary.

Cleaning

Cleaning schedules for lighting fixtures vary greatly depending on the operating

environment. It is therefore impossible to specify precise cleaning intervals for the MAC Aura. Environmental factors that may result in a need for frequent cleaning include:

• Use of smoke or fog machines.

• High airflow rates (near air conditioning vents,for example).

• Presence of cigarette smoke.

• Airborne dust (from stage effects,building structures and fittings or the natural environment at outdoor events,for example).

If one or more of these factors is present,inspect fixtures within their first 100 hours of operation to see whether cleaning is necessary. Check again at frequent intervals.This procedure will allow you to assess cleaning requirements in your particular situation. If in doubt consult your dealer about a suitable maintenance schedule.

Use gentle pressure only when cleaning,and work in a clean well-lit area. Do not use any product that contains solvents or abrasives,as these can cause surface damage.

Warning! Disconnect from power and allow to cool before cleaning

To clean the fixture:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.

2. Vacuum or gently blow away dust and loose particles from the outside of the fixture and the air vents at the back and sides of the head and in the base with low-pressure compressed air.

3. Clean the LED lens array in the front of the head by wiping gently with a soft, clean lint-free cloth moistened with a weak detergent solution. Do not rub the surface hard: lift particles off with a soft repeated press. Dry with a soft, clean, lint-free cloth or low-pressure compressed air. Remove stuck particles with an unscented tissue or cotton swab moistened with glass cleaner or distilled water.

4. Check that the fixture is dry before reapplying power.

Specifications subject to change without notice.any help

needed please contact the supplier !