37x15W LED Wash Zoom Moving Light

User Manual

Professional Entertainment Technology

1. Safety Instructions

Please read carefully the instruction, which includes important information about the installation, usage and maintenance.

WARNING

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85℃. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- DO NOT open the unit within five minutes after switching off.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

If using a 230V 50Hz power supply, DO NOT connect in series more than 11 units; use another main supply for the next 11 fixtures.
If using a 120V 60Hz power supply, DO NOT connect in series more than 5 units; use another main supply for the next 5 fixtures.

Installation:

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

2. Technical Specifications

Led Source
- Light Source: 37x15W 4inl RGBW Original Orsam LED
- Zoom Range : 2.8°- 55 °
- Dimming : 0- 100° smooth dimming
- CCT : 2500-8000k (adjustable)
- Strobe : 0-20Hz
- Luminous : 8212lm / 10m 2.8°

Control
- DMX Channel :37CH1 /21CH2 /15CH3/12CH4 / 37CH5
- Control Mode : DMX512, Master-Slave , Sound Slave

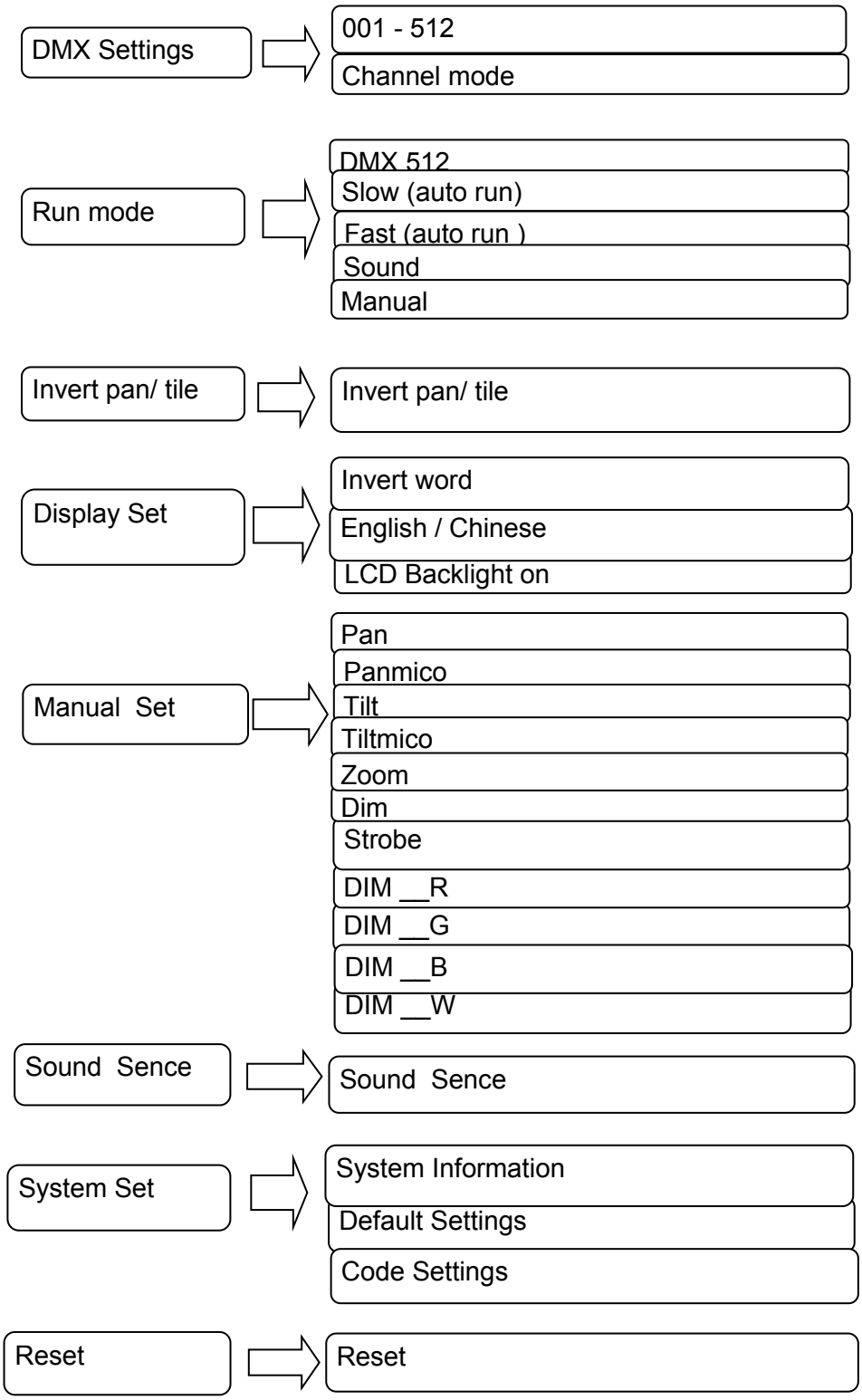
Pan/Tilt
- Pan/Tilt:540°/270°
- Pan/Tilt Resolution:16bit

Construction
- Data In/Out : 3-pin&5-pin XLP
- Power in/Out : Power Con in / out
- Protection Rating: IP20

POWER
- Power Voltage : AC100-240V,50/60Hz
- Power Consumption: 600W
- Working temperature: -20 ~ 40°

DIMENSIONS AND WEIGHT
- Dimensions : 470x400x270 mm
- Weight: 14.3kgs

3. MENU



4. Channels function list

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
1	1	1	1	1	0-255	**Pan (8 bit)** Pan movement by 450°	proportional
2	2	2	2	2	0-255	**Pan Fine (16 bit)** Fine control of pan movement	proportional
3	3	3	3	3	0-255	**Tilt (8bit)** Tilt movement by 300°	proportional
4	4	4	4	4	0-255	**Tilt fine (16 bit)** Fine control of tilt movement	proportional
5	5	5	5	5	0 1 - 255 1 - 255	**Pan/Tilt speed, Pan/Tilt time** Max. speed (tracking mode) ***P./T. speed-set Speed Mode in menu: P./T. Mode*** Speed from max. to min. (vector mode) ***P./T. time - set Time Mode in menu: Pan/Tilt Mode*** Time from 0.1 s to 25.5 s.	step proportional proportional
6	6	6	6	6	0 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 139 140 - 149 150 - 179 180 - 189 190 - 199 200 - 209 210 - 255	**Special functions** Reserved *To activate following functions , stop in DMX value for at least 3sec. and shutter must be closed at least 3sec. (Shutter channel 35/19/14 /9 must be at range of 0-31DMX). Corresponding menu items are temporily overrided.* Pan/Tilt speed mode Pan/Tilt time mode Blackout while pan/tilt moving Disabled blackout while pan/tilt moving Reserved *To activate following reset function, stop in DMX value for at least 3 sec.* Pan/Tilt reset Reserved Zoom reset Reserved Total reset Reserved	 step step step step step step step
-	7	7	7	-	0-255	**Red (8 bit) - all arrays** Red LEDs saturation control (0-100%)	proportional
-	8	-	-	-	0-255	**Red fine(16 bit) - all arrays** Fine red LEDs saturation control	proportional
-	9	8	8	-	0-255	**Green (8 bit) - all arrays** Green LEDs saturation control (0-100%)	proportional
-	10	-	-	-	0-255	**Green fine (16 bit) - all arrays** Fine green LEDs saturation control	proportional
-	11	9	9	-	0-255	**Blue (8 bit) - all arrays** Blue LEDs saturation control (0-100%)	proportional
-	12	-	-	-	0-255	**Blue fine (16 bit) - all arrays** Fine blue LEDs saturation control	proportional
-	13	10	10	-	0-255	**White (8 bit) - all arrays** White LEDs saturation control (0-100%)	proportional
-	14	-	-	-	0-255	**White fine (16 bit) - all arrays** Fine white LEDs saturation control	proportional
7	-	-	-	14	0-255	**Red (8 bit) - array 1** Red LEDs saturation control (0-100%)	proportional

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
8	-	-	-	15	0-255	**Red fine (16 bit) - array 1** Fine red LEDs saturation control	proportional
9	-	-	-	16	0-255	**Green (8 bit) - array 1** Green LEDs saturation control (0-100%)	proportional
10	-	-	-	17	0-255	**Green fine (16 bit) - array 1** Fine green LEDs saturation control	proportional
11	-	-	-	18	0-255	**Blue (8 bit) array 1** Blue LEDs saturation control (0-100%)	proportional
12	-	-	-	19	0-255	**Blue (16 bit) array 1** Fine blue LEDs saturation control)	proportional
13	-	-	-	20	0-255	**White (8 bit) - array 1** White LEDs saturation control (0-100%)	proportional
14	-	-	-	21	0-255	**White (16 bit) - array 1** Fine white LEDs saturation control	proportional
15	-	-	-	22	0-255	**Red (8bit) - array 2** Red LEDs saturation control (0-100%)	proportional
16	-	-	-	23	0-255	**Red fine (16 bit) - array 2** Fine red LEDs saturation control)	proportional
17	-	-	-	24	0-255	**Green (8 bit) - array 2** Green LEDs saturation control (0-100%)	proportional
18	-	-	-	24	0-255	**Green fine (16 bit) - array 2** Fine green LEDs saturation control	proportional
19	-	-	-	26	0-255	**Blue (8 bit) - array 2** Blue LEDs saturation control (0-100%)	proportional
20	-	-	-	27	0-255	**Blue fine (16 bit) - array 2** Fine blue LEDs saturation control	proportional
21	-	-	-	28	0-255	**White (8 bit) - array 2** White LEDs saturation control (0-100%)	proportional
22	-	-	-	29	0-255	**White (16 bit) - array 2** Fine white LEDs saturation control	proportional
23	-	-	-	30	0-255	**Red (8 bit) - array 3** Red LEDs saturation control (0-100%)	proportional
24	-	-	-	31	0-255	**Red fine (16 bit) - array 3** Fine red LEDs saturation control	proportional
25	-	-	-	32	0-255	**Green (8 bit) - array 3** Green LEDs saturation control (0-100%)	proportional
26	-	-	-	33	0-255	**Green fine (16 bit) - array 3** Fine green LEDs saturation control	proportional
27	-	-	-	34	0-255	**Blue (8 bit) array 3** Blue LEDs saturation control (0-100%)	proportional
28	-	-	-	35	0-255	**Blue fine (16 bit) array 3** Fine blue LEDs saturation control	proportional
29	-	-	-	36	0-255	**White (8 bit) array 3** White LEDs saturation control (0-100%)	proportional
30	-	-	-	37	0-255	**White fine (16 bit) array 3** Fine white LEDs saturation control (	proportional
31	15	11	11	12	0 1-255	**CTC** Full output power on all LEDs Colour temperature correction from cool to warm	step proportional

Mode/Channel					Value	Function	Type of control
1	2	3	4	5			
32	16	12	-	13		**Colour macros**	
					0	No function	
					1-3	White 2700 K (Δuv=0.005)	step
					4-6	White 3200 K (Δuv=0.003)	step
					7-9	White 4200 K (Δuv=0.008)	step
					10-12	White 5600 K (Δuv=0.003)	step
					13-15	White 8000 K (Δuv=0.001)	step
					16	Blue (Blue=full, Red+Green+White=0)	step
					17-55	Red=0, Green->up,Blue =full, White=0	proportional
					56	Light Blue (Red=0, Green=full, Blue =full, White=0)	step
					57 - 95	Red=0, Green=full, Blue->down, White=0	proportional
					96	Green (Red=0, Green=full, Blue =0, White=0)	step
					97 – 134	Red->up, Green=full, Blue=0, White=0	proportional
					135	Yellow (Red=full, Green=full, Blue=0, White=0)	step
					136 - 174	Red=full, Green->down, Blue=0, White=0	proportional
					175	Red(Red=full, Green=0, Blue=0, White=0)	step
					176 -214	Red=full, Green=0, Blue->up, White=0	proportional
					215	Magenta (Red=full, Green=0, Blue=full, White=0)	step
					216 - 254	Red -> down, Green=0, Blue=full, White=0	proportional
					255	Blue (Red=0, Green=0, Blue=full, White=0)	step
33	17	13	12	7	0 - 255	**Zoom (8 bit)** Zoom from min. to max. beam angle	proportional
34	18	-	-	8	0 - 255	**Zoom fine (16 bit)** Fine zooming from min. to max.	proportional
35	19	14	-	9		**Shutter/Strobe**	
					0-31	Shutter closed	step
					32-63	Shutter open	step
					64-95	Strobe-effect from slow to fast	proportional
					96-127	Shutter open	step
					128-143	Opening pulses in sequences from slow to fast	proportional
					144-159	Closing pulses in sequences from fast to slow	proportional
					160-191	Shutter open	step
					192-223	Random strobe-effects from slow to fast	proportional
					224-255	Shutter open	step
36	20	15	-	10	0-255	**Dimmer (8 bit)** Dimmer intensity from 0% to 100%	proportional
37	21	-	-	11	0-255	**Dimmer fine (16 bit)** Fine dimming	proportional

5. Trouble shooting

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

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

6. 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 surrounding 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.