IMRELAX 12x40W LED Wash Zoom Moving Head Light

1. Safety Instructions

WARNING

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

Ÿ 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.

Ÿ Unpack and check carefully there is no transportation damage before using the unit.

Ÿ Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

Ÿ It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

Ÿ The unit is for indoor use only. Use only in a dry location.

Ÿ 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.

Ÿ Disconnect main power before replacement or servicing.

Ÿ Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

Ÿ Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

Ÿ Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this.

Ÿ Unit surface temperature may reach up to 85℃. DO NOT touch the housing bare-handduring its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

Ÿ 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:

Ÿ To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

Ÿ DO NOT open the unit within five minutes after switching off.

Ÿ 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: 12x40W 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 : 18CH / 24CH / 68CH
    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

DMX Settings ⟹
| 001 - 512 |
| Channel mode |

Run mode ⟹
| DMX 512 |
| Slow (auto run) |
| Fast (auto run) |
| Sound |
| Manual |

Invert pan/ tile ⟹
| Invert pan/ tile |

Display Set ⟹
| Invert word |
| English / Chinese |
| LCD Backlight on |

Manual　Set ⟹
| Pan |
| Panmico |
| Tilt |
| Tiltmico |
| Zoom |
| Dim |
| Strobe |
| DIM __R |
| DIM __G |
| DIM __B |
| DIM __W |

Sound　Sence ⟹
| Sound　Sence |

System Set ⟹
| System Information |
| Default Settings |
| Code Settings |

Reset ⟹
| Reset |
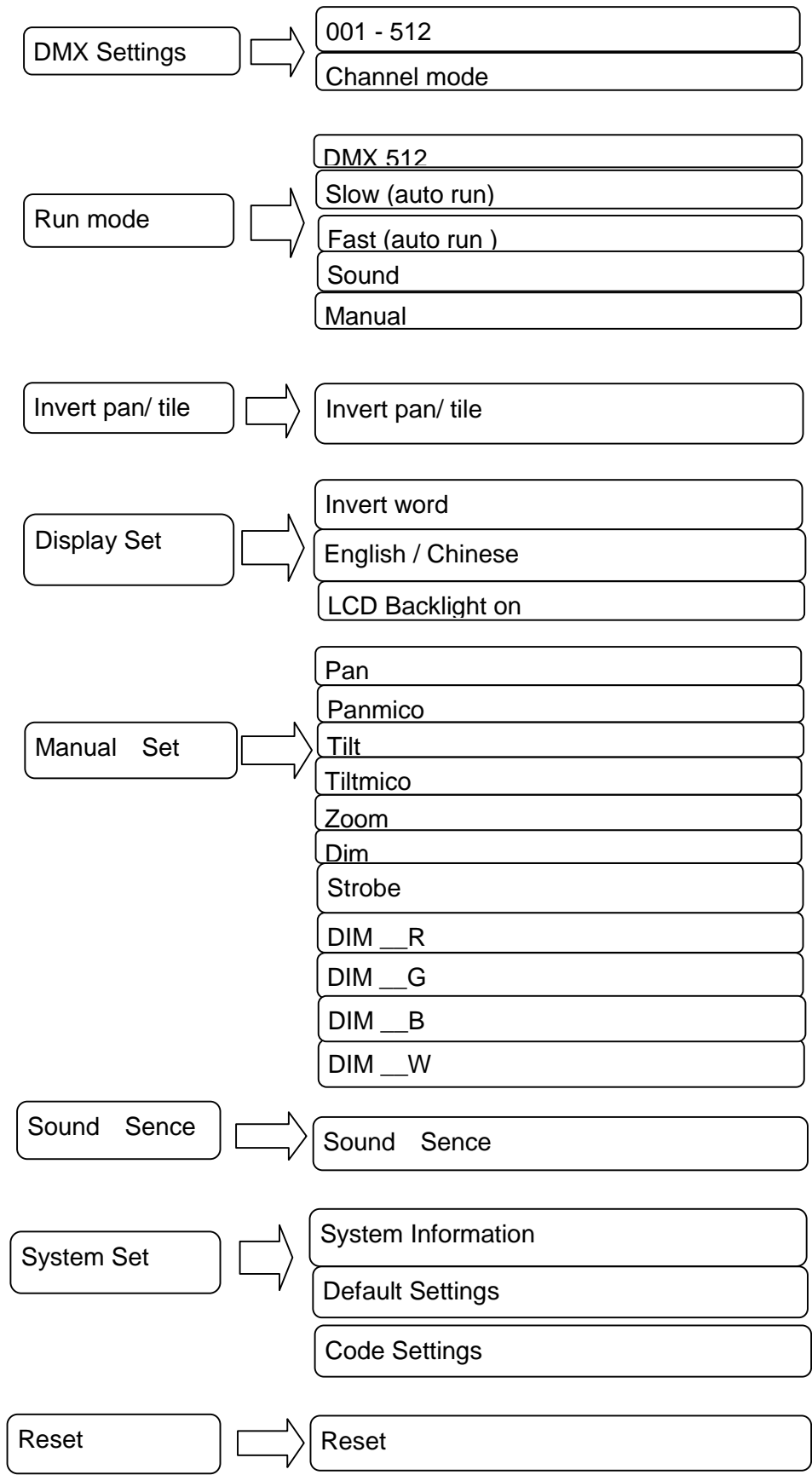
4. 68Channels function list

68CH	Function	DMX Value	Detail
CH 1	Pan	0-255	0-540°
CH 2	Pan Fine	0-255	16 bit
CH 3	Tilt	0-255	0-270°
CH 4	Tilt Fine	0-255	16 bit
CH 5	P/T Speed	0-255	Fast to slow
CH 6	Focus	0-255	Near to far
CH 7	Dimmer	0-255	Linear dimmer （dark to brightness）
CH 8	Strobe	0-9	No function
		10-154	Slow to fast　(1HZ-25HZ)
		155-204	Random
		205-255	Thunder
CH 9	Led1 red dimmer	0-255	Dark and bright
CH10	Led1 green dimmer	0-255	Dark and bright
CH11	Led1 blue dimmer	0-255	Dark and bright
CH12	Led1 white dimmer	0-255	Dark and bright
CH13	Led2 red dimmer	0-255	Dark and bright
CH14	Led2 green dimmer	0-255	Dark and bright
CH15	Led2 blue dimmer	0-255	Dark and bright
CH16	Led2 white dimmer	0-255	Dark and bright
CH17	Led3 red dimmer	0-255	Dark and bright
CH18	Led3 green dimmer	0-255	Dark and bright
CH19	Led3 blue dimmer	0-255	Dark and bright
CH20	Led3 white dimmer	0-255	Dark and bright
CH21	Led4 red dimmer	0-255	Dark and bright
CH22	Led4 green dimmer	0-255	Dark and bright
CH23	Led4 blue dimmer	0-255	Dark and bright
CH24	Led4 white dimmer	0-255	Dark and bright
CH25	Led5 red dimmer	0-255	Dark and bright
CH26	Led5 green dimmer	0-255	Dark and bright
CH27	Led5 blue dimmer	0-255	Dark and bright
CH28	Led5 white dimmer	0-255	Dark and bright
CH29	Led6 red dimmer	0-255	Dark and bright
CH30	Led6 green dimmer	0-255	Dark and bright
CH31	Led6 blue dimmer	0-255	Dark and bright
CH32	Led6 white dimmer	0-255	Dark and bright
CH33	Led7 red dimmer	0-255	Dark and bright
CH34	Led7 green dimmer	0-255	Dark and bright
CH35	Led7 blue dimmer	0-255	Dark and bright
CH36	Led7 white dimmer	0-255	Dark and bright
CH37	Led8 red dimmer	0-255	Dark and bright

CH38	Led8 green dimmer	0-255	Dark and bright
CH39	Led8 blue dimmer	0-255	Dark and bright
CH40	Led8 white dimmer	0-255	Dark and bright
CH41	Led9 red dimmer	0-255	Dark and bright
CH42	Led9 green dimmer	0-255	Dark and bright
CH43	Led9 blue dimmer	0-255	Dark and bright
CH44	Led9 white dimmer	0-255	Dark and bright
CH45	Led10 red dimmer	0-255	Dark and bright
CH46	Led10 green dimmer	0-255	Dark and bright
CH47	Led10 blue dimmer	0-255	Dark and bright
CH48	Led10 white dimmer	0-255	Dark and bright
CH49	Led11 red dimmer	0-255	Dark and bright
CH50	Led11 green dimmer	0-255	Dark and bright
CH51	Led11 blue dimmer	0-255	Dark and bright
CH52	Led11 white dimmer	0-255	Dark and bright
CH53	Led12 red dimmer	0-255	Dark and bright
CH54	Led12 green dimmer	0-255	Dark and bright
CH55	Led12 blue dimmer	0-255	Dark and bright
CH56	Led12 white dimmer	0-255	Dark and bright
CH57	COT (color temperature)	0-9	No
		10-255	10000K-2500K
CH58	Color effect	0-9	No
		10-19	Color effect 1
		20-29	Color effect 2
		30-39	Color effect 3
		40-49	Color effect 4
		50-59	Color effect 5
		60-69	Color effect 6
		70-79	Color effect 7
		80-89	Color effect 8
		90-99	Color effect 9
		100-109	Color effect 10
		110-119	Color effect 11
		120-129	Color effect 12
		130-139	Color effect 13
		140- 149	Color effect 14
		150-159	Color effect 15
		160-169	Color effect 16
		170-179	Color effect 17
		180-189	Color effect 18
		190-199	Color effect 19
		200-209	Color effect 20
		210-224	Jumping

		225-239	Pulse
		240-255	Gradual change
CH59	Pattern effect	0-9	No
		10-19	Pattern effect 1
		20-29	Pattern effect 2
		30-39	Pattern effect 3
		40-49	Pattern effect 4
		50-59	Pattern effect 5
		60-69	Pattern effect 6
		70-79	Pattern effect 7
		80-89	Pattern effect 8
		90-99	Pattern effect 9
		100-109	Pattern effect 10
		110-119	Pattern effect 11
		120-129	Pattern effect 12
		130-139	Pattern effect 13
		140-149	Pattern effect 14
		150-159	Pattern effect 15
		160-169	Pattern effect 16
		170-179	Pattern effect 17
		180-189	Pattern effect 18
		190-199	Pattern effect 19
		200-209	Pattern effect 20
		210-255	Pattern effect 21
CH60	Shape	0-9	No
		10-19	Shape 1
		20-29	Shape 2
		30-39	Shape 3
		40-49	Shape 4
		50-59	Shape 5
		60-69	Shape 6
		70-79	Shape 7
		80-89	Shape 8
		90-99	Shape 9
		100-109	Shape 10
		110-129	Shape 11
		130-139	Shape 12
		140-149	Shape 13
		150-159	Shape 14
		160-169	Shape 15
		170-179	Shape 16
		180-189	Shape 17
		190-199	Shape 18

		200-209	Shape 19
		210-219	Shape 20
		220-229	Shape 21
		230-239	Shape 22
		240-249	Shape 23
		250-255	Shape 24
CH61	Back red	0-255	Control it on CH59 and CH60
CH62	Back green	0-255	Control it on CH59 and CH60
CH63	Back blue	0-255	Control it on CH59 and CH60
CH64	Back white	0-255	Control it on CH59 and CH60
CH65	Direction	0-127	CW
		128-255	CCW
CH66	Speed	0-255	Fast to slow
CH67	Macro	0-9	No
		10-99	Auto run 1
		100-199	Auto run 2
		200-255	Sound control
CH68	Reset	0-239	No
		240-250	Reset (3s)
		251-255	No

24Channels function list

24CH	Function	DMX Value	Detail
CH 1	Pan	0-255	0-540°
CH 2	Pan Fine	0-255	16 bit
CH 3	Tilt	0-255	0-270°
CH 4	Tilt Fine	0-255	16 bit
CH 5	P/T Speed	0-255	Fast to slow
CH 6	Focus	0-255	Near to far
CH 7	Dimmer	0-255	Linear dimmer （dark to brightness）
CH 8	Strobe	0-9	No function
		10-154	Slow to fast (1HZ-25HZ)
		155-204	Random
		205-255	Thunder
CH 9	Led1-12 red dimmer	0-255	Dark and bright
CH10	Led1-12 green dimmer	0-255	Dark and bright
CH11	Led1-12 blue dimmer	0-255	Dark and bright
CH12	Led1-12 white dimmer	0-255	Dark and bright
CH 13	COT (color temperature)	0-9	No

		10-255	10000K-2500K
CH14	Color effect	0-9	No
		10-19	Color effect 1
		20-29	Color effect 2
		30-39	Color effect 3
		40-49	Color effect 4
		50-59	Color effect 5
		60-69	Color effect 6
		70-79	Color effect 7
		80-89	Color effect 8
		90-99	Color effect 9
		100-109	Color effect 10
		110-119	Color effect 11
		120-129	Color effect 12
		130-139	Color effect 13
		141- 149	Color effect 14
		150-159	Color effect 15
		160-169	Color effect 16
		170-179	Color effect 17
		180-189	Color effect 18
		190-199	Color effect 19
		200-209	Color effect 20
		210-224	Jumping
		225-239	Pulse
		240-255	Gradual change
CH15	Pattern effect	0-9	No
		10-19	Pattern effect 1
		20-29	Pattern effect 2
		30-39	Pattern effect 3
		40-49	Pattern effect 4
		50-59	Pattern effect 5
		60-69	Pattern effect 6
		70-79	Pattern effect 7
		80-89	Pattern effect 8
		90-99	Pattern effect 9
		100-109	Pattern effect 10
		110-119	Pattern effect 11
		120-129	Pattern effect 12
		130-139	Pattern effect 13
		140-149	Pattern effect 14
		150-159	Pattern effect 15
		160-169	Pattern effect 16
		170-179	Pattern effect 17

		180-189	Pattern effect 18
		190-199	Pattern effect 19
		200-209	Pattern effect 20
		210-255	Pattern effect 21
CH16	Shape	0-9	No
		10-19	Shape 1
		20-29	Shape 2
		30-39	Shape 3
		40-49	Shape 4
		50-59	Shape 5
		60-69	Shape 6
		70-79	Shape 7
		80-89	Shape 8
		90-99	Shape 9
		100-109	Shape 10
		110-129	Shape 11
		130-139	Shape 12
		140-149	Shape 13
		150-159	Shape 14
		160-169	Shape 15
		170-179	Shape 16
		180-189	Shape 17
		190-199	Shape 18
		200-209	Shape 19
		210-219	Shape 20
		220-229	Shape 21
		230-239	Shape 22
		240-249	Shape 23
		250-255	Shape 24
CH17	Back red	0-255	Control it on CH59 and CH60
CH18	Back green	0-255	Control it on CH59 and CH60
CH19	Back blue	0-255	Control it on CH59 and CH60
CH20	Back white	0-255	Control it on CH59 and CH60
CH21	Direction	0-127	CW
		128-255	CCW
CH22	Speed	0-255	Fast to slow
CH23	Macro	0-9	No
		10-99	Auto run 1
		100-199	Auto run 2
		200-255	Sound control
CH24	Reset	0-239	No
		240-250	Reset (3s)
		251-255	No

18Channels function list

18CH	Function	DMX Values	Details
CH 1	Pan	0-255	0-540°
CH 2	Pan Fine	0-255	16 bit
CH 3	Tilt	0-255	0-270°
CH 4	Tilt Fine	0-255	16 bit
CH 5	P/T Speed	0-255	Fast to slow
CH 6	Dimmer	0-255	Linear dimmer（dark to bright）
CH 7	Strobe	0-9	No function
		10-154	Slow to fast (1HZ-25HZ)
		155-204	Random
		205-255	Thunder
CH 8	Led1-12 red dimmer	0-255	Dark and bright
CH 9	Led1-12green dimmer	0-255	Dark and bright
CH10	Led1-12　blue dimmer	0-255	Dark and bright
CH11	Led1-12 white dimmer	0-255	Dark and bright
CH 12	Macro	0-255	No function
CH13	Shape	0	No
		1-6	Led 1
		7-13	Led 2
		14-20	Led 3
		21-27	Led 4
		28-34	Led 5
		35-41	Led 6
		42-48	Led 7
		49-55	Led 8
		56-62	Led　9
		63-69	Led 10
		70-76	Led 11
		77-83	Led 12
		84-90	Shape 1
		91-97	Shape 2
		98-104	Shape 3
		105-111	Shape 1
		112-118	Shape 2
		119-125	Shape 3
		126-132	Shape 1
		133-139	Shape　2
		140-146	Shape　3
		147-153	Pattern 1
		154-160	Pattern 2

		161-167	Pattern 3
		168-174	Pattern 4
		175-181	Pattern 5
		182-188	Pattern 6
		189-195	Pattern 7
		196-202	Pattern 8
		203-209	Pattern 9
		210-216	Pattern 10
		217-223	Rotation effect
		224-230	Colorful rotation effect 1
		231-237	Colorful rotation effect 2
		238-244	Colorful rotation effect 3
		245-251	Colorful rotation effect 4
		252-255	Colorful rotation effect 5
CH14	Speed	0-255	Fast to slow
CH15	Shape back	0-255	Shape back color selection
CH16	Back Dim	0-255	Dark to bright
CH17	Focus	0-255	Focus
CH18	Reset	0-239	No
		240-250	Reset (3s)
		251-255	No

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.

Ÿ Clean with soft cloth using normal glass cleaning fluid.

Ÿ Always dry the parts carefully.

Ÿ Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Thank you for choosing IMRELAX.

More info please visit: www.imrelax.com