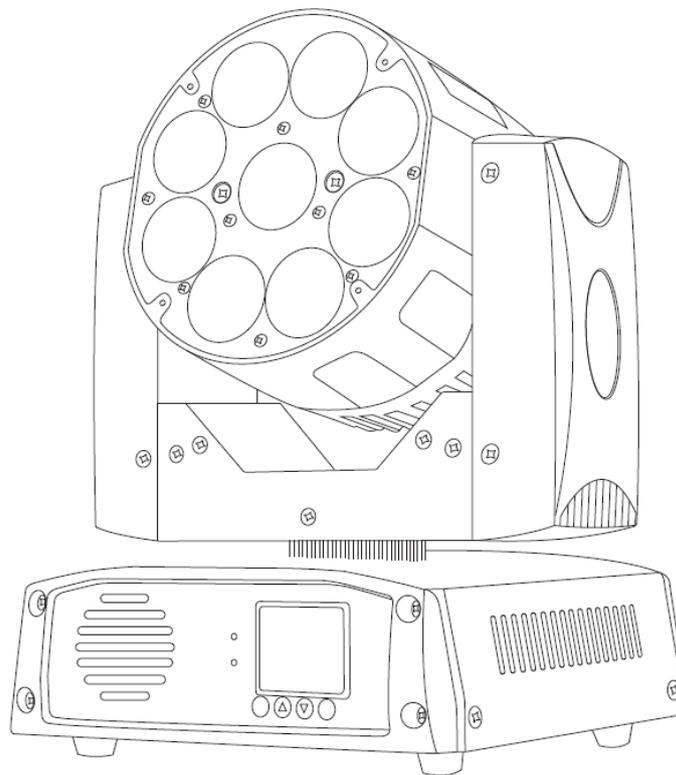


M WASH 920Z



User Manual

Ver1.0

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CAUTION !

Keep this device away from rain and moisture
Unplug mains lead before opening the housing

For your own safety, please read this user manual carefully before you initially start-up

Every person involved with installation, operation and maintenance of this fixture has to

- be qualified
- follow the instruction of this manual
- consider this manual to be part of the total product
- Keep this manual for the entire service life of the product
- pass this manual to every future owner or use of the product

INTRODUCTION

Thank you for choosing our fixture, if you follow up the instruction given in this manual we be sure that you will enjoy this product for a long period of time

SAFETY INSTRUCTION

CAUTION!

Be careful with your operations, With a dangerous voltage you can suffer a dangerous electric shock when touching the wires.

This device has left our premises in absolutely perfect condition .In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instruction and warning notes written in this user manual.

Important: Damages caused by the disregard of this user manual are not subject o warranty, the dealer will not accept liability for any resulting defects of problem. If the device had been exposed to drastic temperature fluctuation (e.g. after transportation),do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it had reached room temperature. Please make sure that there are no obvious transport damages, should you notice any damages on the AC connection cable or on the casing, do not take the device into operation and immediately consult your local dealer.

The device falls under protection-class. The power plug must only be plugged into a protection class I outlet. The voltage and frequency must exactly be the same as stated on the device. Wrong voltages or power outlets can lead to the destruction of the device and mortal electrical shock.Always plug in the

power plug last. The power plug must always be inserted without force .Make sure that the plug is tightly connected with the outlet.

Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution! Never touch them with wet hands .as this could lead to mortal electrical shock. Never modify, bend, strain mechanically, put pressure on, pull or heat up the power cord. Never operate next to sources of heat or cold. Disregard can lead to power cord damages, fire or mortal electrical shock. The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to mortal electrical shock. Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.If extension cords are used, make sure that the core diameter is sufficient for the required power consumption of the device. All warnings concerning the power cords are also valid for possible extension cords.

OPERATING DETERMINATIONS

This device is designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects. Do not shake the device. Avoid brute force when installing or operation the device. Never lift the fixture by holding it at the projector-head. As the mechanics may be damaged. When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cable lying around. Please make sure that the fixture can not be touched or bumped. Your endanger your own and the safety of others.

The housing must never touch surrounding surfaces or objects. Make sure that the area below the installation place is blocked when rigging, dragging or servicing the fixture. For overhead use (mounting height>100cm), always fix the fixture with an appropriate safety-rope. Fix the safety-rope at the correct fixation points only. The safety-rope must never be fixed at the transport handles. Only operate the fixture after having check that the housing is firmly closed and all screw are tightly fastened.

The maximum ambient temperature $T_a=45^{\circ}\text{C}$ must never be exceeded. Operate the device only after having become familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation. Please use the original packaging if the device is to be transported. Please consider that unauthorized modifications on the device are forbidden due to safety reasons! Never remove the serial barcode from the device as this would make the guarantee void. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

DESCRIPTION OF THE DEVICE

Features

- > Beam Angle 6-51 degree
- > Focus,adjust beam angle
- > 9pcs 20W RGBW LEDS
- > 13/19 channel DMX-512 .
- > Pan :540°/tilt:270°
- > Variable electronic strobe.
- > Variable electronic dimmer(0-100%).
- > LCD display menu with invert.
- > Reset to factory settings option.
- > Pan/tilt invert option.
- > Single point control the middle LED
- > Fan cooled.

INSTALLATION

Rigging

The installation of the projector has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

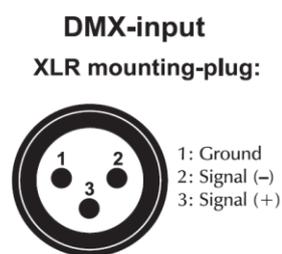
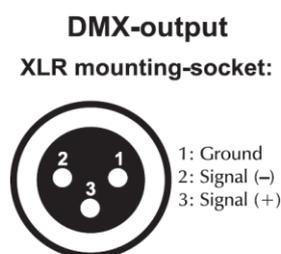
IMPORTANT!OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property. The projector had to be installed out of the reach of people

DANGER OF FIRE! When installing the device, make sure there is no highly-inflammable material(decoration articles, etc.)within a distance of min.0.5m.

DMX 512 connection/ connection between fixture

The wires must not come into contact with each other, otherwise the fixture will not work at all or properly. Please note the starting address depends upon which controller is being used. Only use a DMX cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture to another

Occupation of the XLR-connection:



Connection with the mains.

The occupation of the connection-cables is as follows:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

The earth has to be connected. The device must only be connected with an electric installation carried out in compliance with IEC standards.

OPERATION

After you connected the effect to the mains, The fixture starts running

Stand Alone operation

In the stand alone mode, the fixture can be use without controller

Master/slave-operation

The master/slave-operation enables that several devices can be synchronized and controlled by one master-device

DMX controlled operation

You can control the projectors individually via your DMX-controller

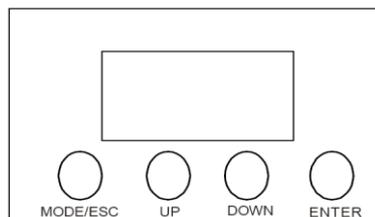
Addressing

The control board allows you to assign the DMX starting address,

Note;it's necessary to insert the XLR termination plug (with 120ohm) in the last device in the link in order to ensure proper transmission on the DMX data link.

CONTROL BOARD

The control board offer several features :you can simple set the starting address, run the pre-programmed program or make a reset



the main menu is accessed by pressing the Mode/Esc-button, Browse through the submenu by pressing Up or Down .Press the Enter-button in order to select the desired menu. You can change the selection by pressing Up or Down, Confirm every selection by pressing the Enter-button. You can leave every mode by pressing the Mode/Esc-button .The functions provided are described in the following setting.

MENU MAP

The device has two operation modes, It can be operated in Stand Alone or in DMX controlled

DMX Functions	DMX Address	0-512
	Channel Mode	13/19CH
	No DMX signal	Auto/Keep/Clear
Show Movement	Run Mode	DMX/Auto/Sound
	Sound Active	ON/OFF
	Sound Sense	0-100
Fixture Setting	Pan Inverse	No/Yes
	Tilt Inverse	No/Yes
Display Setting	Disply Inverse	No/Yes
	Backlight Auto	No/Yes
	Warning Tips	No/Yes
	Language	Chinese/English
Fixture Test	Auto Test	
	Manual Test	Pan
		Pan Fine
		Tilt
		Tilt Fine
		Pan-Tilt Speed
		Focus
		Dimmer
Fixture Information	Use Hours	
	Firmware Version	
Special Functions	Restore Factory Setting	No/Yes
	System Reset	No/Yes
	Upload Data	No/Yes

Note: output default setting address code is A001, pan is positive circumrotate、tilt is positive circumrotate、LED positively reveal.

DMX-protocol

13 DMX channel mode

13Channel	Value	Function
1		Pan Movement
	0-255	Pan Movement
2		Tilt Movement
	0-255	Tilt Movement
3		PAN-TILT speed
	0-255	Decreasing speed

		Focus
4	0-255	Beam Angle adjust from big to small
		Dimmer
5	0-255	0-100% liner dimmer
		Strobe
6	0-5	No Function
	6-255	Strobe from slow to fast
		Red
7	0-255	The Middle LED 0-100% Red
		Green
8	0-255	The Middle LED 0-100% Green
		Blue
9	0-255	The Middle LED 0-100% Blue
		White
10	0-255	The Middle LED 0-100% White
		Built-in Program
11	0-7	No Function
	8-19	Built-in Program 1
	20-39	Built-in Program 2
	40-49	Built-in Program 3
	50-79	Built-in Program 4
	80-119	Built-in Program 5
	120-139	Built-in Program 6
	140-159	Built-in Program 7
	160-179	Built-in Program 8
	180-199	Built-in Program 9
	200-219	Built-in Program 10
	220-255	All Built-in Program effect
		Built-in Program Speed
12	0-255	Built-in Program Speed from slow to fast
		Macro Function
13	0-199	No Function
	200-209	Reset
	210-255	No Function

19 DMX channel mode

19Channel	Value	Function
		Pan Movement
1	0-255	Pan Movement
		Pan Fine
2	0-255	Pan Fine
		Tilt Movement
3	0-255	Tilt Movement

		Tilt Fine
4	0-255	Tilt Fine
		PAN/TILT speed
5	0-255	Decreasing speed
		Focus
6	0-255	Beam Angle adjust from big to small
		Dimmer
7	0-255	0-100% liner dimmer
		Strobe
8	0-5	No Function
	6-255	Strobe from slow to fast
		Red 1
9	0-255	The Middle LED 0-100% Red
		Green 1
10	0-255	The Middle LED 0-100% Green
		Blue 1
11	0-255	The Middle LED 0-100% Blue
		White 1
12	0-255	The Middle LED 0-100% White
		Red 2
13	0-255	Around a circle of LEDs 0-100% Red
		Green 2
14	0-255	Around a circle of LEDs 0-100% Green
		Blue 2
15	0-255	Around a circle of LEDs 0-100% Blue
		White 2
16	0-255	Around a circle of LEDs 0-100% White
		Built-in Program
17	0-7	No Function
	8-19	Built-in Program 1
	20-39	Built-in Program 2
	40-49	Built-in Program 3
	50-79	Built-in Program 4
	80-119	Built-in Program 5
	120-139	Built-in Program 6
	140-159	Built-in Program 7
	160-179	Built-in Program 8
	180-199	Built-in Program 9
	200-219	Built-in Program 10
220-255	All Built-in Program effect	
		Built-in Program Speed
18	0-255	Built-in Program Speed from slow to fast
		Macro Function
19	0-199	No Function

	200-209	Reset
	210-255	No Function

TECHNICAL SPECIFICATIONS

Model	M WASH 920Z
Voltage	110V- 250V / 50-60Hz
Power consumption:	180W
LED	9pcs 20w RGBW LEDs
Net Weight	5.1Kgs
Dimensions	23x 21 x 30 cm