

# INVOLIGHT

## Bedienungsanleitung

## User manual

# LED MH368ZW



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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.

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.

## **DESCRIPTION OF THE DEVICE**

## Features

- > 14 channel DMX-512 .
- > Pan :630° /tilt:270° .
- > 36pcs 8W RGBW QUAD LED
- > Zoom angle from 18 degree to 55 degree
- > Variable electronic strobe.
- > Variable electronic dimmer(0-100%).
- > LED display menu with invert.
- > Reset to factory settings option.
- > Pan/tilt invert option.
- > 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.

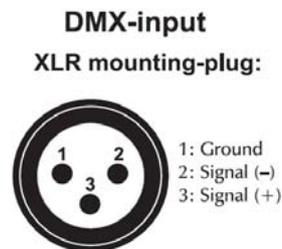
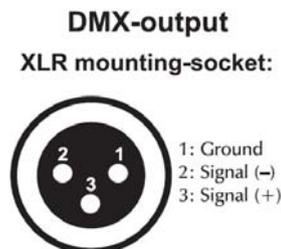
**IMPORTANT!OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE**, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead 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

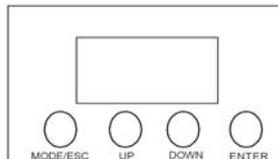
### Addressing

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



he 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

|                  |  |
|------------------|--|
| <b>DMX512</b>    | <b>DMX address</b> set from 001-512  |
| <b>RUN MODE</b>  | <b>DMX mode</b> :14 channel<br><b>AUTO mode:</b> 8 different mode from Auto 1 to Auto 8<br><b>SOUND mode:</b> Sound control  |
| <b>TEST MODE</b> | <b>PAN:</b> Pan movement 0-255<br><b>TILT:</b> Tilt movement 0-255<br><b>FOCUS:</b> Zoom movment 0-255<br><b>RED:</b> Red dimming 0-255(default 30)<br><b>GREEN:</b> Green dimming 0-255(default 30)<br><b>BLUE:</b> Blue dimming 0-255 (default 30) |

|                 |  |
|-----------------|--|
|                 | <b>WHITE:</b> White dimming 0-255 (default 30)   |
| <b>LANGUAGE</b> | ENGLISH/CHINESE  |
| <b>SET UP</b>   | <b>ID CODE:</b> select ID code<br><b>PAN REVERSE:</b> ON/OFF<br><b>TILT REVERSE:</b> ON/OFF<br><b>FADER DELAY:</b> ON/OFF<br><b>SIGNAL LINK:</b> ON/OFF<br><b>CODE WHEEL:</b> ON/OFF<br><b>TEMPSWITCH SET:</b> ON/OFF<br><b>TEMPERATURE SET:</b> 70degree<br><b>SCREEN SAVER:</b> MODE1(Show dmx address after 10 seconds)<br>MODE2(Screen off after 10 seconds)<br>OFF()<br><b>DISPLAY REVERSE:</b> ON/OFF<br><b>FACTORY SET:</b> ON/OFF<br><b>RESET:</b> ON/OFF<br><b>TOUCHCORRECT:</b> ON/OFF<br><b>PANOFF SET:</b> ON/OFF<br><b>TILT OFF SET:</b> ON/OFF |
| <b>SYSINFO</b>  | <b>ON TIME:</b> current on time<br><b>RUN TIME:</b> total run time<br><b>SOFTVER:</b> software version<br><b>RUNNING MODE:</b> current run mode<br><b>DMX ADDRESS:</b> dmx address<br><b>TEMPERATURE:</b> current temperature  |

## DMX-protocol

### 14 DMX channel mode

| Channel | Value | Function   |
|---------|-------|--|
| 1       | 0-255 | <b>Pan</b><br>Pan movement 0~540                     |
| 2       | 0-255 | <b>Tilt</b><br>Tilt movement 0~270                   |
| 3       | 0-255 | <b>Pan Tilt speed</b><br>Pan & Tilt speed adjustment |
| 4       | 0-255 | <b>Dimmer</b><br>0~100% dimmer                       |
| 5       | 0-255 | <b>Red</b><br>0-100% Red                             |
| 6       | 0-255 | <b>Green</b><br>0-100% Green                         |
| 7       | 0-255 | <b>Blue</b><br>0-100% Blue                           |
| 8       |       | <b>White</b>   |

|    |  |   |
|----|--|---|
|    | 0-255  | 0-100% White  |
| 9  | 0-255  | <b>Zoom</b><br>From 18 degree to 55 degree zoom   |
| 10 | 0<br>1-255   | <b>Strobe</b><br>No function<br>Strobe with increasing speed  |
| 11 | 0<br>1-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-120<br>121-140<br>141-160<br>161-170<br>171-200<br>201-205<br>206-210<br>211-215<br>216-220<br>221-215<br>226-230<br>231-235<br>236-240<br>241-245<br>246-250<br>251-255 | <b>Build in Color</b><br>Running this channel need channel 14 at 91-210<br>No function<br>R255 G ↑ B0 W0<br>R ↓ G255 B0 W0<br>R0 G255 B ↑ W0<br>R0 G ↓ B255 W0<br>R ↑ G0 B255 W0<br>R255 G0 B ↓ W0<br>R255 G ↑ B ↑ W0<br>R ↓ G ↓ B255 W0<br>R255 G255 B255 W255<br>R0 G0 B0 W0<br>R242 G204 B5 W227<br>R242 G215 B5 W227<br>R255 G255 B50 W255<br>R255 G255 B90 W255<br>R255 G255 B118 W255<br>R255 G255 B132 W255<br>R255 G255 B151 W255<br>R255 G255 B171 W255<br>R255 G255 B185 W255<br>R255 G255 B197 W255<br>R255 G255 B234 W255 |
| 12 | 0<br>1-25<br>26-50<br>51-90<br>91-130<br>131-170<br>171-210<br>211-250<br>251-255  | <b>Built in effect</b><br>Switch off ID effect<br>Fade delay open<br>Fade delay close<br>Select built color on<br>Color change in pulse<br>Color change<br>Color change in fade<br>Built in mode 1<br>Sound mode  |
| 13 | 0-255  | <b>Pan Fine</b><br>Pan fine movement 0~540  |
| 14 | 0-255  | <b>Tilt Fine</b><br>Pan fine movement 0~540   |

## TECHNICAL SPECIFICATIONS

|                    |                            |
|--------------------|----------------------------|
| Model              | LED MH368ZW                |
| Voltage            | 110V- 250V / 50-60Hz       |
| Power consumption: | 380W                       |
| LED                | 36x8pcs RGBW QUAD          |
| Gross Weight       | 9.5Kgs                     |
| Dimensions         | 420(H) x 300(W) x400(L) mm |



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