

# INVOLIGHT

## Bedienungsanleitung

## User manual

# LED MH1210B



[www.destilan-deutschland.de](http://www.destilan-deutschland.de)



# Table of contents

<b>INTRODUCTION .....</b>	<b>2</b>
<b>SAFETY INSTRUCTIONS.....</b>	<b>2</b>
<b>OPERATING DETERMINATIONS.....</b>	<b>3</b>
<b>DESCRIPTION OF THE DEVICE.....</b>	<b>4</b>
<b>INSTALLATION.....</b>	<b>5</b>
<b>OPERATION.....</b>	<b>6</b>
Stand alone operation.....	6
Master slave operation.....	6
DMX controlled operation.....	6
Addressing.....	6
Control board.....	6
DMX protocol.....	7
<b>TECHNICAL SPECIFICATIONS.....</b>	<b>7</b>

### **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 user of the product

## **INTRODUCTION**

Thank you for choosing our fixture, if you follow up the instruction given in this manual we are 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 to warranty, the dealer will not accept liability for any resulting defects or problems. If the device had been exposed to drastic temperature fluctuations (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 has 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.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord. Otherwise, the cable or plug can be damaged leading to mortal electrical shock. If the power plug or the power switch is not accessible, the device must be disconnected via the mains. If the power plug or the device is dusty, the device must be taken out of operation, disconnected and then be cleaned with a dry cloth, Dust can reduce the insulation which may lead to mortal electrical shock. More severe dirt in and at the device should only be removed by a specialist. There must never enter any liquid into power outlets, extension cords or any holes in the housing of the device. If you suppose that also a minimal amount of liquid may have exerted the device it must immediately be disconnected. This is also valid, if the device was exposed to high humidity. Also if the device is still running, the device must be checked by a specialist if

the liquid has reduced any insulation. Reduced insulation can cause mortal electrical shock. There must never be any objects entering into the device. This is especially valid for metal parts. If any metal parts like staples or coarse metal chips enter into the device, the device must be taken out of operation and disconnected immediately. Malfunction or short-circuits caused by metal parts may cause mortal injuries. Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meant for epileptics) Keep away children and amateurs. Never leave this device running unattended.

## **DESCRIPTION OF THE DEVICE**

### **Features**

- > 12pcs 10w CREE Quadcolor LEDs with RGBW colors
- > Compact lightweight Narrow beam angle
- > Positioning within 630° PAN and 200° TILT
- > Stepless RGBW color changing
- > Different dimmer speeds (step response) adjustable
- > Masterdimmer
- > 8 internal programs can be called up via Control board
- > Color-macro-function for an easy selection of possible color-combinations
- > Strobe effect with 1-18 flashes per second
- > Random strobe effect
- > Exact positioning via 16 bit PAN/TILT movement resolution
- > Automatic position correction
- > DMX-controlled operation or stand-alone operation with Master/Slave function
- > Sound-control via built-in microphone
- > Control board with graphic LCD display for adjusting the DMX-starting address, PAN/TILT reverse, program, reset, operating hours
- > Switch-mode power supply
- > Automatic power supply adaption between 100 and 240 Volts without power selector
- > DMX control via every standard DMX controller

## **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

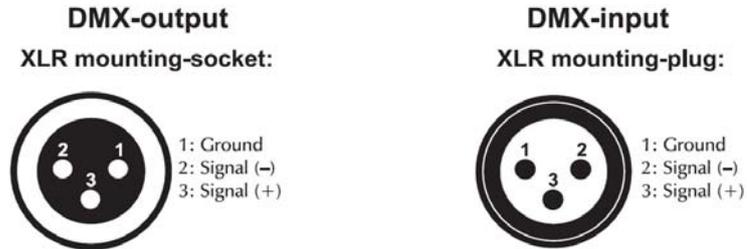
**DANGER OF FIRE!** When installing the device, make sure there is no highly-inflammable material(decoration articles, etc.)within a distance of min.0.5m.

### **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

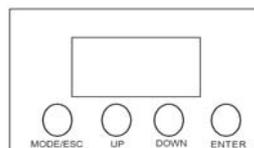
**Addressing**

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



3	0-255	<b>Pan/Tilt speed</b> Pan/ Tilt speed
4	0-255	<b>Dimmer</b> 0-100% dimmer
5	0-255	<b>Red</b> 0-100% Red
6	0-255	<b>Green</b> 0-100% Green
7	0-255	<b>Blue</b> 0-100% Blue
8	0-255	<b>White</b> 0-100% White
9	0-255	<b>Strobe</b> Strobe from fast to slowly
10	0 1-20 21-40 41-60 61-80 81-100 101-120 121-140 141-160 141-170 171-200 201-205 206-210 211-215 216-220 221-225 226-230 231-235 236-240 241-245 246-250 251-255	<b>Color change</b> No function R255 G ↑ B0 W0 R ↓ G255 B0 W0 R0 G255 B ↑ W0 R0 G ↓ B255 W0 R ↑ G0 B255 W0 R255 G0 B ↓ W0 R255 G ↑ B ↑ W0 R ↓ G ↓ B255 W0 R255 G255 B255 W255 R0 G0 B0 W0 R242 G204 B5 W227 R242 G215 B5 W227 R255 G255 B50 W255 R255 G255 B90 W255 R255 G255 B118 W255 R255 G255 B132 W255 R255 G255 B151 W255 R255 G255 B171 W255 R255 G255 B185 W255 R255 G255 B197 W255 R255 G255 B234 W255
11	0 1-25 26-50 51-130 131-170 171-210 211-250	<b>Built in Program</b> No function Switch on control relay Switch off control relay Color change in pulse Color change in random Color change in fade Built in mode 1

	251-255	Sound control
12	0-255	<b>Pan Fine</b> Pan fine
13	0-255	<b>Tilt Fine</b> Tilt fine

#### TECHNICAL SPECIFICATIONS

Model	LED MH1210B
Voltage	110V- 250V / 50-60Hz
Power consumption:	150W
LED	12pcs 10w CREE RGBW high power leds
Gross Weight	6.3Kgs
Dimensions	360(H) x 310(W) x 205(L) mm



# INVOLIGHT

[www.destilan-deutschland.de](http://www.destilan-deutschland.de)