

# INVOLIGHT

Bedienungsanleitung

User manual

## LED MH77S



---

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



## Table of contents

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

### **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.

## **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.

## DESCRIPTION OF THE DEVICE

### Features

- > High power 75w white led
- > 50000 hours lifetime and lower power consumption
- > 15 or 19 DMX channel in optional
- > 540 degree PAN and 280 degree tilt movement
- > 1 Color wheel with 8 diachronic colors plus open,split colors,rainbow effect
- > 1 Rotated gobo wheel with 7 rotated gobos plus open,gobo shaking
- > Rotated 3 facet prism with speed adjustable and variable direction
- > 0~100% linear dimmer and 1-20 times/sec high speed electronic strobe
- > DMX512, master-slave and sound activated controllable and auto with built-in programs

## 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:

**DMX-output**  
XLR mounting-socket:



**DMX-input**  
XLR mounting-plug:



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

<b>Run Mode</b>	DMX Auto 1 /Auto 2 Auto 3 /Auto 4 XY effect 1/ XY effect 2 / XY effect 3 /XY effect 4 Random effect /Sound
<b>DMX address</b>	Setting DMX address from 001-512
<b>Channel mode</b>	Select 15 or 19 DMX channel
<b>X reverse</b>	ON/OFF
<b>Y reverse</b>	ON/OFF
<b>XY exchange</b>	ON/OFF
<b>XY encoder</b>	ON/OFF
<b>Swap Dimmer-Delay</b>	ON/OFF
<b>No DMX signal</b>	CLEAR/KEEP
<b>Display Power Save</b>	ON/OFF
<b>Load Default</b>	OK/CANCEL

## DMX-protocol

### 15/19 DMX channel mode

channel	value	function
1	0-255	<b>Pan movement</b> Pan movement
2	0-255	<b>Pan Fine</b> Pan fine movement
3	0-255	<b>Tilt movement</b> Tilt movement
4	0-255	<b>Tilt Fine</b> Tilt fine movement
5	0-255	<b>Pan Tilt speed</b> Pan/Tilt movement with decreasing speed
6	0-3 4-251 252-255	<b>Shutter/Strobe</b> Shutter close Strobe with increasing speed Shutter open
7	0-255	<b>Dimmer</b> 0~100% linear dimmer
8	0-2 3-8 9-12 13-18 19-22 23-28 29-32 33-38 39-42 43-48 49-52 53-58 59-62 63-68 69-72 73-78 79-82 83-88 89-92 93-255	<b>Color wheel</b> White White+Red Red Red+Orange Orange Orange+Green Green Green+Light blue Light Blue Light Blue+Purple Purple Purple+Yellow Yellow Yellow+Blue Blue Blue+Pink Pink Pink+White White Rainbow effect with increasing speed
9	0-4	<b>Gobo Wheel</b> Open/White

	5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-129 130-134 135-220 221-225 226-230 231-235 236-240 241-245 246-250 251-255	Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Anti-clockwise gobo change with decreasing speed White Clockwise gobo change with increasing speed Gobo 1 shaking Gobo 2 shaking Gobo 3 shaking Gobo 4 shaking Gobo 5 shaking Gobo 6 shaking Gobo 7 shaking
10	0-63 64-127 128-191 192-255	<b>Gobo Rotation</b> Gobo angle adjustment with slowdown speed Anti-clockwise gobo rotation with decreasing speed Clockwise gobo rotation with increasing speed Rotated gobo shake with double direction in increasing speed
11	0-255	<b>Focus</b> 0~100% from far to near adjustment
12	0-127 128-255	<b>Prism</b> No function Prism effect
13	0-63 64-127 128-191 192-255	<b>Rotated prism</b> Prism angle adjustment slowdown speed Rotated prism shake with double direction in decreasing speed Rotated prism with decreasing speed in anti-clockwise Rotated prism with increasing speed in clockwise
14	0-5 6-10 11-255	<b>Macro function</b> Fade delay in dimmer off Fade delay in dimmer on Built-in Program
15	0-25 26-45 46-103 104-119 120-190 191-205 206-255	<b>Rest</b> No function Reset for Gobo/color/prism/rotated gobo/rotated prism/focus No function Reset for XY No function All rest No function

16	0-4	<b>Color wheel effect</b> White
	5-9	White+Red
	10-14	Red
	15-19	Red+Orange
	20-24	Orange
	25-29	Orange+Green
	30-34	Green
	35-39	Green+light Blue
	40-44	Light Blue
	45-49	Light Blue+Purple
	50-54	Purple
	55-59	Purple+Yellow
	60-64	Yellow
	65-69	Yellow+Blue
	70-74	Blue
	75-79	Blue+Pink
	80-84	Pink
	85-89	Pink+White
	90-94	White
	95-114	Red
115-134	Orange	
135-154	Green	
155-174	Light Blue	
175-194	Purple	
195-214	Yellow	
215-234	Blue	
235-254	Pink	
255	White	
17	0-255	<b>Color wheel Speed</b> Color wheel in decreasing speed
18	0-255	<b>Prism Speed</b> Prism in decreasing speed
19	0-255	<b>Gobo wheel Speed</b> Gobo wheel in decreasing speed

#### TECHNICAL SPECIFICATIONS

Model	LED MH77S
Voltage	110V- 250V / 50-60Hz
Power consumption:	120W
LED	75w high power white led
Net Weight / Gross Weight	10.20g / 11.5Kgs
Fixture dimensions	330x320x455mm





4052809267142



**INVOLIGHT**

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