



# Fog machine H-1 Moving Head

**Users Manual** 



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## 1. Safety instructions



- This device is suitable for indoor use (not outdoors) only.
- Unauthorized modifications will invalidate the warranty.
- Repairs are to carry out by skilled workers only.
- Use only fuses of the same type and original parts as spare parts.
- To avoid fire and electric shocks protect the unit from rain and humidity.

## 1.1. For safe and efficient operation

#### Be careful with heat and extreme temperatures!

Do not place the device in a location where it is exposed to extreme temperatures.

Operate the device only in an ambient temperature between 0°C (32°F) - 40°C (104°F). Do not expose the device to direct sunlight or heat sources.

#### Keep away from humidity, water and dust!

Avoid placing the device in a location with high humidity or excessive dust. Place no liquids on or near the system.

#### Place the device on a firm ground!

To avoid vibrations always place the device on a firm ground.

#### Do not use chemicals for cleaning!

Use a clean and dry cleaning rag to remove dust. Metal parts can be cleaned with a damped cleaning rag. Before cleaning always unplug the device from the power supply.

#### If the device is not working properly!

If problems occur unplug the device from the power supply. The user should not try to service the device independently. All repairs and service must be performed by a qualified technician.

#### Take proper care with the power cord!

Never pull the power cord to disconnect the device from the power supply, but remove the plug with plug housing in the hand. If you do not use the device for an extended period, unplug the device from the power supply.

#### ATTENTION!

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any consequent secondary failures. Only skilled workers are allowed to carry out the electrical connections. All electrical and mechanical connections have to be carried out according to the European safety standards.



## 2. Intended use of the device

This device was developed for professional use on stages, in discos, theatres etc. The device is only approved for a connection up to 230 V 50/60 Hz alternating current and only for indoor use.

Regular breaks during operation increase the lifetime of your device.

Avoid convulsions or any form of forceful impact during the installation or the start up of the device.

Take care that no cables are lying around. You would endanger your own safety and also the safety of a third party.

It is not allowed to operate or store the device in an environment in which spray water or rain is expected. Humidity or very high atmospheric humidity could reduce the isolation of the device and could cause deathly electric shocks.

If using fog machine you have to ensure that the fog saturation of the room must allow a good visibility of at least 10m.

Operate the device not during thunderstorms. Surge voltages could destroy the device. Unplug the power supply during thunderstorms.

Surrounding objects or surfaces should not be in contact with the device.

Make sure that during the installation and removal of the device the area below the place of installation is basically cordoned off. This also applies to implementation of service.

Make familiar yourself with the functions of the device before start-up. People without the experience should not handle with the device. The most cause of functional disorder is inappropriate handling.

Keep the device away from children and never operate it unattended.

Never aim the nozzle on people a keep a distance from 50 cm to the nozzle. ATTENTION. The ejected fog is very hot!

Keep a minimum distance of 50 cm to other objects.

Use only the recommended, high quality water-based fluid from your dealer. Other fluids may cause damages. Do not use flammable additives, such as oil, gas, perfumes, etc. in your fluid.

Never aim the nozzle on open fire or flammable objects.

Make sure to top off the fluid in time. If the machine operated without fluid it can cause damages to the pump or the heating block. Before top off the fluid please unplug the device from the power supply.

Never drink the fluid. I fit does happen, please contact a doctor. If the fluid had contact with the eyes or mucous membranes, rinse immediately with water bodies.

Operate the unit only in a horizontal position.



Never use solvents or aggressive detergents for cleaning. Use instead of this a damped cleaning rag.

To prevent damages during transport use for transport the original packing or provided accessories.

## For reasons of safety unauthorized changes are forbidden!

A usage of the device which differs from usages which are described in this manual can cause damages of the device. In this case the warranty expires. Additional you should notice that every different usage is related with dangers and can cause e.g. an electrical short, fire, electric shock or crash.

#### 2.1. Overhead installation



#### Danger of life!

You have to observe the regulations of BGV C1 (formerly VBG 70) and EN60598-2-17 Installations are to carry out by skilled personnel only.

The suspension devices have to be build and measured so they can withstand for an hour the tenfold of the payload without suffering a permanent detrimental deformation.

Basically installation has to be made by using a second separate suspension. This can be e.g. a suitable net. The second suspension must be designed and attached so no part of the installation can fall down in case of failure.

During construction, reconstruction and deconstruction unnecessary stay in the range of moving areas, on lightning bridges, under elevated work stations or any other danger zones is forbidden.

The operator is obliged to following safety-related and mechanical facilities:

- Before the first start-up or after critical changes before restarting it has to be checked by an expert.
- Review in the frame of the inspection test at least all four years by an expert.
- Review by a qualified person at least once a year.

#### How to carry out the overhead installation:

Ideally the device should be installed outside lounge areas of people.

**IMPORTANT!** Overhead installation requires a high level of experience. This includes knowledge of calculating the payload, used installation material and safety inspections of the used material and the projector whereas the required experience is not limited to this. Do not try to carry out installation yourself under any circumstances if you are not qualified. Contact a professional installer. An inappropriate installation can lead to injuries and/or damaged properties.



It is not allowed to install the device in the grip area of people.

If the device may hang from the ceiling or from high beams, the use of truss systems is mandatory. The device may not be installed so it can swing freely in the room.

Please note: Crashing down items can cause serious injuries! Do not install the projector, if you doubt the safety of a possible installation form!

Before installation make sure that the mounting surface has the ability to carry the tenfold point load of the own weight of the device.

Mount the device with the mounting-bracket to your trussing system using an appropriate clamp.

During overhead installation the device must be always secured by a safety rope which is designed to hold the twelvefold weight of device. Only safety ropes with quick-release safety fastener elements may be used. Hang up the safety rope in the hole of the mounting bracket. Direct the rope over the truss or an appropriate fastening point. Hang up the end in the fastening element and tie up the locking nut. A safety rope once exposed to failing load or damaged may not be used furthermore.

#### The maximum drop exceed must not exceed 20cm.

A safety rope once exposed to failing load or damaged may not be used furthermore. Adjust the desired inclination angle via the mounting bracket and tighten the screw.

#### 2.2. Connections

#### 2.2.1. Electrical connections

Connect the fixture to the mains with the enclosed power cable and plug. The earth has to be connected.

Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	Ν
Yellow/Green	Green	Earth	•

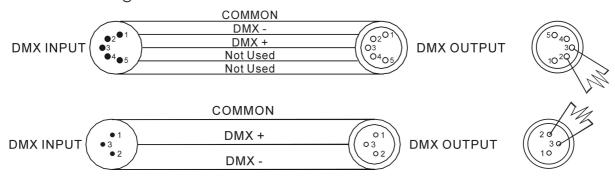


#### 2.2.2. DMX connections

Make sure that you use shielded cable. 3pol or 5pol XLR cables are suitable.

## 2.3. DMX connection with terminator

Where the DMX cable has to run a long distance or the equipment is operated in an electrically noisy environment like a disco for installations, we recommend using a DMX terminator. This prevents corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR connector with a 120  $\Omega$  resistor between pins 2 and 3, which is then plugged into the XLR output socket of the last device in the series. Please look to the bottom drawings.





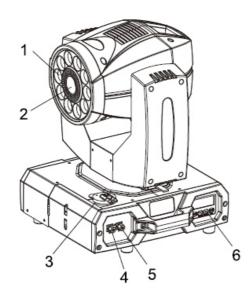
## 3. Introduction

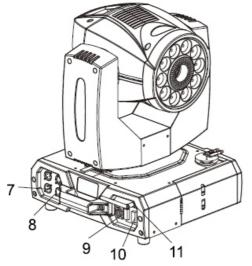
Thank you for choosing a device from DJPower. Before usage please read this manual carefully.

### 3.1. Item delivered

- 1x Fog machine H-1 Moving Head
- 1x power cord P-Con
- 1x Remote W-4
- Manual (German / English)

## 3.2. Product description





- 1. LEDs 10x 8W
- 2. Nozzle
- 3. Tank
- 4. Oil inlet fitting
- 5. Oil return fitting
- 6. LC Display
- 7. XLR 3pol INPUT/OUTPUT
- 8. XLR 5pol INPUT/OUTPUT
- 9. Power supply 10.On/Off switch
- 11. Antenna



## 4. Start-up

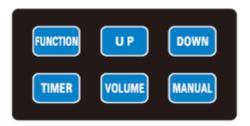
#### Attention!

Remove before start-up every packing material.

- 1. Fill the tank with fluid. Make sure that there is always enough fluid in the tank.
- 2. Connect the device to the power supply.
- 3. The device starts to heat up. This process needs 4 min, meanwhile the display shows "WARMING UP".
- 4. The heating process is finished. The display shows

## 4.1. Operation

The operation can be made by the LC display.



FUNCTION For call-up the structure of menu to make

individual settings.

UP To select a point of menu or increase a value.

DOWN To select a point of menu or decrease a value.

TIMER Activates the timer mode.

VOLUME Activates the fog output. The fog output is

deactivated by pressing the button again.

MANUAL Activates the fog output, while the button is

pressed.



## 4.1.1. Structure of the menu

Menu	Setting	Function
DMX512 Address	1 – 512	To set the interval.
Wireless Set	On / Off	(De-)Activates the remote.
Pan Inverse	On / Off	(De-)Activates the inverted Pan.
Tilt Inverse	On / Off	(De-)Activates the inverted Tilt.

## 4.1.1. DMX chart

If the device is controlled by DMX the display shows the set DMX address.

Channel	Value from	Value to	Function
1	0	9	No function
1	10	255	Output volume low – high
2	0	9	No function
	10	255	Dimmer red 0 – 100%
3	0	9	No function
3	10	255	Dimmer green 0 – 100%
4	0	9	No function
4	10	255	Dimmer blue 0 – 100%
5	0	9	No function
3	10	255	Dimmer amber 0 – 100%
6	0	9	No function
0	10	255	Color mixing
7	0	9	No function
7	10	255	Strobe slow – fast
8	0	9	No function



	10	255	Dimmer 0 – 100%
9	0	255	Pan
10	0	255	Tilt

#### 4.1.2. Remote



- 1. Activate the remote. (Cf. chapter 4.1.1).
- 2. Power off the device.
- 3. Power on the device again. The display shows a bar diagram. Press, while the bar diagram is shown in the display, any key on the remote. This process needs 15s.
- 4. The display shows "Wireless Setup OK". The remote is connected successfully with the device.

Overall it is possible to match three different remotes to the device. Furthermore it is possible to match one remote to two devices. For this the two devices have to be powered on at the same time. The practice is the same as described above.



# 5. Technical data

Voltage	AC 220 V – 240 V; 50/60 Hz
Power consumption max.	1500 W
Fuse	8 A/250 V; 15A/250 V
LM type	LED 4in1
Color spectrum	RGBA
Power	80 W
Number x Power	10x 8 W
Heating power	1300 W
Heating time	4 Minutes
Tank volume	1,3 Liter
Output volume	566 m³/min
Fluid consumption @100%	100 ml/min
DMX 512	Yes
Number of DMX channels	10
Remote	Yes
Frequency of the remote	433 MHz
Power in	P-Con
XLR in/out	3pol/5pol
Dimensions	403 x 355 x 477 mm
Weight	18 kg



For your notes:



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