



MINI-K  
USER'S 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.
- The safety distance to the audience must be 2 metres.

### 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 dampened 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.

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## 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 startup 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.

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 and keep a distance from 1 meter to the nozzle.

Keep a minimum distance of 1 meter to other objects.

Use only the recommended, high quality granule from your dealer.

Other fluids may cause damages.

Never aim the nozzle on open fire or flammable objects.

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.

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## 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 | N             |
| Yellow/Green | Green      | Earth   |               |

### 2.2.2. DMX connections

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

### 2.3. Wireless Remote / Frequency 433Mhz

When the heating process is finished, the green light lights up and indicates that the button on the remote control can be pressed. If heating is not complete, the green light does not light up and the red light is on, then the remote control cannot be operated. 4 channels can be selected, suitable for 1,2,3,4, if only 1 channel is used, the others are closed. The channels are for grouping frequency 433Mhz

| BUTTON | FUNCTION           |
|--------|--------------------|
| 1      | on                 |
| 2      | Off/ Stop          |
| 3      | 10 seconds /Spark  |
| 4      | 2 group / W1       |
| 5      | 20 seconds / Spark |
| 6      | 3 group / W2       |
| 7      | 30 seconds / Spark |
| 8      | 4 group / W3       |



Wireless Remote Control Set (With 4 Channel Dip Switch)

### 2.4 Wired Remote controller

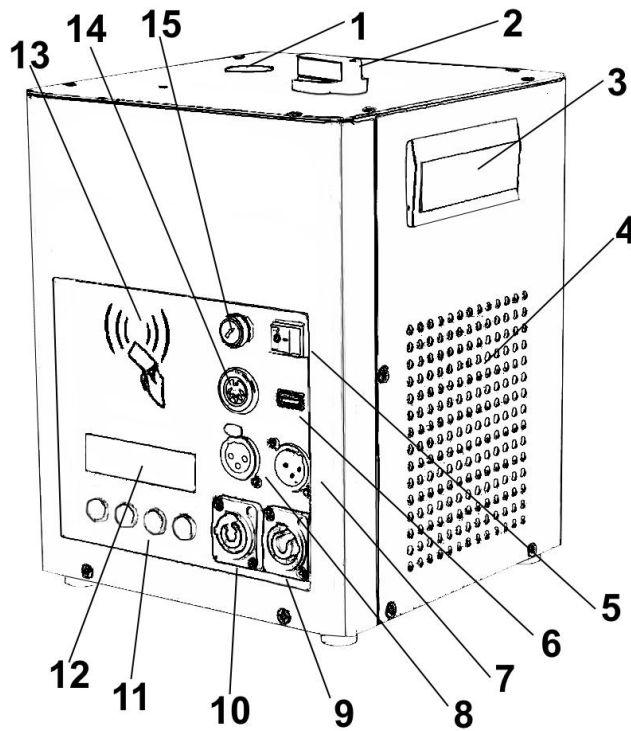
When the heating process is finished, the green light lights up and indicates that the button on the remote control can be pressed. If heating is not complete, the green light does not light up then the remote control cannot be operated.

### 3. Introduction

Thank you for choosing the EWTX Mini-K

We recommend that you carefully read these operating instructions before commissioning the unit. Please follow the instructions in this manual. This is the only way to ensure safe operation, proper use and long service life.

#### 3.1. Product description



1. Nozzle
2. Feed port
3. Handle
4. Cooling channels
5. On/Off switch
6. USB Port
7. XLR 3 pol / in
8. XLR 3 pol / out
9. Power / out
10. Power / in
11. Buttons
12. LCD Display
13. Induction Zone Card
14. Remote Controller / wired Controller
15. Fuse



## 4. Before using

Remove before start-up every packing material. Place the unit on a level, dry surface. The machine is not allowed to be turned upside down or angled. Make sure she stands up straight. Otherwise the machine will be damaged.

1. After verifying that the unit is intact and complete, please place it on a level surface.
2. Now you have to fill in the granules. More information for this you can read on the packing of the granules. You are only allowed to use the granules of EWTX.
3. Connect the device to the power supply.
4. The device starts to heat up. This process needs 5 minutes, meanwhile the display shows „Warming up“.
5. The heating process is finished. The display shows „Ready to work“.

## 5. Control buttons



| Button       | Function                            |
|--------------|-------------------------------------|
| <b>MENU</b>  | Navigation through the menu.        |
| <b>UP</b>    | Increase a value or make a setting. |
| <b>DOWN</b>  | Decrease a value or make a setting. |
| <b>ENTER</b> | Confirm a setting.                  |

According the menu instruction to set what function you need. after 10 seconds no operation, the sub menu will revert back to main menu and save current setting data.

## 6. User Interface

### 6.1 Status interface

| Advice               | Description                                     |
|----------------------|---|
| <b>Warming Up</b>    | <b>The unit is pre-heating, need 3 Minutes.</b> |
| <b>Ready to work</b> | <b>The unit is ready for spark effect.</b>      |

### 6.2. Menu

| Menu                                       |                    | Function   |
|--|--------------------|--|
| <b>Dmx512 / Add.</b>                       | 1-512              | Setting the DMX address.   |
| <b>Mini-K V1 - (spray time ) Each page</b> | 1800               | Shows up the User time for Spark in Seconds                                      |
| <b>Volume out</b>                          | 1-100              | Setting the fountain height.   |
| <b>Wireless</b>                            | 1-3                | Setting the Unit for Remote control for groups (W1 =2) , (W2 = 3), (W3 = 4 )     |
| <b>Tip Over Manual Test</b>                | On/ OFF<br>On/ OFF | Setting a Error reminder if the unit falls to a side.<br>Test the Unit for Spark |

### 6.3. DMX Interface

| Display           | Meaning  |
|-------------------|--|
| Dmx 512 - 001 / 1 | The unit is ready to work. Current DMX address is 1. |

## 7. Operation

If the device is in a good condition, it can start a fountain for 15 minutes continuously with a volume of 100% - 255 for a fountain height of 3 meters depends with the Indoor powder

## 8. Operation via DMX

| Channel | Value from | Value to | Function           |
|---------|------------|----------|--------------------|
| 1       | 0          | 0        | No Function / STOP |
|         | 3          | 35       | Height 1           |
|         | 36         | 60       | Height 2           |
|         | 61         | 85       | Height 3           |
|         | 86         | 110      | Height 4           |
|         | 111        | 135      | Height 5           |
|         | 135        | 160      | Height 6           |
|         | 161        | 185      | Height 7           |
|         | 186        | 210      | Height 8           |
|         | 211        | 235      | Height 9           |
|         | 236        | 255      | Height 10          |

## 9. Settings

### 9.1. DMX address

Connected to DMX signal, the unit will display "Dmx512 - 001/ 1" in the LCD screen. Or press "MENU" button till pages "DMX512". Through "Up" and "Down" to set the address.

### 9.2. Volume out height setting

Press "MENU" Button till page "Volume out". Adjust the fan speed through "Up" and "Down". Maximum speed is 1-100.

## 10. RFID card

### 10.1. How to use the card

Tap the IC Card to the Induction zone to activate the unit. Each card enables the unit to work 30 seconds. In the meantime, the IC card will be invalid after being read.

### 10.2. How to check the remaining time

Press "Menu" button on each page shows the Display Mini-K V1 - "in Seconds 57299" the usertime (spray time ). Tap another new card to re-activate the unit when the time is over.



## 11. Technical data

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Voltage</b>                    | AC 220 V; 50 Hz |
| <b>Power consumption max.</b>     | 790 W           |
| <b>Heating-time</b>               | 3 Minutes       |
| <b>Consumption</b>                | 14 g/min        |
| <b>Height of the fountains</b>    | 1-3 Meter       |
| <b>Number of DMX channels</b>     | 1               |
| <b>Remote / Frequency 433 MHz</b> | Yes             |
| <b>Dmx 1-512</b>                  | Yes             |
| <b>XLR 3 pol in / out</b>         | Yes             |
| <b>Power in</b>                   | P-Con           |
| <b>Wired remote Controller</b>    | Yes             |
| <b>Dimensions</b>                 | 190x190x260 mm  |
| <b>Weight</b>                     | 6,5Kg           |



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