



# AUDIBAX SPARK 900W Spark Machine User Manual

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## USER'S MANUAL



SPARK 900W  
Spark Machine

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[www.audibax.com](http://www.audibax.com)

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## WELCOME TO AUDIBAX

Thank you very much for choosing Audibax. We hope you enjoy your new product.

It has been developed and designed paying attention to the smallest details, with quality control with European standards supervised by our great team of professional technicians, who work every day to offer our customers the best quality.

We make sure that every Audibax product is built to last long. All our references are made with long lasting materials and our specialists are dedicated to constantly doing quality controls to guarantee the best result.

Please read carefully this manual in order to use your Audibax product in the best way.

Do not hesitate to visit our website for further information: [www.audibax.com](http://www.audibax.com)




## SAFETY INSTRUCTIONS

### GENERAL INFORMATION

- It is important to read and follow the instructions carefully.
- Keep all information and instructions in a secure location.
- Always follow the instructions provided.
- Take note of all safety warnings and never remove them from the equipment.
- Use the equipment only as intended and for its intended purpose.
- Ensure that the stands and/or mounts used are sufficiently stable and compatible for fixed installations. Wall mounts should be properly installed and secured, and the equipment should be installed securely to prevent falls.
- When installing the equipment, be sure to observe the relevant safety regulations in your country.
- Do not install or operate the equipment near sources of heat, such as radiators, heat registers, or ovens, and ensure that it is always cooled sufficiently and cannot overheat.
- Do not place sources of ignition, such as burning candles, on the equipment.
- Keep ventilation slits unobstructed.
- For equipment designed for indoor use only should not be used near water, flammable materials, fluids, or gases. Special outdoor equipment should be used in accordance with the manufacturer's instructions.
- Ensure that no dripping or splashed water can enter the equipment and do not place containers filled with liquids on the equipment.
- Prevent objects from falling into the equipment.
- Use the equipment only with recommended accessories intended by the manufacturer.
- Do not attempt to open or modify the equipment.
- Check all cables after connecting the equipment to prevent accidents or damage due to tripping hazards.
- During transport, take steps to prevent the equipment from falling and causing damage or injury.
- If the equipment is not functioning properly, fluids or objects have gotten inside, or is otherwise damaged, switch it off immediately and unplug it from the power outlet (if applicable). Only authorized, qualified personnel should repair the equipment.
- Clean the equipment with a dry cloth.
- Comply with all applicable disposal laws and separate plastic and paper/cardboard during packaging disposal.
- Keep plastic bags out of the reach of children.

### FOR DEVICES DESIGNED TO BE CONNECTED TO THE MAIN POWER SUPPLY:

- **ATTENTION:** If your equipment has a power cord with a grounding plug, it must be connected to a wall outlet with a ground connection. Never remove the grounding plug from the power cord.
- If your equipment has been exposed to extreme temperature changes, allow it to reach room temperature before turning it on. Otherwise, moisture and condensation may damage the equipment.
- Before plugging in the equipment, make sure that the voltage and frequency of the power outlet match the specifications of the equipment. If the equipment has a voltage selector, only connect it to the power outlet if the values match. If the power cord or adapter does not fit your outlet, contact an electrician.
- Do not step on the power cord. Make sure it is not pinched at the outlet, adapter, or equipment connection.
- Keep the power cord or adapter within reach and disconnect the equipment from the power supply when not in use or when cleaning it. Always unplug the cord or adapter by pulling the plug or adapter, not the cord. Never touch the cord or adapter with wet hands.
- Avoid frequently turning the equipment on and off, as this can reduce its useful life.
- **IMPORTANT:** Only replace fuses with those of the same type and rating. If a fuse repeatedly blows, contact an authorized service center.
- To completely disconnect the equipment from the power mains, unplug the power cord or adapter from the outlet.
- If your device has a Volex power connector, the mating Volex connector must be unlocked before it can be removed. Be careful when laying cables, as the equipment can slide or fall if the power cord is pulled.
- Unplug the power cord or adapter before an extended period of disuse or in case of lightning strike risk.
- Only install the equipment when it is disconnected from the power source.
- To prevent damage and overheating, qualified personnel should regularly clean and service the equipment depending on ambient conditions like dust, nicotine, and fog. If the product contains the following symbols, please, read carefully:

 <b>CAUTION</b> Risk of Electric Shock. Disconnect all power sources before servicing	<b>CAUTION:</b> To reduce the risk of electric shock, do not remove cover (or back). There are no user serviceable parts inside. Maintenance and repairs should be exclusively carried out by qualified service personnel.
	The warning triangle with lightning symbol indicates dangerous uninsulated voltage inside the unit, which may cause an electrical shock.
	The warning triangle with exclamation mark indicates important operating and maintenance instructions.

## IMPORTANT INFORMATION

### WARNING! IMPORTANT INFORMATION REGARDING LIGHTING PRODUCTS

1. This product is specifically designed for use in event technology and is not intended to be used as household lighting.
2. It is important to avoid looking directly at the light beam, even for a short period of time.
3. Optical instruments, such as magnifiers, should not be used to look directly at the beam.
4. If you are sensitive to strobe effects, it is possible that they could cause an epileptic seizure. If you have epilepsy, it is important to avoid places where strobe lights are being used.

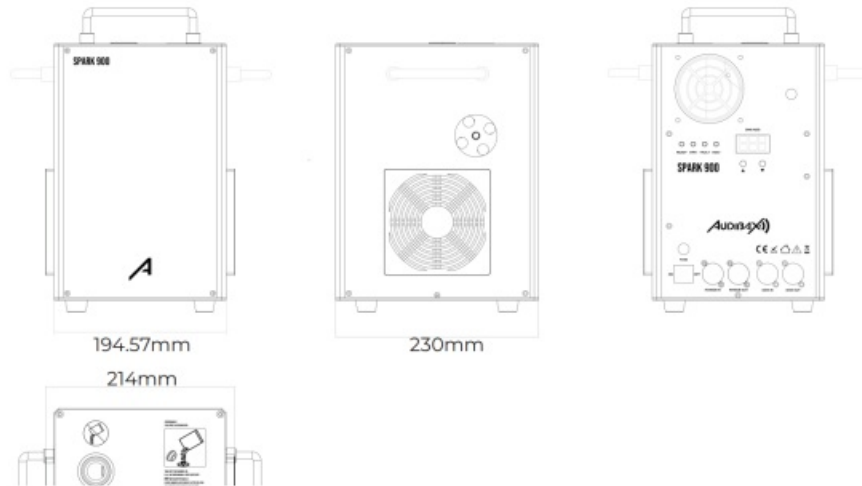
## PACKAGE CONTENT

- 1 x Spark 900W
- 1 x Power cord
- 1 x User's manual

## PRODUCT PARAMETERS

- Working Height: 1-6M

- Working Temperature: -10°C – 50°C
- Heating Power: 900w 6A (110V Version), 900w 3A (220V Version)
- Fuse: AC220-240V, 50/60Hz
- Interface: Double DMX input, Double AC power
- N.W.: 7.7kg
- Machine Dimension: 235x210x305mm
- Packing Dimension: 305x305x380mm
- Max. connections: Max. 6PCS



## DMX OPERATION

1. International standard control signal: DMX 512
2. The device uses two channels (channel 1: control preheat and emergency stop channel2: control spray height)
3. Spray height adjustable
4. Overheating can be intelligently protected
5. The digital display of the SPARK MACHINE shows that F1-F5 corresponds to the 1-5-position spray height gear position respectively
6. When the green Ready light is flashing, the unit is waiting to finish the heating cycle, when the cycle ends the solid green light indicates that it is ready to operate.

## OPERATION PANEL



**READY:** green light, flashing, indicates that the machine is starting up, steady green light indicates that the machine is ready to operate.

**DMX:** blue light flashing, indicates presence of DMX signal in the unit. Absence of blue light, there is no DMX signal in the unit.

**FAULT:** yellow light, is on when there is an error

**HEAT:** PREHEAT INDICATOR, Red light on, the unit is performing the heating cycle  $\Delta \nabla$  : increase or decrease the DMX values (channels) for the unit to be controlled, values from 1 to 512.

## Remote control function:



1. Short press the red button, the unit screen will display “FFF”, it indicates that the remote controller has been paired with the unit. Long press the red button, when the unit screen displays “OFF”, it indicates that the remote controller has been unpaired.
2. “ON”button : start pre-heat “OFF”button: turn off pre-heat
3. “1/2/3”button: working height, “1”=F1; “2”=F3; “3”=F5
4. “E-stop”button: emergency stop
5. “Clear Powder” button: Press this button to start the unit cleaning cycle. Press “OFF” to stop the cleaning cycle.
6. Power off: Press the red button for 3 seconds.

**Note:** If you need to control 2 or more units with the same remote control: connect the power cable to the units to be controlled, press the power button on the unit, press the red button on the remote control for a few seconds, the display(s) of the units will indicate “fff” confirming the linking of the remote control with the activated units, if you want to control more units with another remote control (group b) turn off the previously linked units, turn on the units you want to link to the remote control (b) press the red button on the remote (b) for 3 or more seconds, the units will indicate “fff” on their display, now you can govern 2 groups of units with 2 independent remote controls.

## DMX512 SIGNAL CONTROL

To use the units by DMX control, always use cables indicated for this purpose, with 3-pin XLR connectors.

When the DMX console is successfully connected to the machine, the DMX signal light (blue) on the machine flashes; the first channel (240-255) pre-heat function can be turned on, the HEAT light (red) lights up, and the temperature Rise will be displayed on the machine screen; when the heating is completed, the screen will display the DMX channel, and the READY lamp (green) will change from blinking to steady state, indicating that the spray is ready, and the spray height can be controlled through the second channel.

## UNIT ERROR MESSAGE CODES

Display content	Fault causes	Solution
E01	Failure in preheating phase	1: Check whether the heat dissipation of the unit is normal. 2: Return the unit for inspection by specialized technicians.
E02	Heating plate not controlled	1: Return the unit for inspection by specialized technicians.
E03	Heating plate not controlled	1: Check that the cooling fan is not blocked or not moving 2: Stop the unit and the projection, turn off the unit for at least 10 minutes from the power, reconnect the unit, if the problem persists, return the unit for review by specialized technicians
E04	Fan failure	1: Check if there is any foreign material falling into the spray port 2: Perform cleaning of the consumable charging circuit
E05	Temperature sensor failure	1: Clean the consumable charging circuit 2: If the problem persists, send the unit for review by specialized technicians

**Note** When the fault light is active, perform the steps indicated in modes e01, e03, e04 and e05, in the event that the unit indicates fault again after performing the procedure, send the unit for review by specialized technicians, “do not open the unit, do not try to repair it by yourself”

## CONSUMABLES CONSIDERATIONS

1. If the consumable is ignited by an extreme heat source, do not try to extinguish it with water, use an approved class “d” extinguisher and, failing that, cover it with dry sand to prevent it from spreading.
2. Consumables should be kept in a dry and sealed environment to prevent moisture
3. The consumables are classified as:  
 Small consumables: the spray height is 1.0-3.0 m (error 0.5 m), and the spattering point is not lost.  
 Medium Consumables: The spray height is 2-4 meters (0.5 m error), and the spot is rarely dropped.  
 Large consumables: The spray height is 2-5 meters (0.5 m error), and the sprayed spot has dropped ground.
4. If you notice that the projection is not constant throughout the cycle, this may be due to dirt in the circuit or lack of consumable.  
 Never mix different fuels in the same unit, make sure to empty the old consumable into the circuit before adding the new one.

## CLEAN MATERIAL

1. After use, please turn the SPARK MACHINE upside down to empty the remaining material into the loading hopper, and store it in a dry and sealed container.
2. After emptying the remaining material, please heat it again and activate the cleaning mode until no spark comes out, to clean the remaining material from the machine. (Note: Problems caused by improper cleaning will not be covered by the free warranty)

## WARNING AND SAFETY MATTERS

1. Do not spray for more than 30 seconds at a time. If the continuous projection time is too long, the internal

temperature will rise sharply and cause permanent damage. After a single prolonged projection, you must wait a few minutes for the next projection, in order to avoid overheating.

2. When the unit is in a projection cycle of more than 30 seconds, it will automatically stop for safety, space out the times between prolonged projections to avoid overheating the unit. If it is necessary to continue, the spray function can be activated again.
3. The unit has a power input and output to unify up to 6 units in a chain, make sure of the consumption of the same and that the section and voltage of the connected cable allows it, an overload within the power circuit due to excessive consumption, can cause damage to the unit.
4. If the unit does not produce sparks, it may be due to several factors.
  - a. Insufficient consumable in the tank, fill the tank to the indicated limit
  - b. Obstruction due to excess material, the hopper loading gear is blocked by remains of wet or compacted consumable, turn off the unit to avoid burns, you must free the gear from consumable remains, to operate again.

If the remains are stuck, you must open the housing and manually turn the chain counterclockwise.
5. When you finish spraying, do not immediately turn off the machine. The heating should be turned off and the heat dissipation fan should blow out the hot air inside the machine when the machine is turned on. Otherwise, the internal heat is quickly transmitted to the surface of the shell.
6. Operate the unit at a distance of 3 to 5 meters.
7. Make sure the device is turned off before powering it.
8. If the consumable should ignite due to an extreme heat source, do not try to smother it with water, use an approved class "d" type extinguisher and, failing that, cover it with dry sand to prevent the spread.
9. Store the consumables in a cool, dry and sealed environment.
10. Damage caused by misuse of the unit, or by failure to follow the maintenance instructions, is not covered by the warranty.

## **Safety**



### **Warning and precautions**

This sign is to alert the user to the hazard and to provide important information for the user to operate the SPARK MACHINE safely and effectively.

A security statement is as following:

Warning: This warning alerts you to hazardous or potentially hazardous operations and has given a description of the hazard and neglected the consequences.



### **Eye Protection**

This sign is to alert the user to the hazard and to provide important information for the user to operate the SPARK MACHINE safely and effectively.

A security statement is as following:

Warning: This warning alerts you to hazardous or potentially hazardous operations and has given a description of the hazard and neglected the consequences.



### **Injury Voltages**

Warning if the device and controller has dangerous voltage when it working, there is a risk of electric shock.

Do not open or remove (adjust) any part of the device or controller, this may only be done by specialized personnel.



### **Moisture proof warning**

Warning The operator should keep the SPARK MACHINE and controller in dry environment, do not use it in rain

and snow.

DISPOSAL



Packaging:

- 1. The packaging can be recycled using standard disposal methods and reintroduced into the reusable material cycle.
- 2. Please follow the laws and regulations regarding disposal and recycling of packaging in your country.



Device:

- 1. This device is subject to the Waste Electrical and Electronic Equipment (WEEE) Directive of the European Union. Used appliances should not be disposed of with household waste. Used device must be disposed of through an approved disposal company or a municipal disposal facility. Please comply with the applicable regulations in your country.
- 2. Please follow all the disposal laws and regulations in your country.
- 3. As a customer, you can obtain information on environmentally-friendly disposal options from the product seller or the appropriate regional authorities.


DMX

CH1	Function	Digital Tube Display
0-10	Pre-heat turn off	OFF
11-220	Emergency stop	E57
221-239	Pre-heat turn on	CLE
240-255	Pre-heat ON	Temperature DMX address


CH2	Function	Digital Tube Display
0-15	Turn off	OFF
16-63	Spark Height 1	F1
64-111	Spark Height 2	F2
112-159	Spark Height 3	F3
160-207	Spark Height 4	F4
208-255	Spray Height 5	F5



## Documents / Resources

 <p>SPARK 900W</p> <p>Spark Machine Machine Spark Machine</p>	<p><b>AUDIBAX SPARK 900W Spark Machine</b> [pdf] User Manual</p> <p>SPARK 900W Spark Machine, SPARK 900W, Spark Machine, Machine</p>
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## References

-  [Home - Audibax](#)
- [User Manual](#)

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