



*The New Edge in Fragrance Technology*

# ES1100 User Manual



Eco-Scent is an affiliate of



[www.eco-scent.com](http://www.eco-scent.com)  
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Lifetime Warranty

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24 Hour Technical Support: 888-391-7669

## IMPORTANT SAFETY INSTRUCTIONS

This machine is designed specifically with events in mind and helps add a special touch to large indoor events or venues. The ES 1100 Pro will disperse custom fragrances throughout the event to set the desired mood. With the help of break-through Dry Wave technology the event will stay eco friendly and free of oil deposits or spritzer dampness.

## IMPORTANT PRODUCT AND SAFETY INFORMATION

Failure to follow these instructions can cause serious bodily injury or property damage.

## INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS

**WARNING: YOU MUST READ THE FOLLOWING BEFORE OPERATING THE "ES 1100".**

The ES 1100 is an electric product – not a toy. To avoid the risk of fire, burns, personal injury, and electric shock, it should not be used in a manner for which it was not designed and should be placed out of the reach of small children. Competent adult supervision is necessary to avoid the risk of electric shock or personal injury.

Always secure the ES 1100 when in use. Do not operate it in the rain or near standing water.

Always use an outlet with an earth grounded receptacle and a ground fault circuit interrupt (GFCI). Never operate the ES 1100 with a frayed electrical wire.

Never use this product for any activity other than for what it is designed.

**WARNING –** When using electric appliances, basic precautions should always be followed, including the following:

- Read all the instructions before using the appliance.
- To reduce the risk of injury, close supervision is necessary when an appliance is used near children
- Do not contact moving parts.
- Only use attachments recommended or sold by the manufacturer.
- For a cord-connected appliance, the following shall be included:
  - To disconnect, turn all controls to the off ("O") position, then remove plug from outlet.
  - Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
  - Unplug from outlet when not in use and before servicing or cleaning.
  - Do not operate any appliance with a damaged cord or plug, or after the appliance malfunctions or is dropped or damaged in any manner. Return appliance to the nearest authorized services facility for examination, repair, or electrical or mechanical adjustment.
- Use only Eco-Scent fragrance cartridges.
- Do not place or store appliance where it can fall or be pulled into a tub or sink.
- This appliance is provided with double insulation. Use only identical replacement parts. See instructions for servicing of double-insulated appliances.

### **Specifications:**

Voltage: 110V (220v, 100v also available)  
Fuse: 10 Amps  
Size: 15" x 10" x 8"  
Weight: 30 Lbs  
Materials: Mild Steel made in the USA



The ES1100 Scent Controller consists of a relay and a control interface capable of receiving a DMX signal. The DMX address is set via a three digit rotary switch located on the back of the device. The DMX address is settable in a decimal fashion.

The ES1100 Scent Controller board has the ability to be configured for two voltage ranges, 90VAC to 130VAC and 200VAC to 240VAC. This setting is configured via non-user configuration jumpers. The configuration mechanism is labeled on the PCB. Power inputs are not fused on the PCB. It is the responsibility of the customer to fuse the AC mains before they are connected to the controller.

The DMX interface is compliant with DMX-512 standards and electrically isolated to 1000VAC. The start address is selectable from 1 to 511. The DMX protocol occupies 2 channel positions defined as Duration and Fan Speed. The Duration channel defines the overall operation of the snow machine. The Duration will correspond to the selected start address and the Fan Speed will be the next sequential address.

Duration	Fan Speed
255	255
:	:
0	0

Duration has three selectable modes, A: (1 minute on, 3 minutes off), B: (1 minute on, 1 minute off) and C: (3 minutes on, 1 minute off). The durations correspond to the DMX value ranges A: (0-84), B: (85-169) and C: (170-255). Fan speed has eleven increments, (0-15) being off, (16-24) being lowest speed (225-255) being the highest. With the exception of the slowest and highest speeds, Fan Speed changes in 25 point increments i.e. (25-49, 50-74, etc.)

DMX Level	Duration
0-84	1 Min On, 3 Mins Off
85-169	1 Min On, 1 Min Off
170-255	3 Mins On, 1 Min Off

DMX Level	Fan Speed
0-15	Off
16-24	10%
25-49	20%
50-74	30%
:	:
200-224	90%
225-255	100%

The table shows the all settings that can be attained with the use of the three digit rotary switch located on the back of the device. An 'X' in a position indicates that the number in that position does not matter for the required result to be attained. Switch A is in the hundreds position, Switch B is in the tens position, and Switch C is in the ones position.

There are three modes in which the device may operate: Idle, DMX and rotary controlled.

A	B	C	Mode
0	0	0	Idle
0	0	1	DMX
:	:	:	
5	0	9	
5	1	0	Idle
:	:	:	
5	9	9	
6-9	0-2	X	1 Min On, 3 Min Off
6-9	3-5	X	1 Min On, 1 Min Off
6-9	6-9	X	3 Min On, 1 Min Off
6-9	9	X	Always On
6-9	X	2-9	Fan Speed: 2 being Lowest, 9 Being Highest

The DMX interface is also provided as a pass thru connection. Pins 4 and 5 are pass-thru when used in a DMX configuration.