

USER MANUAL

SONICBOOM® PLUS SMOKEJET

V3.1

2024/07/03



SHOWVEN Technologies Co., Ltd.

Thanks for choosing SHOWVEN® SONICBOOM® PLUS smokejet, we wish it will bring you lots of exciting moments.
Please read the following manual carefully before operating this product.

Δ **SAFETY CONSIDERATIONS**

- \\ Unauthorized repair are prohibited, it may cause serious incident
- \\ This product is not waterproof design, please keep it dry, please do not use it when there are fog fluid leakage or wet from rain.
- \\ Make sure power supply is consistent with the rated voltage of the equipment, and the socket must be well grounded. Unplug and turn off the machine when not use.
- \\ For adult use only, keep it away from fire, inflammable and explosive articles.
- \\ Installed in well ventilated area, ensure at least 50cm space around the machine, cover of the nozzle is forbidden.
- \\ If the machine fails to work, please stop operation and unplug the machine. Check fog fluid, fuse, power connection etc. carefully, if can't solve the problem, please contact SHOWVEN® or your local SHOWVEN® partner for advice.
- \\ Suggest use SHOWVEN® original FX-S fog fluid, other fluid may lead to clog or malfunction. Please do not add any other material such as pigment, water etc to the fuel bottle.
- \\ To avoid fluid spill, make sure fog fluid not exceed related MAXIMUM fluid level line. When install SONICBOOM® in invert direction, the fuel bottle should be installed upward.
- \\ In case of eye contact of fog fluid, please wash it with clean water. If fluid is swallowed immediately look for medical advice.

Δ **Description**

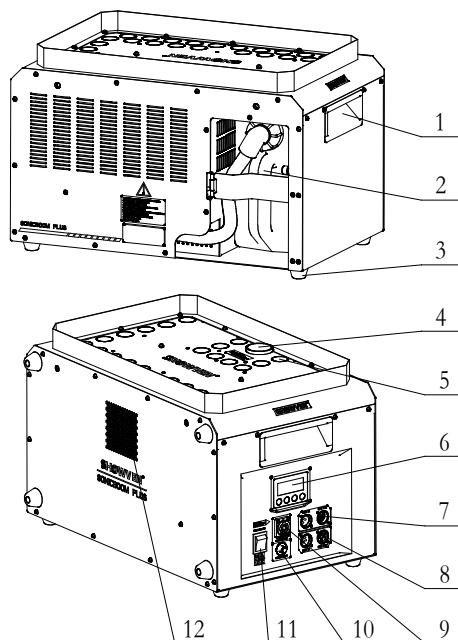
SONICBOOM® PLUS is a new generation CO₂ jet simulator, derived from the SONICBOOM® platform but with a dual smoke generation system and dual output design, to meet the high end professional requirement for faster and denser vertical fog effects. With auto pressure control and accumulator design ensure the better smoke column consistency.

Δ **Technical Specifications**

- \\ **MODEL:** SONICBOOM® PLUS
- \\ **DIMENSION:** 500×324×325mm
- \\ **WEIGHT:** 28kg
- \\ **VOLTAGE:** 220V / 110V, 50/60Hz
- \\ **FUSE:** 15A/250V (220V), 18A/250V (110V)
- \\ **POWER:** 3000W/1800W(220V), 2400W/1800W(110V)
- \\ **LED POWER:** 9W×38pcs
- \\ **MAX OUTPUT DISTANCE:** 10m

- \ **MAX CONTINUOUS OUTPUT DURATION:** 10s
- \ **OUTPUT:** 80000cuft/min
- \ **FLUID CONSUMPTION RATE:** 3min/L
- \ **TANK CAPACITY:** 5L
- \ **DMX CHANNEL:** 1/11/14
- \ **CONSUMABLES:** FX-S

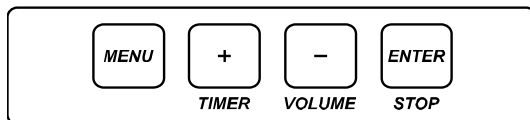
Δ **Structure**



1. Handle
2. Fluid Bottle
3. Foot
4. Output Nozzle
5. LED
6. LCD Screen
7. 3-PIN DMX
8. 5-PIN DMX
9. Power Socket
10. Fuse
11. Power Switch
12. Cooling Fan

Δ Operation Panel

1. Control button area



MENU: Short press to switch interface, press and hold for 3 seconds can switch to the advanced setup interface

+: Parameters up; multiplex "TIMER" (smoke output time)

-: Parameters down; multiplex "VOLUME" (smoke output start)

ENTER: Confirm and save parameters, screen will blink once when save successfully. multiplex "STOP".

NOTE: Screen will switch to main interface automatically if not press any button in about 15s.

Example of "TIMER" setting function in the menu:

1. "set interval 10s"

2. "set duration 2s"

Press "VOLUME" button under main interface, SONICBOOM® start to generate smoke, and will repeat firing 2s, interval of 10s. Press "STOP" to stop the machine.

This manual firing function disabled when connect with DMX cable.

Δ Interface

1. Main interface:



First line: Display DMX address is "1". ":" blinks when there is DMX IN signal.

Second line: Shows machine core temperature. The machine is ready for operate only when temperature close to 100%.

2. Error information

Error information	Explanation
E2 Temp. Sensor	Temperature sensor fault
E5 KTemp Over	Circuit fault
E6 Heat Fail	Heating element damage or circuit fault or unstable voltage

3. Setting Menu

Press "MENU" switch through setup menu.

Options	Range	Default	Explanation
Set DMX Address	1~507	1	Set DMX address
Power Set	Standard / Low Power	Standard Power	Setting working power for the machine
Color Optional	OFF/Red/Green/Blue/Pink/Purple/Orange/Yellow/Sky blue/White /Rand	OFF	LED color set when manual firing
Channel Mode	1 / 11/ 14	11	Channel mode switch
LED Delay	OFF-3.0s	0.5s	LED delay after smoke output stop
Fog Volume	50% / 80% / 100%	100%	Fog volume manual adjust

4. Advanced Menu:

Press "MENU" for 3s, enter advanced setting interface

Options	Range	Default	Explanation
Manual Evacuate	ON/OFF	OFF	Manual Evacuate when pressure always insufficient
Interval Set	1-200s	30s	Interval time
Duration Set	1-14s	3s	Smoke output duration
Wireless Remote	ON/OFF	OFF	Reserved, no function
Language	Chinese/English	English	Language switch
Manual Pump	ON/OFF	OFF	Manual turn on the pump, for maintenance

Δ DMX Control

There are three DMX channel mode for SONICBOOM® PLUS, single channel mode, 11 channel mode and 14 channel mode switchable.

Single channel mode

Fog output and LED color controlled in the same channel.

DMX value	Function
0-5	FOG OFF
6-40	FOG ON – LED OFF
41-60	FOG ON - RED
61-80	FOG ON – GREEN
81-100	FOG ON – BLUE
101-120	FOG ON – PINK
121-140	FOG ON – PURPLE
141-160	FOG ON – ORANGE
161-180	FOG ON – YELLOW
181-200	FOG ON – SKY BLUE

201-220	FOG ON – WHITE
221-235	FOG ON – RANDOM
236-255	FOG ON – LED OFF

11 channels mode

Channels	Function
Channel 1	Fog ON/OFF: (0-5) OFF, (6-255) ON
Channel 2	Inner LED RED: (0-9) OFF, (10-255) LED brightness increase
Channel 3	Inner LED GREEN: (0-9) OFF, (10-255) LED brightness increase
Channel 4	Inner LED BLUE: (0-9) OFF, (10-255) LED brightness increase
Channel 5	Outer LED RED: (0-9) OFF, (10-255) LED brightness increase
Channel 6	Outer LED GREEN: (0-9) OFF, (10-255) LED brightness increase
Channel 7	Outer LED BLUE: (0-9) OFF, (10-255) LED brightness increase
Channel 8	LED Random: (0-9) OFF, (10-255) LED random color, use together with channel 9.
Channel 9	LED color change speed: (0-9) OFF, (10-255) LED color change speed increase
Channel 10	LED strobe: (0-9) OFF, (10-255) LED strobe increase
Channel 11	LED dimmer: (0-9) OFF, (10-255) LED brightness increase

14 channels mode

Channels	Function
Channel 1	Fog ON/OFF: (0-5) OFF, (6-255) ON
Channel 2	Inner LED RED: (0-9) OFF, (10-255) LED brightness increase
Channel 3	Inner LED GREEN: (0-9) OFF, (10-255) LED brightness increase
Channel 4	Inner LED BLUE: (0-9) OFF, (10-255) LED brightness increase
Channel 5	Inner LED AMBER: (0-9) OFF, (10-255) LED brightness increase
Channel 6	Outer LED RED: (0-9) OFF, (10-255) LED brightness increase
Channel 7	Outer LED GREEN: (0-9) OFF, (10-255) LED brightness increase
Channel 8	Outer LED BLUE: (0-9) OFF, (10-255) LED brightness increase
Channel 9	Outer LED AMBER: (0-9) OFF, (10-255) LED brightness increase
Channel 10	LED Random: (0-9) OFF, (10-255) LED random color, use together with channel 9.
Channel 11	LED Random (inner LED change color): (0-9) OFF, (10-255) LED random color
Channel 12	LED color change speed: (0-9) OFF, (10-255) LED color change speed increase
Channel 13	LED strobe: (0-9) OFF, (10-255) LED strobe increase
Channel 14	LED dimmer: (0-9) OFF, (10-255) LED brightness increase

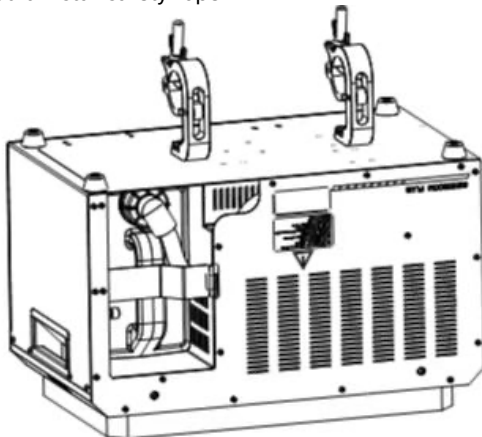
NOTE: Manual function disabled when DMX connected.

Δ Operation Guide

1. Installation

SONICBOOM® PLUS can be installed in any direction even upside down. But please watch out for the fog fluid leakage from the bottle.

For upside-down installation, please keep the fluid bottle vertical up. For safety, hanging installation should install safety rope.



2. Fill the machine

Fill the fluid bottle with fast dissipate fog fluid. Please not exceed the maximum fuel level when filling.

For best effect please use SHOWVEN® original fluid FX-S. Improper use of fluid will lead to machine malfunction. Warranty will be void if any other type of fog fluid is used.

3. Power ON SONICBOOM® PLUS

Connect the machine to suitable rated power supply. Make sure power supply is consistent with the rated voltage of the equipment, and the socket must be well grounded.

Turn on the machine and allow it to heat up.

There are Standard power mode and Low power mode switchable, based on the power supply circumstance operator can switch the power mode in the menu. When in Low power mode the heating up time will be longer.

4. DMX setting

Set DMX address for each machine. Connect machines with DMX cable in series.

Suggest to plug in a DMX terminator into the DMX out in last unit of machine.

If operate manually or with wireless remote (customized wireless version), there is no need to connect DMX cable.

5. Firing

Once the machine has reached operating temperature, the LCD display will show "T: 100%". Now the machine is ready for operation.

Manual operation: Press the " - / VOLUME" button to start making fog, press " + / STOP" to stop.

DMX control: please operate according to the DMX control table.

6. Power OFF and packing

After each show please turn off machine, allow it cool down before packing the machine.

Whenever ship the machine, please empty the fluid bottle to avoid fog fluid spill out from fluid bottle during delivery.

Δ FAQ

Fluid spill

Fluid spill because heat can't effectively transmit to fog fluid, leads to insufficient atomization of the fog fluid in the heating pipe.

Possible Reasons:

Use low quality fog fluid instead of SHOWVEN® original fog fluid.

Use inappropriate fog fluid. For different types of fog fluid, the atomization temperature is different.

Heating block pipe clog

Early symptom for heating aluminum pipe clog is fog fluid spill caused by insufficient atomization. Use other brand fluid or not make regular maintenance for a long time will definitely leads to pipe clog.

Solution for above problem:

Use SHOWVEN® original fog fluid.

Make regular maintenance. Use distilled water to wash the pump and pipe system by running the machine 10-15 times.

Δ Maintenance

1. Running the machine at least once per month.
2. Check the filter in fluid tank before each show, clean or replace it when it is necessary.
3. Clean machine regularly avoid dust, liquid accumulate on the machine.
4. Whenever storage or not use the machine for a period of time, please use distilled water to wash the pipe system by filling the fluid bottle with distill water and firing the machine several times.

Δ **Warranty Instructions**

- \ Sincere thanks for your choosing our products, you will receive quality service from us
- \ The product warranty period is one year. If there are any quality problems within 7 days after shipping out from our factory, we can exchange a brand new same model machine for you
- \ We will offer free of charge maintenance service for machines which with hardware malfunction (except for the instrument damage caused by human factors) in warranty period. Please don't repair machine without factory permission

Below situations NOT included in warranty service:

- \ Damage caused by use other type of fog fluid which is not SHOWVEN® FX-S.
- \ Damage caused by improper transportation, usage, management, and maintenance, or damage caused by human factors;
- \ Disassemble, modify or repair products without permission;
- \ Damage caused by external reasons (lightning strike, power supply etc.)
- \ Damage caused by improper installation or use;

For product damage not included in warranty range, we can provide paid service. Invoice is necessary when applying for maintenance service from SHOWVEN®.

SHOWVEN[®]



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