SONICBOOM™ PLUS SMOKEJET

USER MANUAL

▲Foreword

Thanks for choosing SHOWVEN SONICBOOM™ PLUS SMOKEJET.

Please read following manual carefully and completely before operating this product. Operate according to instructions is very important for safety, and can elongate the service life of the machine.

▲Product Description

1. Since the introduction of SMOKEJET, it is used in more and more shows to generate smoke column effect instead of cumbersome CO2 jet.
2. In order to solve the problem of lack of explosive force of present smokejet on market, SHOWVEN adopting pipeline integration technology on SONICBOOM, ensure stronger smoke burst.
3. Unique constant pressure system, guarantee consistent smoke effect.

▲Functional Characteristics

》Independent smoke column color change

》Patented pipeline integration technology, ensure 0.3s instant smoke burst

》Automatic constant pressure design, highly consistent smoke effect

》220V version SONICBOOM Support 1500W half power mode, easier main power supply.

》Over temp. alarm, no fuel alarm, over voltage alarm etc. multi safety status monitoring. Safer for use, easier for maintenance.

》Support manual operation on machine control panel

》DMX control, 14/11/1 channel switchable

》Suggest to use SHOWVEN original FX-S fog fluid, other fluid may lead to clog or malfunction.

》FX-S is quick dissipating fog fluid, the smoke dissipate in seconds, it is perfect choice for creating instant smoke column.

▲Technical Specifications

Model	SONICBOOM™ PLUS
Power Input	220V version: AC220V-240V 50/60Hz
	110V version: AC100V-120V 50/60Hz
Fuse:	15A/250V
Work Power	220V version: 3,000W/1500W (Half power mode)
	110V version: 2000W
LED Power	9W ×38PCS
Heat-up Time	220V version: 9min
	110V version: 11min
Max Continuous Output Duration	8s
Output	80000cuft/min
Max Output Height	10m
Tank Capacity	5L
Fluid consumption	3min/L
N.W.	24Kg
G.W.	26Kg
Machine Size	500×324×325 (mm)
Package Size	590×415×395 (mm)
DMX Channel	14/11/1 switchable
Consumable	FX-S

▲Safety Information

》 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 in consistent with the rated voltage of the equipment, and the socket must 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 advise.

》 Suggest use SHOWVEN original FX-S fog fluid, other fluid may lead to clog or malfunction. Please do not adding 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 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.

▲Operation

1. Please read above safety information carefully before operating the machine.

2. Fill the fluid tank with SHOWVEN original fog fluid, pay attention to the maximum fill level.

3. Connect the machine to suitable rated power supply, due to the work power is relatively high, please ensure power supply meets the requirement.

4. Turn on the machine, it heat up automatically, and shows "warm up" on LCD screen.

5. Once the machine has reached operating temperature, "Warm up" disappear and temperature reached at around 100%, pressure at around 100%. Now the machine is ready for operation.

6. After each firing, wait a few seconds to start the next firing, allow the pressure and temperature are stable.

▲Button Function
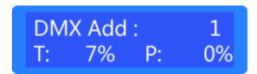
"MENU": switch through setup menu

"+": Parameter 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 long time.

a）Main Interface

First Line: DMX address, ":" blinks when there is DMX in signal.

Second Line: shows machine core temperature and pressure. The machine ready for operate only when both temperature and pressure value close to 100%.

Error information:

Error information	Explanation
E1 Pressure	Pressure faults, no fog fluid or pump error
E2 K temp. Sensor	Temperature sensor fault
E5 Temp Over	Circuit fault
E6 Heat Fail	Heating element damage or circuit fault or unstable voltage

Example of "TIMER" setting function in the menu:

① "set interval 10s"

② "set duration 2s"

SONICBOOM will repeat: firing 2s, interval of 10s, firing 2s, interval 10s…

Press "VOLUME" button under main interface, SONICBOOM activated and start to generate smoke, and press

"STOP" to stop the machine. This function disabled when SONICBOOM connected with DMX signal.

b) Setting Menu

Press "MENU" switch through setup menu.

Items	Value	Explanation
DMX 512 Address	1~499	Set DMX address
Power Regulation	Standard/Half Power	Setting working power for the machine
Color Optional	0~10	LED color set when manual firing
Channel Mode	1/11/14	DMX channel mode switch
Fog Volume	50%/80%/100%	Manual fog volume setup

C) Advanced Interface

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

Item	Value	Explanation
Manual Evacuate	ON/OFF	Manual Evacuate when pressure always insufficient
Interval Set	1-200	Interval time
Duration Set	1-8	Smoke output duration
Wireless Remote	ON/OFF	Wireless ON/OFF switch
Language	Chinese/English	Language switch
Manual Pump	ON/OFF	For maintenance

▲DMX Channel

1 channel mode

LED color determined by single channel, DMX value and related color as below:

Color	SMOKE OFF	LED OFF	RED	GREEN	BLUE	PINK	PURPLE	ORANGE	YELLOW	SKY BLUE	WHITE	Random	LED OFF
DMX value	0-5	6-40	41-60	61-80	81-100	101-120	121-140	141-160	161-180	181-200	201-220	221-235	236-255

11 channels mode.

Channels	Function
Channel 1	Firing: (0-9) OFF, (10-255) 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, (10-2551) 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	Firing: (0-9) OFF, (10-255) 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, (10-2551) 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
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.

▲E1 Pressure error explanation

In order to protect pump, SONICBOOM will running self check program to find out whether there are fog fluid in the fuel pipe.

1. E1 pressure error activation

When there is no fog fluid in the fuel tank, system can not reach preset pressure even turn on for a long time. The pump will stop working, and report E1.

2. Way to clear E1 error

① Fill the fog fluid tank, then restart the machine.

② Press "VOLUME" to reset.

③ DMX Channel 1, start a firing.

▲ Maintenance

1. Use SHOWVEN original fog fluid for the best effect of SONICBOOM. Warranty will be void if any other type fluid is used.

2. Don't disassemble the machine by unauthorized person, modifications to the machine are not allowed.

3. Excessive dust, liquid or dirt etc on the equipment will affect performance of the machine and cause poor heat dissipation. Remove dust with air compressor, vacuum or soft brush. Use a damp cloth to clean the case.

4. Before storing the machine, run distilled water through the system to help avoid condensing the pump or

heater.

5. To keep the best status and performance of machine, it is recommended to running the machine at least once per month.

6. After continuous use of 40h (or 1-2month), please use 35% vinegar with 65% distilled water to wash the pump and pipe system by running the machine 10-15 times.

▲Possible reason for the block of atomizer

For healthy and best status of machine, please do use SHOWVEN original fog fluid.

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

Possible Reason 1: Use other type of low quality fog fluid instead of SHOWVEN original fog fluid.
Possible reason 2: Use inappropriate fog fluid. For different types of fog fluid, the atomization temperature is different.

B. Heating aluminum 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.

C. Solution for above problem: Use SHOWVEN original fog fluid. Make regular maintenance (every 1-2month). Use 35% vinegar with 65% distilled water to wash the pump and pipe system by running the machine 10-15 times.

Warranty Instructions

▲Sincere thanks for your choosing SONICBOOM PLUS SMOKEJET, 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:

1. Damage caused by improper transportation, usage, management, and maintenance, or damage caused by human factors;

2. Disassemble, modify or repair products without Showven's permission;

3. Damage caused by external reasons (lightning strike, power supply etc)

4. Damage caused by improper installation or use;

For product damage not included in warranty range, we can provide paid service.

★Invoice and warranty card are necessary when applying for maintenance service from SHOWVEN.

Warranty Card

Product Name:		Serial No.	
Purchase Date:			
Tel:			
Address:			
Problem feedback:			
Actual problem:			
Maintenance detail:			
Service Engineer:		Service Date:	