

BURAN 1300



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If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Instructional icons



Read the manual



Indoor use only



This symbol indicating separate collection for electrical and electronic equipment



Warning: situations that could cause injury to yourself or others



Caution: situations that could cause damage to your machine or other equipment



Note: notes, usage tips, or additional information

Thank you for selecting our BURAN 1300, you already own the high-tech, professional DMX snow machine! Better read the manual thoroughly before operation, follow instruction will help you have a smooth handling with BURAN 1300 to achieve the most satisfactory snow effect, it will also assist unit to further prolong life time as a whole.



Warning! Like all electronic products, BURAN 1300 must be used with safety precautions in mind.

- Products for indoor use only. Keep away from liquids. Never operate in rain or in damp conditions.
- Use only appropriate, grounded electric power supply for your unit. See your product specification label for appropriate power supply. This appliance must be earthed.
- Disconnect from electric mains power supply when not in use, when filling the fluid tank, or when changing a fuse. Keep unit dry. If moisture or liquids enter the snow machine case, immediately disconnect power supply. Contact a service technician to determine safety for use.
- Machine must disconnect from electric mains power supply before cleaning, servicing or storing.
- Long-distance movement, please be sure to empty the tank.

- Without user-serviceable parts in the package, please contact your local agent or qualified technician for servicing.
- Without changeable structure by non-qualified user, please do not open the cover or have any change at will, otherwise, it may cause accident!
- Snow machine is for adult use. Keep out of reach of children. Never leave the unit running unattended.
- Keep case closed while operating. Put snow machine in drafty place, do not insert objects into air vents. Allow 20cm space or above around the machine for proper ventilation.
- Keep snow machine away from flames and flammable items. Use only high-quality snow fluid. Never put flammable substances into the tank.
- Never put any flammable material (lipid, gas, perfume etc.) into the tank, read the user manual thoroughly before operation.
- Better use our high-quality snow fluid, random use with other snow fluid may make bad effect, or causing damage to the machine.
- Keep sufficient snow fluid in tank. In the start of snow fluid detection state, if snow fluid is insufficient, the machine will automatically stop working.
- If any abnormal running occurs, stop it immediately, empty the fluid, and bring the done up unit (recommend original box) to your agent or dealer for servicing. Make sure all fluid is empty from the tank before moving or shipping.

- Never drink snow fluid. If ingested, call a doctor immediately. If fluid contacts eyes or skin, rinse skin thoroughly with water.
- Read user manual instructions thoroughly before operating. Follow the instruction. Never remove warning or informative labels from the unit.



Caution!

There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact your local dealer.



Particular Warning :

When the snow machine is idle and does not work, it is recommended to empty the tank and make a cleaning procedures: put the water into the tank, in accordance with spray snow operation to clean the interior of the snow machine until the water is almost no foam so far. Please note that the snow fluid long time placed in the snow machine, the snow fluid becomes sticky and the snow machine components are stuck, this could make the snow machine does not properly blow out of the snow. In case of this problem, please pour out the snow fluid and follow the cleaning procedures to clean it and fill the new snow fluid again, if it still fails, please contact the local dealer for processing.



Please note:

Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

Important

The wires in this mains lead are colored in accordance with the following code.



EU

Green and Yellow – Earthed (E)

Blue – Neutral (N)

Brown – Live (L)

Warning: This appliance must be earthed.

USA

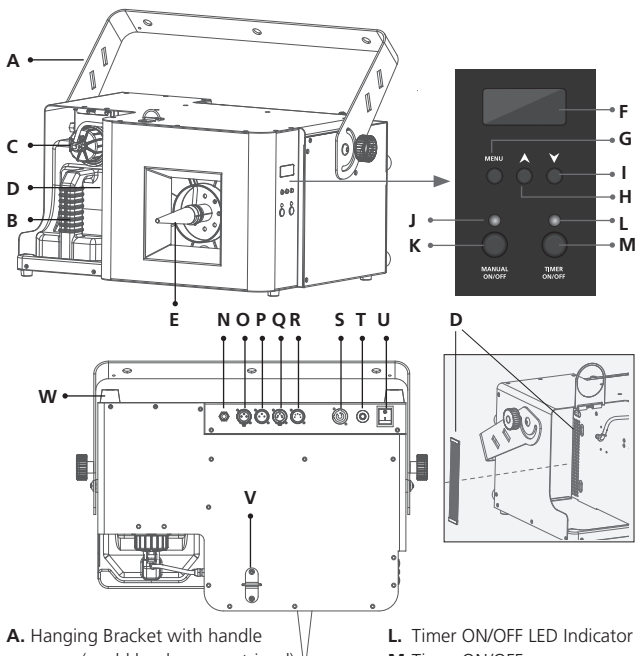
Green and Yellow – Earthed (E)

White – Neutral (N)

Black – Live (L)

Warning: This appliance must be earthed.

Figure1 BURAN 1300 Functions



A. Hanging Bracket with handle screw (could be done as a tripod)

B. Unique Anti-Spill Tank

C. Quick Connector

D. Inlet with Magnetic air filter

E. Snow Nozzle with cloth

F. LCD display

G. MENU

H. UP

I. DOWN

J. Manual ON/OFF LED Indicator

K. Manual ON/OFF

L. Timer ON/OFF LED Indicator

M. Timer ON/OFF

N. Control Socket Connection

O. DMX 3 PIN XLR Output

P. DMX 3 PIN XLR Input

Q. DMX 5 PIN XLR Output

R. DMX 5 PIN XLR Input

S. Power Input

T. NFB (No Fuse Breaker)

U. Power Switch

V. Suspension/Safety Ring

W. Pad

Description

- Realistic snow function, under this function the snow volume verifies in random, and the snowing effect looks like real and very natural.
- Unique design of 5.6 liter liquid tank let BURAN 1300 have no worry of liquid leaking when being operated up spray or side spray. Quick connector makes replacement direct and easier when performance is ongoing.
- Built-in automatic detection of liquid, if the liquid is too low, the LCD display will show a warning prompt; and the machine will stop working.
- When up spray, the hanging bracket could be done as a tripod, and be adjusted elevation angle from 50 to 70 degree to do special parabolic snow output, the snow output looks more natural and beautiful.
- Powerful and stable snow output control from 0-100%. Could flexible with the speed of the fan. Suitable for operation in any locations.
- 50% and 100% air volume adjustment. Quiet and smooth air volume adjustment let the spread of snow softer. 100% high fan speed let the snow be even and expand more quickly throughout the location.
- Special sound insulation design to achieve the effect of ultra-quiet.
- Multi-function operation control. Built-In timer control, manual control, remote control and DMX control.
- DMX on board, 3 DMX modes for choice; 1CH, 3CH, 5CH, operate by any additional DMX controller.
- Built-in function of timing control allows easy timing control interval and duration.
- Could be used with the VT-1 controller (optional) control. Simple and user-friendly design makes BURAN 1300 easier to use.
- Rugged high-quality shape designed with strong bracket. Liquid tank designed for quick fixing and with protection against getting loosen during transportation. All details are required.

Getting Ready

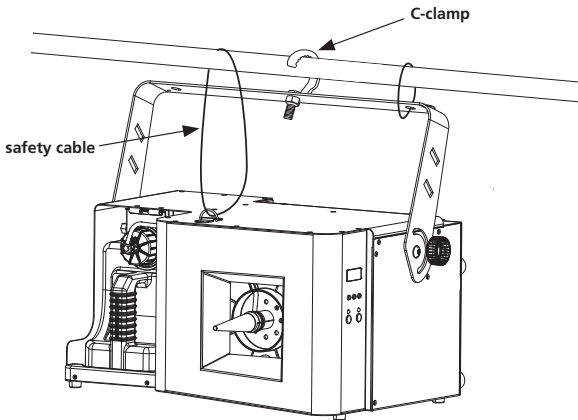
All products are thoroughly tested at the factory and shipped in perfect condition. If damage has occurred during shipping, or if components are missing, please contact your local dealer immediately.

Your package should include:

1. One BURAN 1300 Snow Machine
2. One powerCON cable
3. One product user manual

Mounting

BURAN 1300 is shipped complete, ready to use. The bracket is installed before shipping, the unit can be hung in any position. Fasten the snow machine onto firm trussing (Use a 20-kg rated or stronger C-clamp bolted onto the bracket, enhancing safety necessarily with safety cables). Allow enough space (around 20cm) on all sides for proper cooling.



Set Up

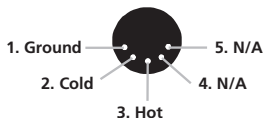
1. Open the shipping carton and carefully remove the snow machine unit from the shipping carton.
2. Be sure to remove packing material from around the snow machine, especially near the snow outlet.
3. Set the snow machine on a dry, flat surface.
4. Fill the snow liquid to the tank. Place the feeder tube with filter deep inside the full fluid tank (Figure1-B). Please use dealer recommended high quality snow liquid only.
5. Connect the quick connector with the liquid tank cap (Figure 1-C). Be sure of well connection.
6. Plug mains power cord from the snow machine into appropriate power supply socket.
7. Use LCD display & Function buttons for operating control, or connect DMX controller for setting.
8. Or firmly attach the remote control mechanism to socket (Figure1-N) on the back of the unit for simple operating.

DMX Connector Pin Assignment

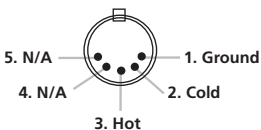
The machine provides a 3- or 5-pin XLR connector for DMX connection. The diagram below indicates pin assignment information.

5 pin XLR

XLR Male Socket



XLR Female Socket

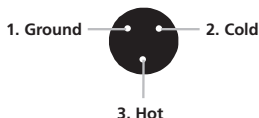


XLR Pin Configuration

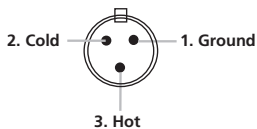
- Pin 1= Ground
- Pin 2= Data Compliment
(negative)
- Pin 3= Data True (positive)
- Pin 4= No use
- Pin 5= No use

3 pin XLR

XLR Male Socket



XLR Female Socket



XLR Pin Configuration

- Pin 1= Ground
- Pin 2= Data Compliment
(negative)
- Pin 3= Data True (positive)

Functions of the buttons



- 1. MENU:** Function switching button; then have the numerical value changed by using UP(▲) and DOWN(▼) buttons.
 - A. DMX Mode:** DMX mode selection. Single channel, 3 channels and 5 channels mode can be selected.
 - B. DMX Set:** Setting of DMX address. Range of address value: address=001~512.
Press UP/Down 1.5 seconds can change value continuously and fast, pressed UP/DOWN at the same time, value back to 1.
 - C. SNOW V/A:** Setting of snow modes, there are two modes; Fixed volume (=V) and random volume (=Auto).
 1. V001-V100: Fixed snow volume. The number after V is the concrete value. For example, V30 means 30%.
 2. A001~100: Interchange of snow volume every 5-15 seconds automatically, do not need to setting. The number after A is current snow volume. It changes at random.

- D. WIND H/F/A:** Setting of Air volume, there are three changes; Half =50%, Full=100%, and Auto. Auto is random effect, interchange of 50% and 100% of air volume every 2-5 minutes.
- E. Duration:** Setting duration of timing spraying snow (Duration=10~200s).
- F. Interval:** Setting interval of timing spraying snow (Interval=20~2000s).
- G.FLUID SCAN ON/OFF:** Setting of automatic inspection of fluid.
1. When this function is OFF, the machine cannot inspect volume of the fluid. This means that the machine will keep working even there's no fluid.
 2. When this function is ON, the machine starts this inspection function automatically. Some points need to be paid attention to:
 - The machine cannot draw fluid in the case of 20 to 35 seconds will automatically shut down.
 - When the machine detects that no fluid will stop, the LCD display will show "NO FLUID".
 - If the machine detects no fluid during operation, the machine stops working. At this moment, it is allowed to supplement fluid in the tank and then press button of Manual ON/OFF or button of Timer ON/OFF to let the machine enter working status again.
- H.Display Backlight Setting:** There are two modes. Long pressing of the MENU can interchange these two backlight modes.
1. Lighted mode: display appears "—FN20—".
 2. Power saving mode: display appears "—FN20—". Backlight lights up only when pressed. Few minutes later light off automatically.

2. ▲ : Button for increasing numerical value.
3. ▼ : Button for decreasing numerical value.
4. **MANUAL ON/OFF**: Short pressing: start or stop spraying snow.
Long pressing: switch air volume 50%/100%/AUTO.
5. **TIMER ON/OFF**: Short pressing: start or stop timing of spraying snow.
Long pressing: switch air volume 50%/100%/AUTO.



Set values are automatically saved.

Control priority order:

When both DMX console and VT-1 are connected to the machine, appears problem of priority among the panel control, DMX console and VT-1 controller. There's no apparent priority among the three controls. The one which has change action gets the priority of control.

1. If DMX values changes of each DMX channel by DMX console, the control priority is DMX console.
2. If wanting VT-1 to have the control priority, turn the knob to OFF then to ON.
3. Pressing Manual ON/OFF button or Timer ON/OFF button of the control panel to let it get the control priority.

Important: The one which controls the last action has the control priority.

Operation

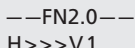
Plug mains power cord from the snow machine into appropriate power supply socket;

Regardless of the machine in which mode, the main display information as shown on the left:

--FN20--: shows lighted mode of the display.

H: shows the state of air volume, as shown in Figure H that air volume is 50%.

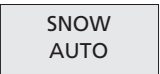
Vx: shows the current set of snow volume, as shown in Figure V1 that snow volume of 1%. Please do follow the required operating modes;

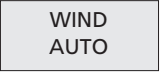


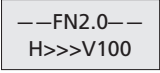
--FN2.0--
H>>>V1

Panel Continuous Snow Mode Operation

“Manual ON/OFF” control, when the external controller or DMX signal is not connected.

- 

1. Press MENU to select the SNOW status; use Up/Down button to switch fixed volume (=V1~100) and random volume (=Auto). The left icon is SNOW in Auto volume;
- 

2. Press MENU to select the WIND status; use Up/Down button to switch air volume. There are three changes: Half =50%, Full=100%, and Auto=random volume. The left icon is WIND (air volume) in Auto volume;
3. Press Manual ON/OFF button to start snow spray; LED upper the button flashes;
- 

4. The display information as shown on the left:
--FN20--: shows lighted mode of the display.
H: shows the state of air volume, as shown in Figure H that air volume is 50%.
Vx: shows the current set of snow volume, as shown in Figure V100 that snow volume of 100%;

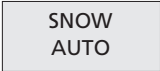

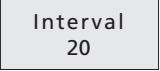
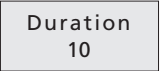
5. Press Manual ON/OFF button again to stop snow spray; LED upper the button off.



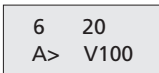
- When turn on the Manual ON/OFF button operation, still could use Up/Down button to control snow increase and decrease.
 - When turn on the Manual ON/OFF button operation, long pressing the Manual ON/OFF button to change air volume.
-

Panel Timing Snow Mode Operation

“Timer ON/OFF” control, when the external controller or DMX signal is not connected.

1.  Press MENU to select the SNOW status; use Up/Down button to switch fixed volume (=V1~100) and random volume (=Auto). The left icon is SNOW in Auto volume;
2.  Press MENU to select the WIND status; use Up/Down button to switch air volume. There are three changes: Half =50%, Full=100%, and Auto= random volume. The left icon is WIND in Auto volume;
3.  Press MENU to select the Interval status; use Up/Down button to switch the value of interval, the range is 20~2000 seconds;
4.  Press MENU to select the Duration status; use Up/Down button to switch the value of duration, the range is 10~200 seconds;
5. Press Timer ON/OFF button to start timing snow spray; LED upper the button flashes;

6.



The display information as shown on the left:
The upper left for the DURATION, shown as 6 seconds; the upper right for the INTERVAL, as shown in Figure 20 seconds

The left lower for air volume, as shown in the figure AUTO; the lower right for snow volume, as shown in Figure V100%;

7. Press Timer ON/OFF button again to stop timing snow spray; LED upper the button off.



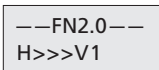
-
- When turn on the Timer ON/OFF button operation, still could use Up/Down button to control snow increase and decrease.
 - When turn on the Timer ON/OFF button operation, long pressing the Manual ON/OFF or Timer ON/OFF button to change air volume.
-

Remote Control Operation.....

For best result, use VT-1 wired controller.

1. Firmly attach the remote control mechanism to socket (Figure1-N) on the back of the unit;
2. Plug mains power cord from the machine into appropriate power supply socket;

3.



The appearance of the display, the snow volume and air volume controlled by VT-1;

4. Refer to your controller manual for operation details. (Appendix A)

DMX Control Operation

1. Connect the DMX 512 controller cable to the input socket (Figure 1-P or R) of the snow machine unit. Make sure the signal cable polarity is correct. When DMX socket receives effective DMX signals, the machine enter DMX control mode automatically;
2. There are 3 DMX modes for choice; 1CH, 3CH, & 5CH, please choose the DMX mode by MENU

3.

DMX MODE 1 CH

 Press MENU to select the DMX Mode status; use Up/Down button to switch 1CH, 3CH and 5CH. Save automatically after the set;

4.

DMX ADDR 5

 Press MENU to select the DMX ADDR status; press Up/Down button to set the DMX address. Save automatically after the set;

5. If desired, connect another snow machine: Plug one end of another signal cable in to the output socket (Figure 1-O or Q) on the back of the first BURAN 1300; plug the other end of the signal cable to the input socket (Figure 1-P or R) on the back of the second BURAN 1300. Follow the same procedure to link more snow machines, if desired; whole link is daisy chain;
6. Down. Refer to DMX channel chart in Figure 2 make related settings. Now start operating BURAN 1300 with DMX console.



Set values are automatically saved.

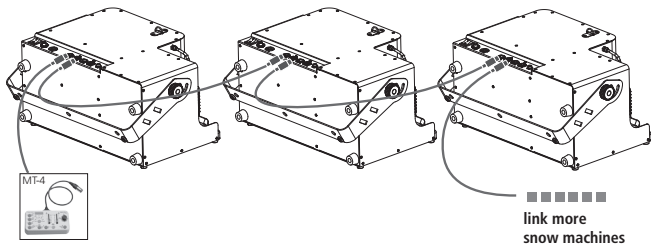



Figure 2 DMX Chart

1 CH

CH1	
DMX Value	Snow Volume
250-255	AUTO Random Snow
0-249	

*** The air volume setting needs to be set in the panel.

3 CH

CH1		CH2		CH3	
DMX Value	Snow Volume	DMX Value	Air Volume	DMX Value	ON/OFF
250-255	AUTO Random Snow	250-255	AUTO 50% or 100% random change	128-255	Snow ON
0-249	0-100%	125-249	100%	0-127	Snow OFF
		0-124	50%		

5 CH

CH1		CH2		CH3		CH4		CH5	
DMX Value	Snow Volume	DMX Value	Air Volume	DMX Value	ON/OFF	DMX Value	Duration	DMX Value	Interval
250-255	AUTO, Random Snow	250-255	AUTO, 50% or 100% random change	128-255	Snow ON	0-255	0-255 s	0-255	0-2550 s
0-249	0-100%	125-249	100%	0-127	Snow OFF				
		0-124	50%						

**Interval =0 means constant spraying snow.

**S=seconds

Troubleshooting

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps. If the problem persists, refer servicing to a qualified technician.

Power Connected but No Snow is Emitted:

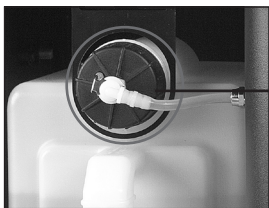
1. Check the power supply. Plug the unit into grounded electric power supply socket with proper voltage;
2. LCD display is lit and check if it can operate;
3. The control panel operation is correct;
4. Make sure the signal cable polarity is correct and good connection;
5. Check your controller if in correct connection, test the battery if power enough for wireless controller;
6. Check your DMX address setting;
7. If the pipe connected to the tank is in well condition;
8. Check the NFB (no fuse breaker) if jump off, if any, please re-press the breaker to do the reset action;
9. Keep sufficient fluid in tank.

Maintenance

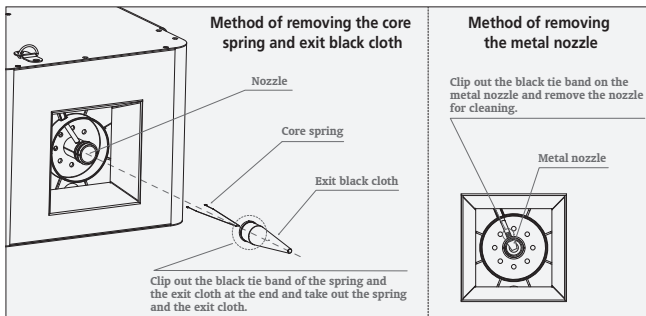
Before doing maintenance, please make sure that the power is cut, the power cord is unplugged, and the machine itself has cooled down.

The maintenance must be done by qualified person.

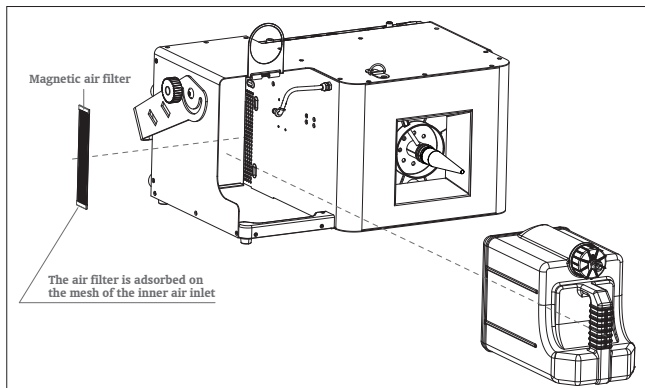
1. When the snow machine is idle and does not work, it is recommended to empty the tank and make a cleaning procedures: put the water into the tank, in accordance with spray snow operation to clean the interior of the snow machine until the water is almost no foam so far;
2. The fluid is not allowed to get dirty. Be sure to always clean or replace the caps on the tank (Replace the caps on the tank directly. This kit includes quick connector, cap, pipe and filter) and tight the cover of the snow machine tank immediately after filling;



3. Remove the black cloth of the nozzle, cleaning or replacement of the nozzle, the nozzle need to maintain unobstructed;



4. Prolonged use, the black cloth of the nozzle may become dirty, please clean or replace the new nozzle cloth;
5. Prolonged use, air filter of inlet next to the tank can accumulate dust, periodically remove the air filter to do the cleaning, after cleaning, be sure to dry the air filter after replacing it again.



6. Clean the metal cover with dry cloth.

Particular Warning!

When the snow machine is idle and does not work, it is recommended to empty the tank and make a cleaning procedures: put the water into the tank, in accordance with spray snow operation to clean the interior of the snow machine until the water is almost no foam so far. Please note that the snow fluid long time placed in the snow machine, the snow fluid becomes sticky and the snow machine components are stuck, this could make the snow machine does not properly blow out of the snow. In case of this problem, please pour out the snow fluid and follow the cleaning procedures to clean it and fill the new snow fluid again, if it still fails, please contact the local dealer for processing.

Product Specifications

Model No.	BURAN 1300
Name	BURAN 1300
Consumption	1250W
Fuse(120V)	NFB 16A
Fuse(230V, 240V)	NFB 9A
DMX512 CH.	1CH, 3CH, or 5CH
On Board Control	Manual snow and air volume adjustment Automatic snow and air volume adjustment Timing Snow
Low Fluid Shutdown	Yes
Fluid Consumption Rate (ml/min.)	500
Snow Highest Height (m)	10
Snow Longest Distance (m)	12
Display	LCD
Tank (L)	5.6
Hanging Bracket	YES
DMX Connectors	3P & 5P XLR
Remote Connector	1/4" JACK
Voltage	120V/60Hz; 230V,240V/50Hz
Dimensions/mm(LxWxH w/o bracket)	550*376*439mm
Weight (kg)	13.5
Controller(Included)	No
Controller (Optional)	VT-1

* Voltage is preset at the factory and may not be changed.

Appendix – A VT-1

Volume Adjustable Controller Operation:

The Snow Machine is designed with volume adjustable controller. Detail operation as bellows;

1. Firmly attach the remote control mechanism to socket (Figure1-N) on the back of the snow machine;
2. Plug mains power cord from the machine into appropriate power supply socket;
3. This controller knob can control the two functions: snow volume and air volume;

A. Snow volume adjustment:

- ① When the adjustment knob is turned on, turned counterclockwise to the end (note that the switch does not turn off at this time), snow spraying is shot down, turned clockwise, function of continuous snow spray is started;
- ② Turning the knob counterclockwise to decrease snow volume; clockwise to increase snow volume.

B. Air volume adjustment:

- ① Each time you switch the knob OFF-ON (there will be Kara sound), you can switch the different air volume;
 - ② The process of OFF-ON of the knob allows to switch the three different air volume. Specific changes are 50%, 100%, AUTO.
4. When the switch to the desired air volume, adjust the knob clockwise to increase the snow volume and counterclockwise to decrease snow volume.



AUTO = 50% or 100% change randomly

Appendix – A VT-1



A- 1/4" stereo jack

B- Knob

C- Green LED (Snow and Air volume output)

D- Red LED (power)

Controller power cord length: 3 m;

Connector: 1/4 "stereo jack;

Function: Air volume adjustment & ON/OFF.

Model	VT-1
Cable Length	3m
Effective Distance	N/A
Connector	1/4" stereo jack
Function	• ON/OFF • Volume adjustment
Dimension (LxWxH)	90 x 50 x 39 mm
Weight	0.257 kg

BURAN 1300

Save this instruction properly

All the information is subject to change without prior notice