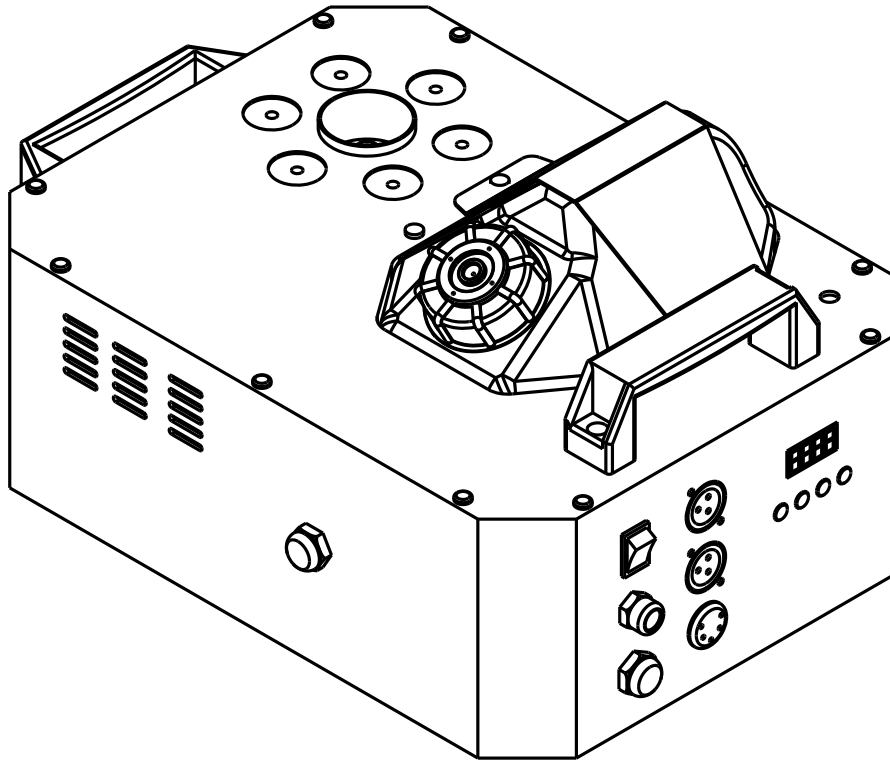


# COLOR JET

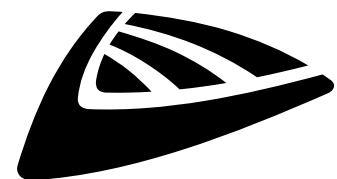


## ENGLISH Operation Manual

Other languages can be downloaded from:  
[WWW.JB-SYSTEMS.EU](http://WWW.JB-SYSTEMS.EU)



*Version: 1.1*



**JB SYSTEMS**



### **EN - DISPOSAL OF THE DEVICE**

Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

### **FR - DÉCLASSER L'APPAREIL**

Débarrassez-vous de l'appareil et des piles usagées de manière écologique conformément aux dispositions légales de votre pays.

### **NL - VERWIJDEREN VAN HET APPARAAT**

Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

### **DU - ENTSORGUNG DES GERÄTS**

Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

### **ES - DESHACERSE DEL APARATO**

Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su país.

### **PT - COMO DESFAZER-SE DA UNIDADE**

Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

# OPERATION MANUAL

Thank you for buying this JB Systems® product. To take full advantage of all possibilities and for your own safety, please read these operating instructions very carefully before you start using this unit.

## FEATURES

- Powerful vertical fogger with 6pcs 3Watt-RGB LED's.
- Simulates CO2 jet effects.
- Can be used upside-down to create downward jets.
- Controllable via:
  - 4 DMX channels
  - Wireless remote control (included)
- Equipped with a die cast 900W heater

## BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.

### Check the contents:

Check if the carton contains the following items:

- Operating instructions
- COLOR JET fog machine
- Wireless remote controller
- Wireless remote receiver

## SAFETY INSTRUCTIONS:



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:** To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user or the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



This symbol means: indoor use only.



This symbol means: Read instructions.



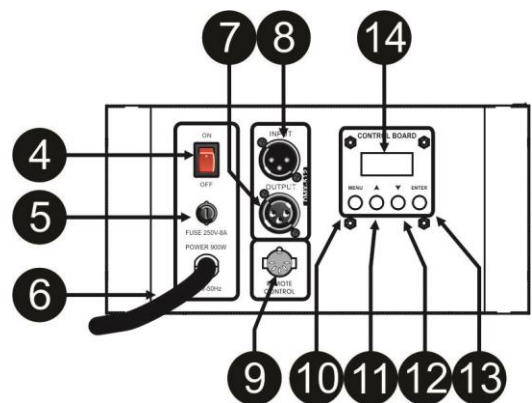
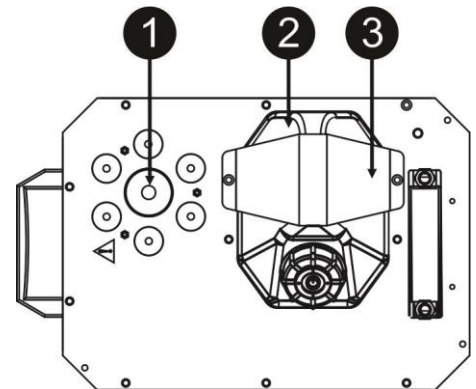
This symbol determines: the minimum distance from objects. The minimum distance between fogger output and objects must be more than 1 meter.

- To protect the environment, please try to recycle the packing material as much as possible.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.

- Don't place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- Locate the unit in a well ventilated spot, away from any flammable materials and/or liquids.
- Don't cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum save ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- The units' surface temperature may reach up to 85°C. Don't touch the housing with bare hands during its operation.
- Make sure to always place the unit on a stable surface, never install the fogger above the audience, a little liquid can always drip from the fog output.
- Allow the device about 10 minutes to cool down before you start servicing.
- Always unplug the unit when it is not used for a longer time or before you start servicing.
- Check that the available voltage is not higher than the one stated on the rear panel of the unit.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- This unit must be earthed in order comply with safety regulations.
- In order to prevent electric shock, do not open the cover.
- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
- The housing must be replaced if they are visibly damaged.
- Please use the original packing when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

**DESCRIPTION:**

1. **NOZZLE:** fog output. **WARNING: HOT!** Keep a minimum distance of 1m.
2. **FOG FLUID RESERVOIR:** Make sure that the fog fluid container is never empty during operation; this will damage the pump of the fogger.
3. **RESERVOIR TOP PLATE:** used to fix the reservoir in the machine
4. **POWER SWITCH:** used to switch the machine ON/OFF
5. **INPUT FUSE:** When the fuse is blown, first locate and solve the problem that caused the fuse to blow. When the problem is solved, replace a damaged fuse with a fuse of the same type and electrical specifications.
6. **MAINS CABLE:** to be plugged in a mains wall socket with earth connection.
7. **DMX OUTPUT:** 3-pin female connector, used to connect the fogger with the next unit in the DMX chain.
8. **DMX INPUT:** 3-pin male connector, used to connect the fogger directly to a DMX-controller or to the previous unit in the DMX chain.
9. **REMOTE CONTROL INPUT:** Used to connect the supplied wireless remote control receiver.
10. **MENU button:** used to browse the different functions in the menu
11. **UP button:** to increase the values shown on the display.
12. **DOWN button:** to lower the values shown on the display.
13. **ENTER button:** used to confirm your choice or to enter the setup mode of a function.
14. **DISPLAY** shows the various menus and the selected functions.



## MENU SETTINGS:

**REMARK: as long as the unit is warming up, you have no access to the menu.**

### [Addr] DMX512 Address Setting

Used to set the start address when the unit is used in a DMX chain.

- Press the MENU button until [Addr] is shown on the display.
- Press the ENTER to enter the address setting mode
- Use the DOWN and UP buttons to change the DMX address.
- Once the correct address is shown on the display, press the ENTER button to confirm.

### [rEno] Wireless Remote control setting

You can use the wireless remote control in 2 ways, depending on the setting you will make in this menu option.

1. **Option [oFF] can be used if you don't want a COLOR JET fogger to react to the commands of wireless remote controllers.**
  - Press the MENU button until [rEno] is shown on the display.
  - Press the ENTER button to enter the setup mode.
  - Use the DOWN and UP buttons to select [oFF]
  - Press the ENTER button to confirm.
  - This unit will not respond anymore to commands of wireless remotes.
  
2. **The 4 buttons of the remote will control 4 different colors.**
  - Press the MENU button until [rEno] is shown on the display.
  - Press the ENTER button to enter the setup mode.
  - Use the DOWN and UP buttons to select option [CH 5].
  - Press the ENTER button to confirm.
  - The 4 buttons of the wireless remote control will now activate these functions:
    - Button A = Fog + RED LEDs ON
    - Button B = Fog + GREEN LEDs ON
    - Button C = Fog + BLUE LEDs ON
    - Button D = Fog + RED + GREEN LEDs ON (Yellow color)
  
3. **The 4 buttons of the remote will control 4 different zones of foggers. In this mode you have select a zone + a color in the menu of each COLOR JET.**
  - Press the MENU button until [rEno] is shown on the display.
  - Press the ENTER button to enter the setup mode.
  - Use the DOWN and UP buttons to select the desired zone for your COLOR JET fogger.
    - [CH 1] = the fogger will be activated via Button A on the wireless remote controller.
    - [CH 2] = the fogger will be activated via Button B on the wireless remote controller.
    - [CH 3] = the fogger will be activated via Button C on the wireless remote controller.
    - [CH 4] = the fogger will be activated via Button D on the wireless remote controller.
  - When you have selected your zone, press the ENTER button to confirm your setting.
  - Once this is done, you will have to set the color that the COLOR JET will have to use when the unit is activated (see next menu option)

### [CoLo] Color selection for the Wireless Remote zone control

When you are using the wireless remote controller to control 4 different zones of units (see previous chapter) you have to set a color for each unit. This color will be automatically used when you activate your fogger via the wireless remote.

- Press the MENU button until [CoLo] is shown on the display.
- Press the ENTER button to enter the setup mode.
- Use the DOWN and UP buttons to select the desired color for this unit.
  - [Co 0] = NO Color.
  - [Co 1] = RED Color.
  - [Co 2] = GREEN Color.
  - [Co 3] = BLUE Color.
  - [Co 4] = RED + BLUE Color.
  - [Co 5] = GREEN + RED Color.

- [Co 6] = BLUE + GREEN Color.
- [Co 7] = RANDOM Color.
- Press the ENTER button to confirm your color selection.

## GENERAL OPERATING INSTRUCTIONS

- Put the fogger on a flat and very stable surface. Make sure that nobody can put their hands just in front of the output. The fog is very hot and can cause serious burnings!!!
- Make sure the fog liquid tank is not empty. Always use good quality fog liquid to fill up the tank. Close the tank immediately to prevent dirt to enter the reservoir!
- Make sure to plug the fogger in a mains wall socket with earth connection
- Switch the fogger on and wait for about 3 to 4 minutes. (warm up time)

**WARNING: NEVER use the machine with an empty reservoir. This can damage the pump !**

## FOG FLUIDS TO BE USED:

To ensure proper operation, it is very important to use the prescribed fluids. The use of other fluids may cause malfunctions and breakdowns.

Please check the serial number of your device to know the correct fluid:

- Serial number beginning with 1611 or 1701: only use **ANTARI FLG-5** fog fluid (order code: 04838).
- Serial number beginning with 1711 or higher: only use **ANTARI FLC-5** fog fluid (order code: 04834)

## WIRELESS REMOTE CONTROLLED:

- Connect the special 5pin connector of the wireless remote receiver to the [REMOTE CONTROL] input on the back of the machine.
- Fix the remote receiver with its magnetic surface to the machine.
- Pull out the antenna of the wireless remote controller.
- The functions of the 4 buttons depend on the working mode you have set in the machines:
  - **If you have selected [CH 1], [CH 2], [CH 3] or [CH 4] and a specific color:**
    - Button A = Activates foggers set to [CH 1]
    - Button B = Activates foggers set to [CH 2]
    - Button C = Activates foggers set to [CH 3]
    - Button D = Activates foggers set to [CH 4]
  - **If you have selected [CH 5] in the menu:**
    - Button A = Fog + RED LEDs ON
    - Button B = Fog + GREEN LEDs ON
    - Button C = Fog + BLUE LEDs ON
    - Button D = Fog + RED + GREEN LEDs ON (Yellow color)
  - **If you have selected [oFF] in the menu, the unit will not react to the commands of the wireless remote controller.**



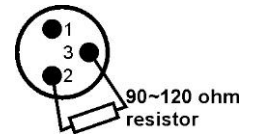
## DMX-OPERATION:

**Important:** The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.

### Electrical installation:

- The DMX-protocol is a widely used high speed signal to control intelligent light and other equipment. You need to "daisy chain" your DMX controller and all the connected units with a good quality balanced cable.
- Both XLR-3pin and XLR-5pin connectors are used, however XLR-3pin is more popular because these cables are compatible with balanced audio cables.
  - Pin layout XLR-3pin: Pin1 = GND ~ Pin2 = Negative signal (-) ~ Pin3 = Positive signal (+)
  - Pin layout XLR-5pin: Pin1 = GND ~ Pin2 = Negative signal (-) ~ Pin3 = Positive signal (+) ~ Pins4+5 not used.

- To prevent strange behavior of the light effects, due to interferences, you must use a 90Ω to 120Ω terminator at the end of the chain. Never use Y-splitter cables, this simply won't work!
- Make sure that all units are connected to the mains.
- Each unit in the chain needs to have its proper starting address so it knows which commands from the controller it has to decode. In the next section you will learn how to set the DMX addresses.
- This COLOR JET unit is using 4 DMX channels.



**DMX CHART:**


**NOTE: Channels 2, 3, and 4 can not be combined.**

- Channel 3 has priority on channel 4
- Channel 2 has priority on channels 3 and 4

Channel:	Value:	Function:
1	000-005	NO fog output
	006-255	FOG output ON
2	000-005	No Color
	006-085	RED
	086-170	GREEN
3	171-255	BLUE
	000-005	No Color
	006-085	RED + BLUE
	086-170	GREEN + RED
4	171-255	BLUE + GREEN
	000-005	No Color
	006-085	RANDOM Color

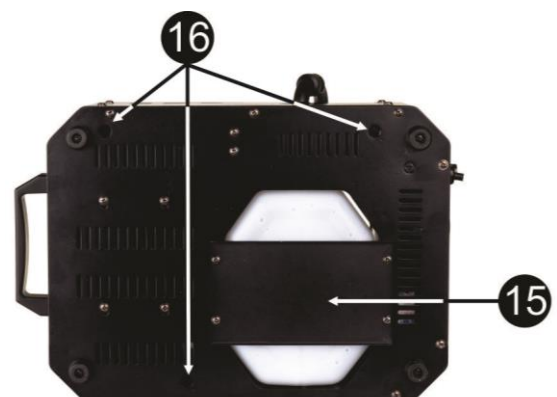
**OVERHEAD RIGGING**

**Important:** The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.



**Even though this fogger can operate in upside down position, NEVER install and use this fogger over areas where persons are walking, dancing or sitting. In case of malfunction or use of inferior fog liquid, very hot oil droplets may fall down and cause injury!**

- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well-ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 50cm** from surrounding walls.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- Always use a certified safety cable that can hold 12times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert



before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.

If you want to hang the COLOR JET upside-down to create downward fog jets, you have to modify the position of the reservoir.

- Remove the 2 screws of the top plate that is holding the reservoir (#3).
- Remove the cap & tube of the reservoir
- Remove the reservoir
- Turn the machine upside-down
- Remove the base plate that has to hold the reservoir (#15)
- Turn the machine again in its normal position and fix the base plate on this side, where reservoir top plate was originally fixed.
- Turn the machine upside-down again and install the (optional) mounting clamps by using the 3 M10 fixation points.(#16)
- Install the reservoir in the machine
- Install the top plate of the reservoir.
- Ready.

## **MAINTENANCE**

- Switch off the unit, unplug the mains cable and wait until the unit has been cooled down.

### **During inspection the following points should be checked:**

- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housings, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.

### **Cleaning the fogger:**

To prevent obstructions in the heater, pump and tubes, the fogger should be cleaned on a regular basis: every 100h of continuous operation is a good reference.

- Switch the fogger off
- Remove the nozzle (metal part where the fog leaves the fogger)
- Remove the fog liquid from the tank
- Fill the tank with about 1liter of a solution containing 80% distilled water and 20% white vinegar.
- Switch the fogger on and wait for about 8minutes (warm up time)
- Put the fogger in continuous operation mode until the tank is empty
- Put the nozzle back in place
- Remove the eventual residues of the cleaning solution and refill the tank with fog liquid.

***Remark: cleaning should be done outside; an awful smell is produced by the vinegar solution!***

**Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!**



## **SPECIFICATIONS**

This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

This device has been designed to produce decorative effect lighting and is used in light show systems.

<b>Mains Input:</b>	AC 240V, 50Hz
<b>Heater:</b>	900 Watt
<b>Power Consumption:</b>	950 Watt
<b>DMX Channels:</b>	4
<b>Fuse:</b>	T8A/250V (slow blow 6x30mm)
<b>Warm up time:</b>	4 min
<b>Tank size:</b>	2,5L
<b>LEDs:</b>	6x 3W RGB
<b>Size:</b>	340 x 250 x 130 mm
<b>Weight:</b>	5.5 kg

**All the information is subject to change without prior notice**

You can download the latest version of this user manual on our website: [www.jb-systems.eu](http://www.jb-systems.eu)







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