



# User Manual

## CO2 LED Jet Switchable

- **Weight:** 18 Lbs (pounds) (8.16Kg)
- **Voltage:** 110/220 VAC 50/60Hz
- **Pressure Rating:** 0-1000 psi / 69Bar
- **Noise Level:** 110 decibels
- **Power:** 300 watts
- **Color:** Matt Black
- **Material:** ABS/Brass/Steel
- **Operation:** DMX 512 & Power On/Off
- **Distance:** 20-30 feet (8-10 meters)
- **LED Spec:** 18 LEDs, 1w/3w, RGB
- **Dimensions:** 18.5" x 14.57" x 12.2" (47cm x 37cm x 31cm)
- **Hardware:** 2250 psi Hose with attached CO<sub>2</sub> tank connector fitting.
- **Description:** This is the switchable LED version of the most popular Cryo Jet you may have seen at nightclubs or concerts. This CryoFX LED Cryo Jet features two modes, DMX and Standard On/Off



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Unpack CryoFX CO<sub>2</sub> LED Jet Switchable, hose, and DMX cable. Locate fitting on both hose and LED Cryo Jet as pictured below. Pull back the outside part (ring) of the fitting on the LED Cryo Jet and insert the hose fitting into the counterpart fitting on the LED Cryo Jet as shown below. Let go of the ring as you push both fittings together until the outer ring snaps back forward. This will lock the hose and LED Cryo Jet together. Gently pull both fittings apart to make sure the hose is attached to the LED Cryo Jet. Locate knobs on both sides of LED Cryo Jet and turn tight after adjusting angle of Cryo Jet.



## Standard On/Off Mode Instructions (non-DMX):



Select "ON" function from 3 way switch to place the LED Cryo Jet into the standard operation mode. When in this mode, any time power is applied to the unit the jet will spray CO<sub>2</sub> until the power is turned off or the user places the 3 way switch shown into the "OFF" (Center) position. The LEDs may not light up in this mode as this mode is used for CO<sub>2</sub> Jet only.

## DMX Mode Instructions:



Locate DMX cable and insert end into DMX "IN" port as shown to the left. Then select "DMX" function from 3 way switch to place the LED Cryo Jet into the DMX operation mode, as shown to the right. When in this mode, the user has two options; 1. To control the LED lights only via internal mode selection using the control panel, or 2. To control the LED lights and Cryo Jet via external DMX controller. To use the internal mode for LED light control only, press the MENU button to cycle through the following modes, stopping on the mode you intend to use (press ENTER to apply settings).



**1A##: Color Change - Switch**  
Rotates through preset colors changing them from one color to the next without dimming or pausing in between changes. Use the arrow up/down buttons to adjust the speed whereas 0 is slow and 10 is fast.



**2A##: Color Change - Fade In/Out**  
Rotates through preset colors changing them from one color to the next, dimming in between changes. Use the arrow up/down buttons to adjust the speed whereas 0 is slow and 10 is fast.



**3A##: Color Change - Blend**  
Rotates through preset colors changing them from one color to the next, blending in between changes. Use the arrow up/down buttons to adjust the speed whereas 0 is slow and 10 is fast.



**4A##: Color Change - Cycle**  
Continuously rotates through preset colors cycling through each previous mode (1A##, 2A##, 3A##, 1A##, 2A## etc etc. Use the arrow up/down buttons to adjust the speed whereas 0 is slow and 10 is fast.



**1U##: Sound Activation - Color Flash**  
Rotates through preset colors changing them from one color to the next based on sound. Lights turn off in between color change. Use the arrow up/down buttons to adjust the speed whereas 0 is slow and 10 is fast.



**2U##: Sound Activation - Color Switch**  
Rotates through preset colors changing them from one color to the next based on sound. Lights switch for color change and do not dim. Use the arrow up/down buttons to adjust the speed whereas 0 is slow and 10 is fast.



**FL##: Strobe - Flash**  
Strobes LEDs. Use the arrow up/down buttons to adjust the speed whereas 0 is slow and 10 is fast.



**SLAV: Slave**  
Set unit to this setting when running multiple units together. The main unit will not utilize this setting and this is only for "Slave" units.



**R### (Red) - G### (Green) - B### (Blue)**  
Each of these modes allows user to adjust individual light settings (0-255) for each of the primary colors Red, Green, Blue, furthermore offering the ability to create almost any color desired.



## DMX Mode Instructions Continued...



To control both LED lights and Cryo Jet externally, press 3-way switch upwards to "DMX" mode. Press the MENU button until "d001" displays on the control panel as shown to the right. (This should be the first selection that appears when placing switch in "DMX" mode. Use arrow up/down buttons to set DMX address (d001-d512). If controlling only one unit or multiple units on same channel, set DMX address to "d001".



Using an external DMX controller, please refer to the channel assignments and functions listed below.

- Channel 1: Cryo jet on/off function. (0-9) Off (10-255) On
- Channel 2: Red (0-9) Off (10-255) On whereas 10=dimmest 255=brightest
- Channel 3: Green (0-9) Off (10-255) On whereas 10=dimmest 255=brightest
- Channel 4: Blue (0-9) Off (10-255) On whereas 10=dimmest 255=brightest
- Channel 5: When used in conjunction with Channels 2, 3, or 4 -> Strobe (0-255) whereas 0=Slow & 255=Fast
- Channel 6: Color Mixing (0-34) Off  
(35-69) Color Change - Rotates through colors without dimming or fading  
(70-104) Color Change - Rotates through colors dimming to black in between colors  
(105-139) Color Change - Rotates through colors blending colors during change  
(140-174) Color Change - Rotating through previous 3 color change patterns  
(175-185) Sound Activation - Rotates through colors, lights only illuminate when sound activates them  
(186-255) Sound Activation - Rotates through colors, lights stay illuminated and switch when sound activates them
- Channel 7: Speed control when used in conjunction with Channel 6 -> Speed (0-255) whereas 0=Slow & 255=Fast

## Connecting to the CO<sub>2</sub> Tank:

Locate end of hose with the fitting shown below. Take the piece of tape off the top of the fitting and throw it away. Make sure the plastic O-ring stays inside the fitting. Screw fitting onto tank with your hand until it's tight. Then take an adjustable wrench, as shown below, and tighten the fitting onto the tank fairly tight. Do not tighten too tight as damage or breakage may result.



SLOWLY turn the valve on top of the tank. The hose may move as the liquid CO<sub>2</sub> enters the hose and makes it stiff. Check for any leaks you may see as you open the valve more. If you notice leaks, turn off the valve and locate leaks. Once located contact CryoFX. When finished using, turn valve on top of tank in opposite direction as the last time you turned it so as to close the valve. Activate Cryo Jet a few more times to let the remaining CO<sub>2</sub> in the hose out.



**WARNING: Co2 Blasts cannot exceed 3 seconds in length for each blast. Two blasts cannot occur within 5 seconds of eachother. Power must be connected last as to ensure safety.**

DISCLAIMER: CryoFX.com is not responsible or held liable for any damages resulting from use of this equipment or any CO<sub>2</sub> equipment. The equipment listed within is for special effects purposes only and should be used only by professionals or those who fully understand the use, operation, effects, and dangers of all equipment listed herein. All equipment should be tested before actual use in front of an audience. Any other use other than what is specified is prohibited and can cause extreme dangers to anyone in the vicinity. CO<sub>2</sub> Jets and CO<sub>2</sub> guns should never be pointed directly at people closer than 5 feet in distance. CO<sub>2</sub> Jets and CO<sub>2</sub> Guns should never be pointed at someones face for an extended period of time as CO<sub>2</sub> displaces oxygen therefore suffocating those in the direct path. Again, we, CryoFX.com are NOT responsible or held liable for misuse or damages resulting from the equipment listed herein.

**Is there a warranty on this Cryo Jet?**

Yes, there is 1 year limited warranty which will cover operational and mechanical defects only.

**Can I disconnect the Cryo Jet from the hose during use?**

NO, never disconnect the Cryo Jet from the hose while there is pressure in the line or the valve is in the on position on the CO<sub>2</sub> bottle.

**Are tools needed before I use this Cryo Jet?**

Yes, one crescent wrench or adjustable wrench is needed to connect the hose to the CO<sub>2</sub> tank.

**What kind of tank or bottle do I need?**

You need one of two tanks. The most standard of the two tanks needed is a high pressure Carbon Dioxide CO<sub>2</sub> siphon tube tank, also called a "Siphon Tank" or "Dip Tube Tank". These tanks come in sizes ranging from 5 pounds to 100 pounds. The siphon tank has a tube that drops down the center to the bottom of the tank to dispense the liquid CO<sub>2</sub>. Make sure you ask for a Siphon tank as a standard CO<sub>2</sub> tank will not work. The alternative type of tank used is a Dewar tank, which is a larger low pressure refrigerated tank containing much more CO<sub>2</sub> but at a lower pressure of 350psi or less. Please see tank illustration in the "Tanks" section under "Product Knowledge" tab on [www.CryoFX.com](http://www.CryoFX.com) for tank sizes and info.

**Where can I buy Carbon Dioxide, also called CO<sub>2</sub>?**

You can find CO<sub>2</sub> gas at a local welding supply shop or Gas supplier (not the gas you put in your car). AIRGAS is a national company which provides CO<sub>2</sub>.

**How long will the tanks last?**

This varies on many factors including the length of the hose, the length of the blasts and most importantly, the size tank you are using. The average blast is 2 seconds long, and a High Pressure 50 pound Siphon Tank has 1.5 min of effect and a Low Pressure Dewar Tank has about 10 minutes of effect. For more tank sizes, tank usage lengths and more info, please see tank illustration in the "Tanks" section under "Product Knowledge" tab on [www.CryoFX.com](http://www.CryoFX.com).

**Can CO<sub>2</sub> cool down an area?**

Yes, between 20-35% depending how it is used. A solid stream is colder directly in front than it is towards the outside of the stream of the blast.

**What is a good hose length for my Cryo Jet?**

The best length for the hose is between 20 feet and 30 feet. Any hose longer than 50 feet will not work as effeciently as a shorter hose therefore minimizing the output of the effect.

**Can I connect multiple hoses or order longer hoses?**

Yes. we can custom make any size hose with any number of quick connect fittings or standard fittings so you have the future option to shorten or lengthen your hose. We can also create custom hoses for two or more Cryo Jets to run off the same tank or one Cryo Jet to run off multiple tanks. Please email with any inquiries.

**How far or how high do the plumes (clouds) of CO<sub>2</sub> travel when exiting the Cryo Jet?**

The CO<sub>2</sub> plumes will reach at least 20 feet to 30 feet. The humidity in the air directly affects the visibility in relation to length and density of the CO<sub>2</sub> cloud. The more the humidity, the better and farther the white cloud of CO<sub>2</sub> can be seen.

**Is it dangerous to shoot the CO<sub>2</sub> directly at people?**

Yes. CO<sub>2</sub> displaces oxygen therefore making it very difficult to breath in the immediate path of the CO<sub>2</sub> plume cloud. Avoid spraying it directly at people who are closer than 6 feet in distance. CO<sub>2</sub> is also very cold, up to -40 Degrees F. and could easily freeze skin and body parts.

**While using my CryoFX CO<sub>2</sub> LED Jet, the white plume stopped and only a loud noise is coming from it.**

If your system is connected properly and you only get noise when you squeeze the handle and no white clouds of CO<sub>2</sub> come out, your tank is probably empty. Even though there is still gas and pressure inside, the liquid CO<sub>2</sub> has turned into gas inside the tank and will be completly empty soon. This is a sign you have used all the CO<sub>2</sub> in the tank and you will need to get it refilled.

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