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MOKA SFX DMX 512 Cryo CO2 Cannon

MOKA SFX DMX 512 Cryo CO2 Cannon User Manual

Model: DMX 512 Cryo CO2 Cannon

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1. SAFETY INFORMATION AND WARNINGS

Read all safety warnings and instructions carefully before operating this device. Failure to follow these instructions may result in serious injury or property damage.

- **Keep a Safe Distance:** Always maintain a certain distance from the nozzle while installing and operating the machine.
- **Do Not Aim at Persons:** Never aim the nozzle directly towards any person when the machine is working.
- **Adult Supervision Required:** This appliance must be grounded. Use only with adult supervision.
- **Outdoor Use Only:** Designed for outdoor use.
- **Keep Away from Children:** Keep all serviceable parts away from children.
- **Ventilation:** Always use in a well-ventilated area.
- **CO2 Tank Handling:** Ensure CO2 tanks are secured and handled according to manufacturer guidelines.
- **Pressure Release:** Before disassembling, always turn off the CO2 bottle valve first, allow residual gas in the pipe to escape, then turn off the power, and finally disconnect the gas bottle.



Image 1.1: Control panel displaying important safety warnings and connection ports.

2. PRODUCT OVERVIEW

The MOKA SFX DMX 512 Cryo CO2 Cannon is a professional-grade special effects machine designed to produce powerful CO2 fog jets for stage performances, DJ events, and other entertainment applications. It features adjustable spray angle and multiple control modes for versatile operation.

Key Features:

- Adjustable Spray Angle:** The CO2 jet machine offers a 180° adjustable spray angle for flexible effect direction.
- Safety Channel:** Incorporates a safety channel that must be activated to prevent accidental spraying.
- Quick Connectors:** Built-in quick connectors ensure a swift, secure, and leak-free connection to the CO2 tank.
- High-Pressure Valve:** Equipped with a 1400 psi upgraded valve, capable of spraying CO2 fog 10-12 meters high.
- Ice-Free Operation:** Produces strong CO2 fog without generating ice.



Image 2.1: The MOKA SFX DMX 512 Cryo CO2 Cannon, illustrating its compact design and main components.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Voltage	AC110V, 60HZ / 50HZ
Power	30W
Hose Length	20ft (Length customizable)
Hose Pressure Valve	2600 psi
Control Mode	DMX512 and Manual Control
Spray Time	Continuous injection (Suggestions for 20 seconds)
Spray Angle	0-180 degree adjustable
Max Pressure	1400 psi
Spray Height	10-12m
Gross Weight	5.8kg

Feature	Specification
Shipping Weight	9.5kg
Product Size	30 x 22 x 16 cm
Certifications	CE/ROHS/FCC

4. SETUP INSTRUCTIONS

Follow these steps to properly set up your MOKA SFX DMX 512 Cryo CO2 Cannon:

- 1. Position the Unit:** Place the CO2 Cannon on a stable, level surface in the desired location. Ensure there is adequate clearance around the nozzle and that the spray path is clear of people and obstructions.
- 2. Connect CO2 Hose to Tank:** Connect one end of the provided CO2 hose to your CO2 gas bottle. Ensure a tight and secure connection.
- 3. Position CO2 Bottle:** Lay the CO2 bottle down flat in a secure position to prevent it from tipping over.
- 4. Connect CO2 Hose to Machine:** Connect the other end of the CO2 hose to the quick-connector inlet on the CO2 Cannon. Ensure this connection is also tight and secure.
- 5. Open Gas Bottle Valve:** Slowly and carefully turn on the valve of the CO2 gas bottle. Listen for any leaks.
- 6. Connect Power and DMX (Optional):**
 - Connect the power cable to the machine's 'POWER IN' port and then to a suitable power outlet (AC110V).
 - If using DMX control, connect a DMX cable from your DMX console to the 'DMX IN' port on the CO2 Cannon. If linking multiple units, connect from 'DMX OUT' of the first unit to 'DMX IN' of the next.



Image 4.1: Rear panel illustrating the 'POWER IN', 'POWER OUT', 'DMX IN', and 'DMX OUT' ports for connectivity.



Image 4.2: Side view highlighting the adjustable angle mechanism of the CO2 nozzle.

5. OPERATING INSTRUCTIONS

The MOKA SFX DMX 512 Cryo CO2 Cannon can be operated via DMX512 control or manual control.

5.1. Manual Control

1. Ensure the CO2 gas bottle valve is open and the unit is powered on.
2. Set the DMX/OFF/ON switch to 'ON' for manual operation.
3. Press the manual trigger button on the control panel to activate the CO2 jet. Release to stop.
4. **Important:** Observe the recommended continuous injection time (e.g., 20 seconds) to prevent freezing or damage to the unit.

5.2. DMX512 Control

1. Ensure the CO2 gas bottle valve is open and the unit is powered on.
2. Set the DMX/OFF/ON switch to 'DMX'.
3. Configure the DMX address on the unit's control board using the up/down buttons. Refer to your DMX console's manual for channel assignments.
4. Activate the corresponding DMX channel on your console to trigger the CO2 jet.

5. Safety Channel: The unit features a safety channel. Ensure this channel is activated (e.g., set to a specific value) on your DMX console before the CO2 jet can be triggered. This prevents unintended activation.



Image 5.1: Angled view showing the control board with LED display and the DMX/OFF/ON switch.



Image 5.2: Example of the CO2 Cannon in operation, creating dramatic fog effects.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your CO2 Cannon.

- **Cleaning:** Periodically wipe down the exterior of the unit with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Nozzle Inspection:** Regularly check the CO2 nozzle for any obstructions or ice buildup. Ensure it is clear before operation.
- **Hose and Connections:** Inspect the CO2 hose and all connections for signs of wear, damage, or leaks before each use. Replace any damaged components immediately.
- **Storage:** When not in use, store the unit in a dry, cool place, disconnected from the CO2 tank and power supply.
- **Professional Service:** For any internal repairs or complex issues, contact qualified service personnel. Do not attempt to open the unit yourself.

7. TROUBLESHOOTING

If you encounter issues with your CO2 Cannon, refer to the following common problems and solutions:

- **No CO2 Jet:**

- Ensure the CO2 gas bottle valve is fully open.
- Check all hose connections for tightness.
- Verify the unit is powered on and the DMX/OFF/ON switch is set correctly (ON for manual, DMX for DMX control).
- If using DMX, confirm the DMX address is correct and the safety channel is activated on your console.
- Check if the CO2 tank is empty.

- **Weak CO2 Jet:**

- Ensure the CO2 tank has sufficient pressure.
- Check for any partial obstructions in the nozzle.
- Verify the hose is not kinked or damaged.

- **Leaks at Connections:**

- Tighten all connections securely.
- Inspect O-rings and seals for damage and replace if necessary.

- **Unit Not Powering On:**

- Check the power cable connection to both the unit and the power outlet.
- Verify the power outlet is functional.
- Check the unit's power switch.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact MOKA SFX customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

MOKA SFX Store: [Visit the MOKA SFX Store on Amazon](#)

	<p>CryoFX Cryo Swing Jet User Manual and Specifications</p> <p>User manual for the CryoFX Cryo Swing Jet, detailing its specifications, setup instructions, operation, safety guidelines, and frequently asked questions for special effects.</p>
	<p>NPC-30 Neon Paint Cannon Setup Instructions Atlanta Special FX</p> <p>Step-by-step setup instructions for the Atlanta Special FX NPC-30 Neon Paint Cannon, including items included, assembly, and safe operation guidelines.</p>
	<p>America Cryo Subzero Operating Manual and Warranty Information</p> <p>Comprehensive operating manual and warranty details for the America Cryo Subzero cryo diffuser, covering device description, technical specifications, installation, operation, safety precautions, maintenance, and warranty conditions.</p>
	<p>Velleman VM116 USB Controlled DMX Interface User Manual</p> <p>Comprehensive user manual for the Velleman VM116 USB Controlled DMX Interface, detailing features, specifications, setup, software installation, stand-alone testing, and safety instructions. This document provides guidance for controlling DMX fixtures via a PC and USB, as well as standalone operation.</p>
	<p>CryoFX Low Pressure System Operating Instructions</p> <p>Detailed operating instructions for the CryoFX Low Pressure CO2 System, covering setup, before use, and after use procedures for optimal performance and safety.</p>
	<p>Chromateq Lighting Control Solutions</p> <p>Chromateq offers a comprehensive range of lighting control solutions, including offline devices, software, and upgrades for various applications in entertainment and architectural lighting. Explore their product lines like PRO DMX 2, PIXXEM, WI-LIGHT 2, CLUB, CLUB-E, CQSA, CQSA-E, DIN-E, TOUCH, and SLIM series.</p>