MAGMATIC

CRISP MAX

User Manual

US SKU#: PSC225
UPC#: 810008261507

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DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online.
Please check www.elationlighting.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channel Mode	Notes
10/20/20	1	1.1	1 / 3 / 5 Channels	Initial Release
10/27/20	2	1.1	1 / 3 / 5 Channels	Updated Set Up & Specifications

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.
This product is intended to be used by professionally trained personnel only and is not suitable for private use.

UNPACKING

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event that damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS

Twist-locking Power Cable (x1)
Road Case (x1)
Snow Cannon (x1)
10-meter Hose (x1)
10-meter Power Extension Cable (x1)

CUSTOMER SUPPORT

Contact **MAGMATIC** customer service for any product related service and support needs.
Also visit forums.elationlighting.com with questions, comments, or suggestions.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-3322 | Fax 323-832-9142 | sales@magmaticeffects.com

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
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REPLACEMENT PARTS: Please visit parts.elationlighting.com

IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF. DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

LIMITED WARRANTY (USA ONLY)

A. Magmatic Effects hereby warrants, to the original purchaser, Magmatic products to be free of manufacturing defects in material and workmanship for a period of two years (730 days) from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Magmatic Effects factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Magmatic Effects will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Magmatic Effects shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Magmatic Effects concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Magmatic Effects factory unless prior written authorization was issued to purchaser by Magmatic Effects; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.

D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Magmatic Effects will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Magmatic Effects under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Magmatic Effects. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. Magmatic Effects reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Magmatic Effects in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Magmatic Effects be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.

G. This warranty is the only written warranty applicable to Magmatic Effects products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

WARRANTY RETURNS (USA ONLY)

To obtain warranty service, a Return Material Authorization (RMA) number must first be obtained from MAGMATIC. It is the Customer's responsibility to provide product proof of purchase and serial number by acceptable evidence such as an invoice copy or an approved MAGMATIC Extended Warranty Certificate ("EWC") and any relevant maintenance records at the time warranty service is sought. Failure to provide acceptable evidence of product proof of purchase or EWC and any relevant maintenance records may be cause for denial of warranty service.

Products returned for warranty service must be sent without any accessories (i.e., power, data, and safety cables, brackets, clamps, rigging hardware, frost filters, gel frames, barn doors, lenses, hoses, nozzles, rack mounting hardware, etc.), must be boxed using the original and/or suitable packaging materials (double-box and foam) that provides ample product protection for ground and/or air freight transit, and must be shipped freight pre-paid and insured to MAGMATIC in Los Angeles, CA or a MAGMATIC Authorized Service Center. The RMA number must be clearly written on the outside of the return box, and a brief description of the problem and the RMA number must be documented and included in the box.

Products returned for warranty service without an RMA number clearly marked on the outside of the package will be refused and returned to the shipper at the Customer's expense. Products returned for warranty service, which are received damaged due to inadequate and/or improper packaging and/or due to damage caused by the shipping carrier, may incur additional repair charges before warranty service begins and/or may void this warranty. If any product accessories (included and/or optional) are shipped with the product, MAGMATIC and/or the MAGMATIC Authorized Service Center shall have no liability what so ever for the loss and/or damage to any such accessories, nor the safe return thereof. If the requested warranty repairs or service (including parts replacement) are within the terms of this warranty, MAGMATIC will pay return ground transportation shipping charges to a single designated point within the United States.

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. Magmatic Effects is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.

PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF. DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS DEVICE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

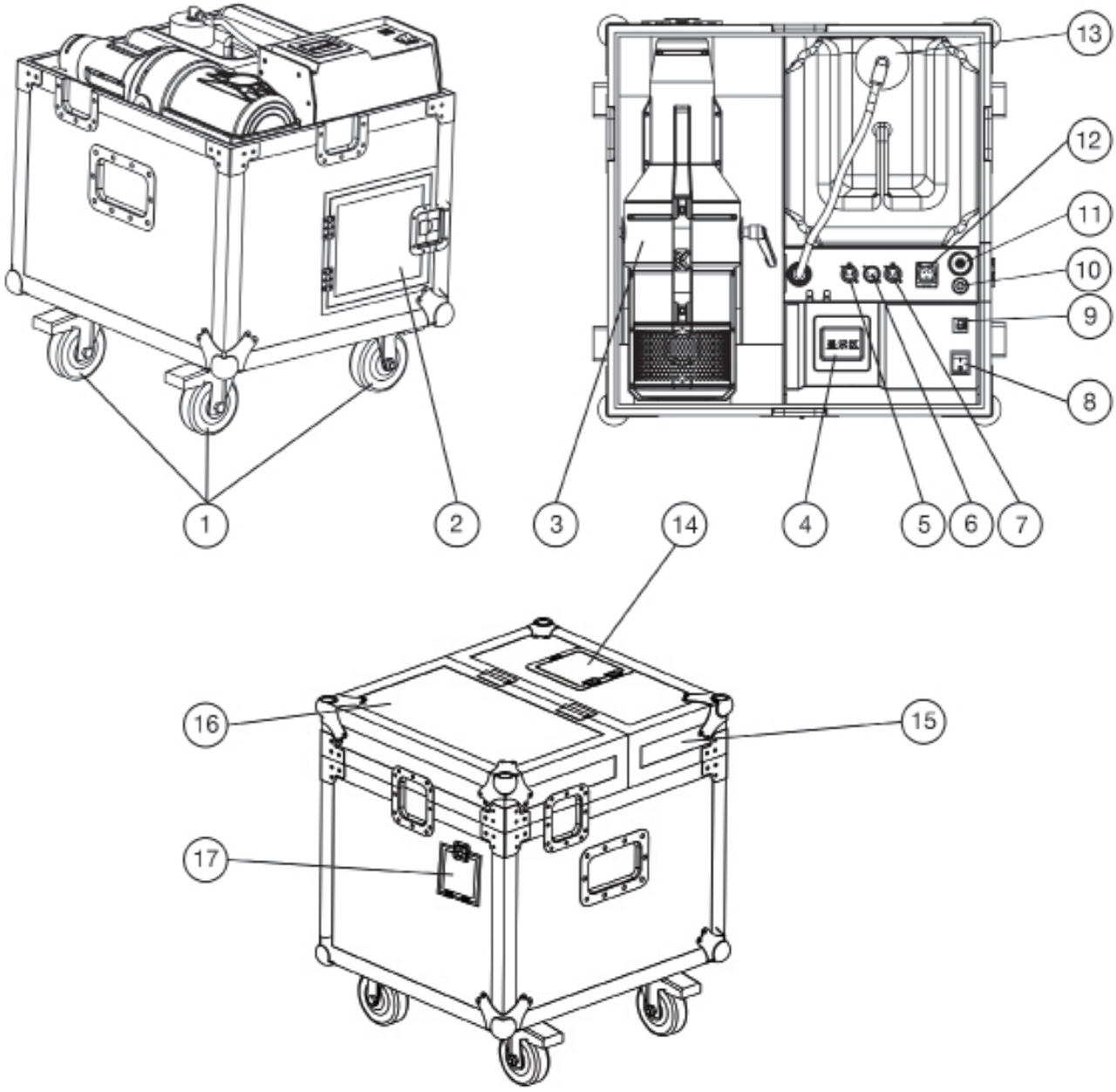
DO NOT PLUG THIS UNIT INTO A DIMMER PACK
DO NOT REMOVE THE COVER UNDER ANY CONDITIONS
KEEP UNIT IN AN UPRIGHT POSITION
NEVER OPERATE THIS UNIT WITH THE COVER REMOVED
UNPLUG FROM POWER DURING LONG PERIODS OF NON-USE
ENSURE TANK IS EMPTY BEFORE STORAGE OR TRANSPORT
DO NOT MOVE WHEN FILLED WITH FLUID
DISCONNECT POWER BEFORE ADDING FLUID OR PERFORMING MAINTENANCE

FOR USE IN INDOOR / DRY LOCATIONS ONLY
DO NOT EXPOSE DEVICE TO RAIN AND/OR MOISTURE
PLACE UNIT IN A WELL VENTILATED AREA
ALLOW 40" (100CM) ABOVE AND AROUND THE UNIT FOR PROPER VENTILATION.

SAFETY GUIDELINES

- Do not attempt installation and/or operation of this device without proper knowledge of how to do so.
- Do not point or direct output in an unsafe direction.
- Do not touch the nozzle while the machine is in operation, or immediately after the device has been shut down.
- Do not shake device, and avoid brute force when installing and/or operating.
- Be sure to save the packing carton in the unlikely event the device may have to be returned for service.
- Do not spill water or other liquids into or on to the device. Be sure that all the fluid is kept inside the fluid reservoir.
- Be sure that the local power outlet matches the required voltage for the device.
- Do not remove components or disassemble the device. There are no user-serviceable parts inside.
- Never connect this device to a dimmer pack.
- Do not attempt to operate this device if it has been damaged in any way.
- Never use this device with the cover removed.
- To reduce risk of electrical shock or fire, do not expose this device to rain or moisture.
- Do not attempt to operate this device if the power cord has been frayed, crimped, and/or damaged. Replace any damaged power cords with new cords of the same power rating.
- Do not remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Always disconnect from main power before making any connection, performing cleaning or maintenance, or adding or draining fluid.
- Always drain fluid before moving the device.
- Always be sure to install this device in an area that will allow proper ventilation.
- Always disconnect power cords during long periods of non-use.
- This unit is intended for indoor use only. Use of this product outdoors voids all warranties.
- Always install this unit in a safe and stable matter.
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on, or pinched by items placed upon or against them.
- The device should be serviced by qualified service personnel when:
    - The power cords or plugs have become damaged.
    - Objects have fallen on and/or liquid has spilled into the device.
    - The device has been exposed to rain and/or moisture.
    - The device does not operate normally or exhibits a marked change in performance.

OVERVIEW



1. Casters w/ Brakes (x4)
2. Storage Compartment
3. Removable Snow Cannon
4. Touch Screen Display
5. Wired Remote Port
6. DMX In
7. DMX Out
8. Power Switch
9. Breaker
10. Snow Cannon Cable Connection
11. Snow Cannon Fluid Connection
12. Power In
13. Tank Filler Cap
14. Touch Screen Hatch
15. Control/Connection Access Lid
16. Tank Filler Access Lid
17. Snow Output Hatch

SET UP

1. Open the shipping carton and carefully remove the device.

2. Be sure to remove ALL the packing material, paying particular attention to the area around the fog outlet vent. Set the device on a flat dry surface.

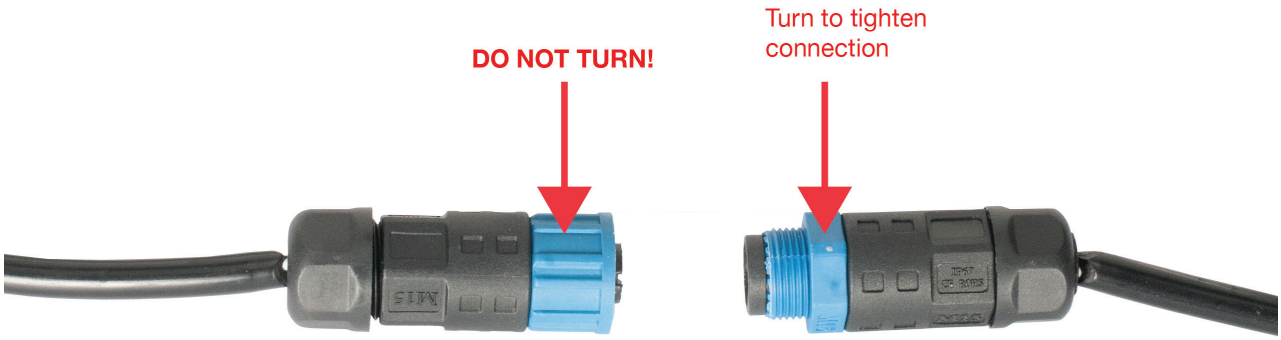
3. **Make sure that the unit is disconnected from power and the wheels are locked.**

4. Release the three (3) latches on the tank filler access lid, and open the lid. Be careful of the lid hinges and latches so as to avoid pinching your hands or fingers.

5. Unscrew the tank filler cap and fill the tank. **Use only Atmosity Premium Snow Fluid (APS-2L, APS-4L, APS-20L, APS-200L) as specified by the manufacturer. Use of other, non-approved fluids could severely damage your device.**

6. Screw the tank cap back on and and close and latch the tank filler access lid.

7. Connect the cable connection and the fluid connection on the connector panel to the matching connectors on the removable snow cannon, using the included 10-m hose and extension cable if needed.
   NOTE: When securing the cable connections together, make sure to do so only by turning the thinner nut on the connector containing the MALE PINS!
   Twisting the connector containing the female pins may cause damage to the connector and expose the electrical components inside to the elements!

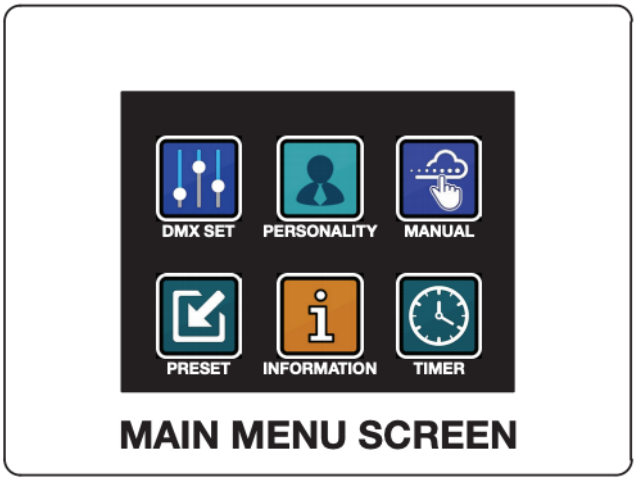


8. Connect the device to power and use the touch screen display to operate the device as desired.

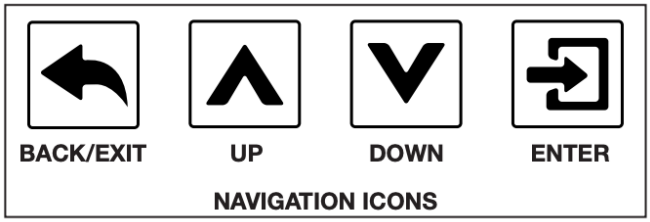
CONTROL PANEL

This fixture includes a system menu with an easy to navigate touch screen control panel where all necessary settings and adjustments are made. When first powering on the fixture, the fixture's main menu will be displayed (**see Main Menu Screen below**).

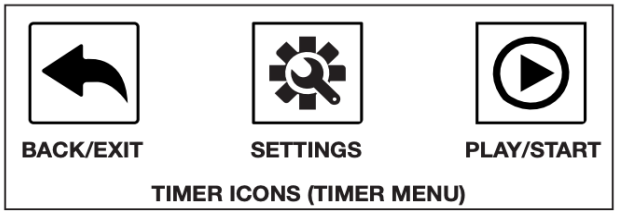
Press the main menu icon you would like to access. Use the **ENTER** button to access sub menus and use the **UP** and **DOWN** buttons to make adjustments. Press the **ENTER** button to confirm your adjustments. You may exit the main menu at any time without making any adjustments by pressing the **BACK/EXIT** button.



MAIN MENU SCREEN



NAVIGATION ICONS



TIMER ICONS (TIMER MENU)

SYSTEM MENU

	DMX SETUP	DMX Addr	001 - 512		DMX Addressing
		DMX Mode	1 CH		DMX Channel Mode Selection
			3 CH		
			5 CH		
	PERSONALITY	Wifi Set	Wifi Name	0-XXXX	Displays Wifi Name
			Wifi Passcode	0000000 - 00009999	Wifi Password
			Wifi IP	0-255.0 ~ 255.0 ~ 255.0 ~ 255	Displays Wifi IP
			Wifi Port	0-65535	Network Port
			Reset Network	Complete	Network Connection Reset
				Failed, try again	
			Wifi->DMX & Magfly	On / Off	Magfly Transmit On
		LCD Set	Screen OFF: Never/10s/40s/1min/2min/5min/ 10min/20min		Display Blackout Time
		Magfly Set	Magfly Channel: 0-14		Magfly Channel Setting
			Magfly: On / Off		Magfly Activation
		No Fluid	On / Off		Activate/Deactive No Fluid Warning
		RF Learn			
		Last State	Yes / No		Activate/Deactive Last State
		Default	Press ‘ENTER’		Restore Factory Settings
	MANUAL	Snow	1% - 100%		Manual Control
		Fan	50% - 100%		
	PRESET	Preset 1 - 10 min duration - 3 min interval - 100% snow - 100% fan			Preset Settings 1 (Not Adjustable)
		Preset 2 - 5 min duration - 2 min interval - 50% snow - 100% fan			Preset Settings 2 (Not Adjustable)
		Preset 3 - 3 min duration - 1 min interval - 30% snow - 100% fan			Preset Settings 3 (Not Adjustable)

CONTINUED ON NEXT PAGE

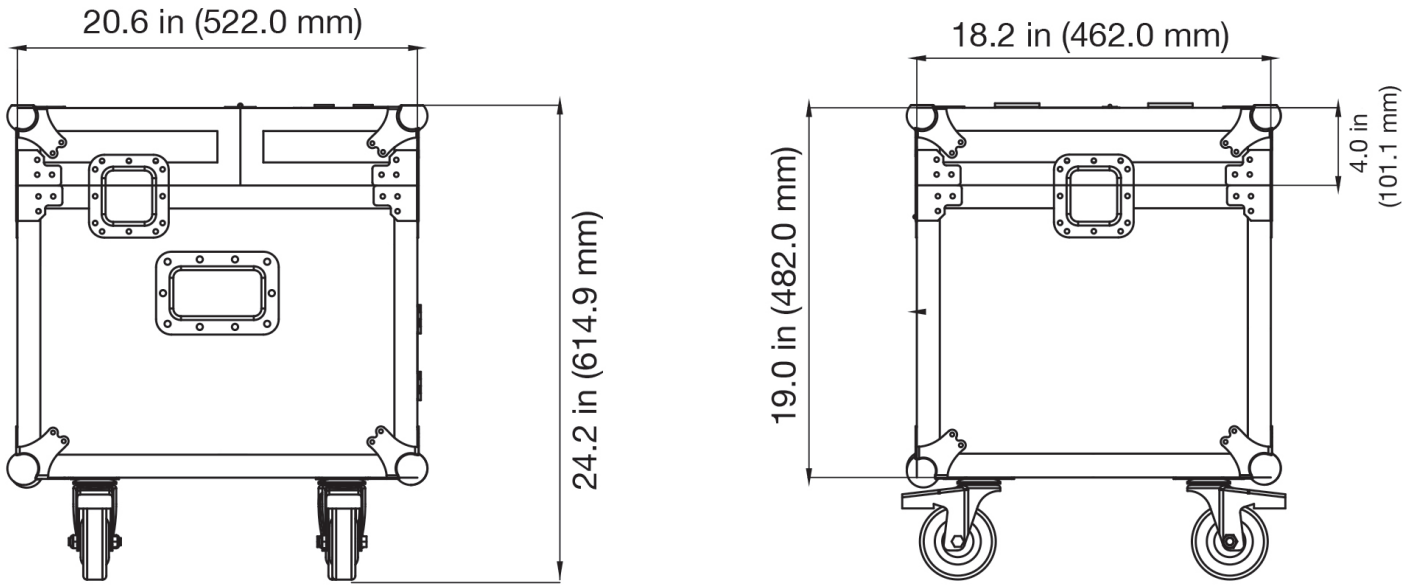
SYSTEM MENU

	PRESET (cont'd from prev page)	Preset 4 - 5 min duration - 2 min interval - 10% snow - 100% fan		Preset Settings 4 (Not Adjustable)
		Preset 5 - 3 min duration - 1 min interval - 10% snow - 100% fan		Preset Settings 5 (Not Adjustable)
	INFORMATION	State	Normal / Error	Machine Status
		Slot 1	Null / Magfly / Wifi / RF	Slot 1 Status
		Slot 2	Null / Magfly / Wifi / RF	Slot 2 Status
		Last Control	LCD_auto / LCD_manual / DMX / Wifi / RF / Remote / Error	Current Control Status
		Remote Status	Yes / No	Remote Control Status
		Wifi Connect	Null / Phone / Route / No	Wifi Connection Status
		Wifi IP	No / 0~255, 0~255, 0~255, 0~255	Currrent Wifi IP Status
		Magfly CH	0-14	Current Magfly Channel Setting
		DMX Addr	1-512	Current DMX Address Setting
		DMX Mode	1 / 3 / 5	Current DMX Ch. Mode Setting
		Timer Output	1% - 100%	Current Timer Output Setting
		Timer Blower	50% / 100%	Current Timer Fan Setting
		Timer Int.	0s - 2500s	Current Timer Interval Setting
		Timer Dur.	0s - 250s	Current Timer Duration Setting
		No Fluid	Normal / Empty	Current Fluid Tank Status
		LCD Ver	V1.2	Current LCD Version
		Sftwr Ver	V1.1	Current Software Version
	TIMER	Snow Output	1% - 100%	Snow Output Setting
		Fan Speed	50% - 100%	Fan Speed Setting
		Interval	0-2500s	Interval Setting
		Duration	0-250s	Duration Setting

DMX CHANNEL FUNCTIONS & VALUES

CHANNEL			DMX VALUES	FUNCTION
1CH	3CH	5CH		
1				***Volume***
			000 - 005	Off
			006 - 255	1% - 100%
	1	1		***On/Off***
			000 - 005	Off
			006 - 255	On
	2	2	000 - 255	***Volume,*** 1% - 100%
	3	3		***Fan***
			000 - 127	50%
			128 - 255	100%
		4		***Duration***
			000 - 005	0s
			006 - 255	1s - 250s
		5		***Interval***
			000 - 005	0s
			006 - 255	10s - 2500s

DIMENSIONAL DRAWINGS



Drawings are not to scale.

TROUBLE SHOOTING

If you experience low output, pump noise, or no snow output at all, disconnect and discontinue use immediately. Do not attempt to continue to operate as this may damage the machine. Check the fluid level, the breaker, and be sure the wall outlet is sending power. If all of the above appears to be okay, and the unit fails to operate correctly, the unit will require service. Please contact Magmatic Effects.

CLEANING & MAINTENANCE

When storing your snow machine be sure to store it in a cool area. Cover the machine so that dust does not build up on the unit. When storing the machine for long periods of time, it is highly advised to at least run the machine every 2-3 months. Long periods of inactivity can severly shorten the life of your machine. Only run Atmosity Premium Snow Fluid through your machine. ***NEVER*** run any other liquid solution through your machine. Running anything other then water based ***SNOW*** fluid will severly damage your machine.

SPECIFICATIONS

DYNAMIC EFFECTS:
Snow Adjustment: 0-100%
Fan Speed Adjustment: 50% or 100%
Snow Height Output: 32.8ft / 10m
Snow Distance Output: 39.3ft / 12m

CONTROL:
2 Card Inputs for optional cards
RDM (Remote Device Management)
Control Protocol: DMX512
DMX Modes: 3 (1, 3 & 5 Channel)
On-Board Timing Control
5 Factory Presets
4-pin Wired Remote Input
Touch Screen Display
Manual Trigger via Touch Display

CONNECTIONS:
Data Connector: 5-pin XLR In / Out for DMX connections, 4-pin XLR for optional wired remote.
Locking Power Connector

CONSTRUCTION / PHYSICAL / PERFORMANCE
Dimensions: (LxWxH) 20.86 x 21.26 x 24.21in / 530 x 540 x 615mm
Weight: 77.17lbs / 35kg
Fluid Tank Capacity: 20L
Fluid Consumption: 16.9 fl. oz/min (500ml/min)

COMPATIBLE FLUID
Atmosity Premium Snow Fluid
Models: APS-2L, APS-4L, APS-20L

ELECTRICAL:
Power Consumption: 1250w
Input Voltage: 120V, 230V, 240V, 50 & 60Hz
Breaker Size: 15A (120V Version)
Breaker Size: 9A (230V Version)

CERTIFICATIONS / QUALIFICATIONS / THERMAL
IP Rating: IP20, dry location
Maximum Temperature (Ambient): 104°F (40°C)
Exterior Surface Temperature: 122°F (50°C)

WHAT'S INCLUDED:
Flight Case
14AWG Locking Power Cable
Snow Canon
10-Meter Long Hose

OPTIONAL ACCESSORIES:
MagFLY Card
MagAPP Card
MagRF Card