MAGMATIC

MAGMAFAN 1
User Manual

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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
11/17/20	1	1.0	1 / 2 / 4 channels	Initial Release
12/11/20	1.1	N/C	No Change	Updated Input voltage/breaker information, added FCC Statement
02/25/21	1.2	N/C	No Change	Updated Dimensional Drawings & Specifications
02/25/22	1.3	N/C	No Change	Updated IP rating & specifications
10/10/22	1.4	N/C	No Change	Updated Installation Insructions
12/02/22	1.5	N/C	No Change	Added RDM
03/09/23	1.6	N/C	No Change	Added Remote Control
06/16/23	1.7	N/C	No Change	Updated Installation Instructions
06/27/23	1.8	N/C	No Change	Updated Safety Guidelines
07/27/23	1.9	N/C	No Change	Updated Safety Guidelines
12/26/23	2.0	N/C	No Change	Updated Specifications
01/19/26	2.1	N/C	No Change	Added statement to Safety Guidelines

CONTENTS

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

Power Cable (x1)

CUSTOMER SUPPORT

Contact ELATION 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 | support@elationlighting.com

ELATION SERVICE EUROPE – Monday – Friday 08:30 to 17:00 CET
+31 45 546 85 63 | support@elationlighting.eu

REPLACEMENT PARTS please visit parts.elationlighting.com

LIMITED WARRANTY

For up-to-date warranty information regarding your device, please visit Elation's warranty information page online or scan the QR codes below.

USA: https://www.elationlighting.com/warranty-information

EU: https://www.elationlighting.eu/terms_and_conditions

It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing its operational lifespan.

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
NEVER OPEN THIS FIXTURE WHILE IN USE!
UNPLUG POWER BEFORE SERVICING FIXTURE!
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!

THE MAGMATIC MAGMAFAN1 IS NOT INTENDED FOR THE DIRECT DISPERSING OF FOG, HAZE, OR CONFETTI. ATTEMPTING TO USE MAGMAFAN1 IN SUCH A MANNER CAN LEAD TO HAZARDOUS SITUATIONS AND MAY CAUSE HARM TO THE UNIT.

THIS IP RATED FIXTURE HAS BEEN DESIGNED FOR TEMPORARY OUTDOOR ENVIRONMENTS. IT HAS NOT BEEN TESTED TO PROTECT AGAINST THE INGRESS OF DUST (X) BUT HAS BEEN TESTED TO PROTECT AGAINST A SPLASH OF WATER FROM ANY DIRECTION (4).

SAFETY GUIDELINES

READ AND SAVE THESE INSTRUCTIONS

- To Reduce The Risk Of Fire, Electric Shock Or Injury To Persons, Do Not Use Replacement Parts That Have Not Been Recommended By The Manufacturer.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- **DO NOT TOUCH** the device housing during operation. Unplug the power and allow approximately 15 minutes for the device to cool down before servicing.
- **DO NOT** shake the device, and avoid brute force when installing and/or operating.
- **DO NOT** operate device if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the device securely and with ease. **NEVER** force a power cord connector into the device. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.
- **DO NOT** block any air ventilation slots.
- All fan and air inlets must remain clean and free of dust and debris.
- Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.
- When installing the device in a suspended environment, always use appropriately rated hardware, and always secure the device with an appropriately rated safety cable.
- Always disconnect device from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, and **NEVER** pull out the plug by tugging the wire portion of the cord.
- Consistent operational breaks will ensure device will function properly for many years.
- **ONLY** use the original packaging and materials to transport the fixture for service.

Children should be supervised to ensure that they do not play with this device.

The fan shall not be modified by users, such as by adding supplemental filters to fans not intended for air cleaning purposes.

OVERVIEW
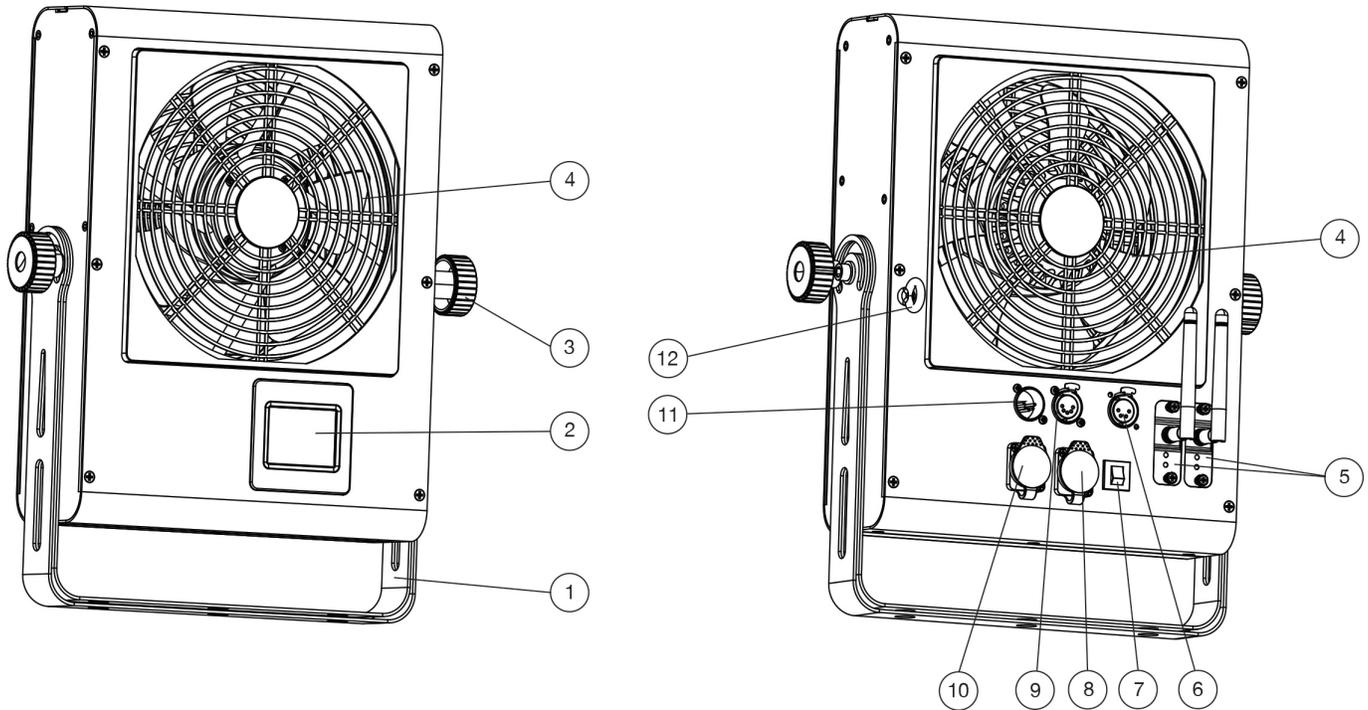
1. Mounting Yoke
2. Touch Screen Display
3. Mounting Yoke Adjustment Knob (x2)
4. Fan Grille (x2)
5. Optional Module Installation Point* (x2)
6. Wired Remote Port
7. Breaker
8. Power In
9. DMX Out
10. Power Out
11. DMX In
12. Safety Cable Loop

*device shown with optional equipment installed; actual equipment of your device may vary, and module installation points may be blanked out if not in use.

INSTALLATION INSTRUCTIONS

⚠ **FLAMMABLE MATERIAL WARNING**

Keep fixture a minimum of 5 feet (1.5 meters) away from flammable materials and/or pyrotechnics.

⚠ **ELECTRICAL CONNECTIONS**

A qualified electrician should be used for all electrical connections and/or installations.

⚠ **DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!**

Device **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting a single device or multiple interconnected devices for custom matrix designs to any metal truss/structure or placing the device(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the device(s), clamps, cables, and accessories.

Maximum ambient operating temperature is **104°F (40°C).**
Do not operate this device when ambient temperature exceeds this limit.

Device(s) should be installed outside walking paths, seating areas, and areas where unauthorized personnel might reach the device by hand.

NEVER stand directly below the device(s) when rigging, removing, or servicing.

Allow approximately 15 minutes for the device to cool down before servicing.

Overhead installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable (not included) that meets all local, national, and country codes and regulations.

The power output socket is only for connection between the same products and cannot be used for other purposes. **A maximum of 10 units can be connected simultaneously.**

INSTALLATION INSTRUCTIONS

SETUP
1. Loosen knurled thumbscrews.
2. Open the yoke-stand brackets in opposite directions. Adjust them so that they are open to the maximum angle to stabilize the fan during operation.

Note: During operation, the fan produces a slight force that pushes against the fixture. If the brackets are not opened far enough, the fixture could topple, causing possible damage to the fixture, or possible injury.

3. Aim the Magmafan1 fixture within the brackets in the desired direction.
4. Manually tighten both thumbscrews sufficiently (finger-tight) to secure the yoke-stand brackets.

Do not over tighten thumb-screws. Do not use a wrench or other similar tool to tighten. Doing so could damage the threading of either the holes in the fixture, or the thumb screws, or possibly shear the thumb screw bolt-shaft.

Children should be supervised to ensure that they do not play with the appliance
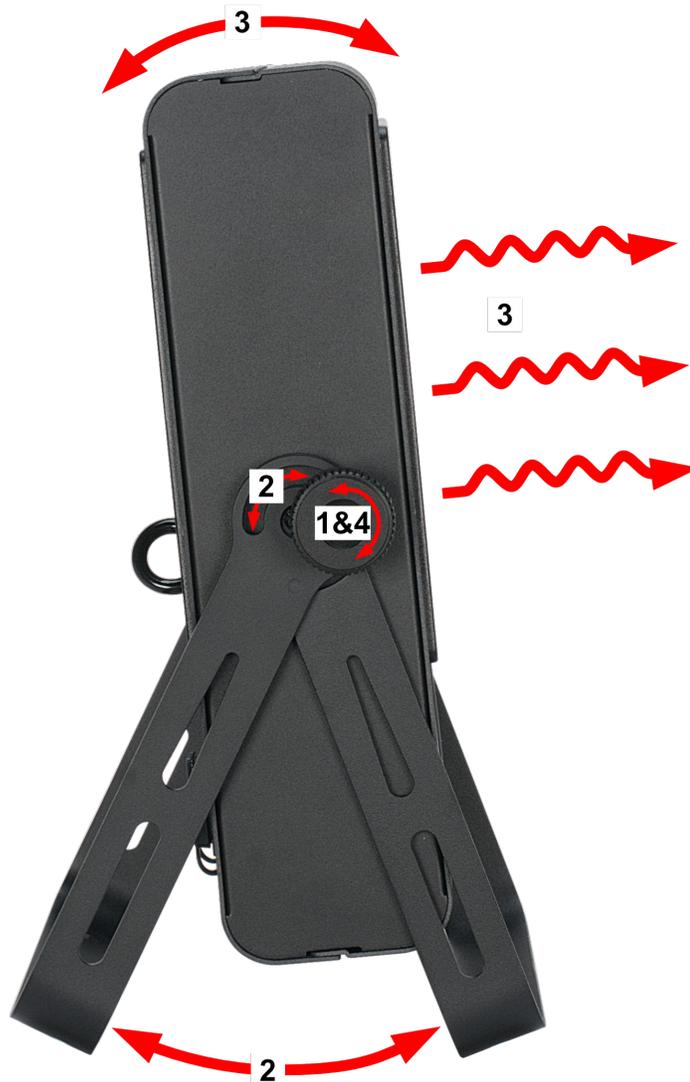
REMOTE CONTROL

This unit can be operated using the **MagRemote VIDI** remote control, which is a 4-pin, wired remote that can be used to control the volume, intensity, duration, and interval. Please note that the MagRemote VIDI is a universal remote, and some remote functions may not be applicable to all units.

To operate the device using this remote, simply connect the remote's 4-pin male connector to the matching 4-pin female port on the back of the unit, which is labeled "Remote In." The unit will automatically recognize whether or not the remote has been connection. Available functions are listed below:

Manual Button - Unit outputs when button is pressed, and stops when button is released. LED illuminates when unit is outputting. Settings are set on the device's display screen.

Continuous Button - Unit outputs when button is pressed the first time, and continues outputting until the button is pressed again. Settings are set on the device's display screen. LED illuminates when unit is outputting.

Timer On/Off Button - Activates or deactivates the timer function. LED illuminates when function is activated.

Volume Knob - N/A.

**Intensity Knob -** Adjust the speed of the fan.

Duration Knob - Adjust the length of time that the unit will produce wind after reaching the current interval time.

Interval Knob - Adjust the length of time before the unit begins to output wind.

SYSTEM MENU

This device includes a system menu with an easy to navigate touch screen control panel where all necessary settings and adjustments can be made. When first powering on the device, the main menu will be displayed.

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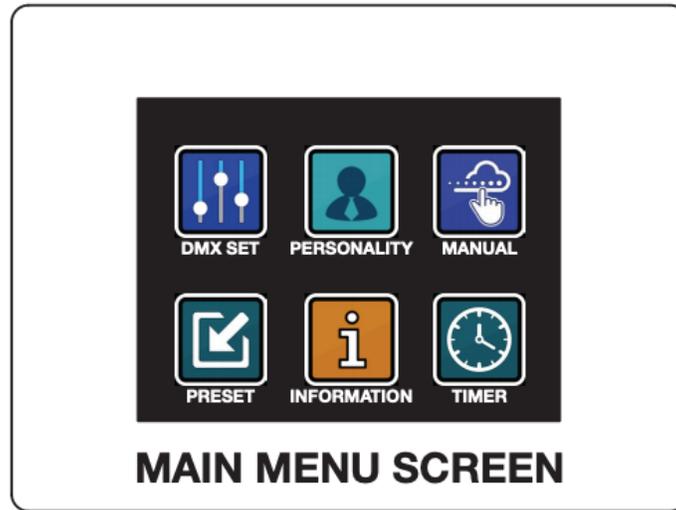
To proceed, press the main menu icon that you would like to access. Use the **ENTER** button to access sub menus and use the **UP** and **DOWN** buttons to make adjustments. Press the **ENTER** button to confirm your adjustments. You may exit the main menu at any time without making any adjustments by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

NAVIGATION ICONS
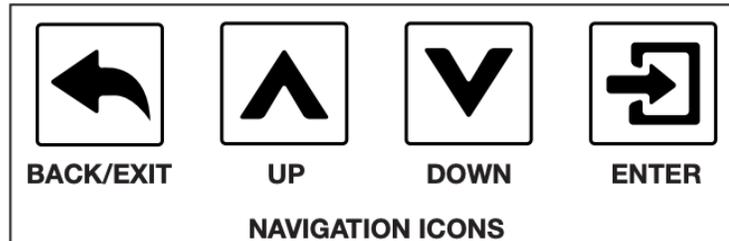
When using the Timer function, a different set of Timer Icons will be displayed. Press the **SETTINGS** button to adjust the timer function settings. Press the **PLAY/STOP** button at any time to begin operating the device according to the timer settings that have been inputted. You may exit to the main menu at any time by pressing the **BACK/EXIT** button.

TIMER ICONS (TIMER MENU)

SYSTEM MENU

	DMX SET	DMX Addr	1 ~ 512		
		DMX Mode	1-ch		
			2-ch		
			4-ch		
	PERSONALITY	Wifi Set	Wifi Name	0~xxxxx	If no module card is installed, "Optional Module Not Installed" will be displayed on the screen
			Wifi Passcode	00000000 – 00009999	
			Wifi IP	0~255.0~255.0~ 255.0~255	
			Wifi Port	0~65535	
			Reset Network	Complete	
				Failed, try again	
			Wifi?DMX & Magfly	On / Off	
		LCD Set	Screen OFF	Never / 10s / 40s / 1min / 2min / 5min / 10min / 20min	
			Display Flip	0 deg / 180 deg	
		MagFly Set	MagFly Channel	0~14	
			MagFly	On / Off	
		MagRF Learn	Connected		Frequency match-ing capability. Connection failed message displays if connection is unsuccessful after 20s
			Connection Failed, check module and retry		
		Last State	Yes / No		Device adheres to last settings used prior to shutting off
		Default			Restores device to factory settings
	MANUAL	20% – 100%			

SYSTEM MENU

	TIMER	Interval	0~2500s	Start or pause device operation according to these values by pressing the Play/Start icon.
		Duration	0~250s	
		Fan Speed	20%~100%	
	PRESET	Preset 1		See Preset Modes section
		Preset 2		
		Preset 3		
		Preset 4		
		Preset 5		
	INFORMATION	State	Normal / Error	
		Slot 1	Null / MagFly / Wifi / MagRF	
		Slot 2	Null / MagFly / Wifi / MagRF	
		Last Control	LCD_auto / LCD_manual / DMX / Wifi / MagRF / MagRemote / Error	Displays current source of device control
		MagRemote State	Yes / No	Displays whether remote control is connected
		Wifi Connect	Null / Phone / Route / No	Wifi connection source
		Wifi IP	No / 0~255, 0~255, 0~255, 0~255	
		MagFly Ch	0-14	
		DMX Addr	1-512	
		DMX Mode	1-ch / 2-ch / 4-ch	
		Timer Fan Sp	20% - 100%	
		Timer Int	0-2500s	
		Timer Dur	0-250s	
		LCD Ver	V1.2	
		Sftwr Ver	V1.0	

PRESET MODE

Selecting the device's Preset Mode provides the user with a choice of five (5) pre-programmed operational modes, which are controlled by an easy-to-use Preset Control Screen (see below). The details of each preset mode, numbered **1** through **5**, can be viewed by pressing on the numerical buttons located near the top of the screen. The duration, interval, and fan speed for the selected preset mode will be displayed on the screen below the numerical buttons.

Press the **PLAY** button in the bottom right corner of the screen to operate the device according to the currently displayed preset mode. Press the **BACK/EXIT** button in the bottom left corner of the screen to return to the main menu screen.

The details of each preset mode are shown in the table below:

PRESET MODE	DURATION	INTERVAL	FAN SPEED
1	40 min	20 min	100%
2	25 min	10 min	100%
3	10 min	5 min	100%
4	40 min	20 min	50%
5	10 min	5 min	50%

DMX CHANNEL FUNCTIONS & VALUES

CHANNEL			VALUES	FUNCTION
1-CH	2-CH	4-CH		
	1	1		**On/Off**
			000 – 005	Off
			006 – 255	On
1				**Fan Speed**
			000 – 005	Off
			006 – 255	20% – 100%
	2	2		**Fan Speed**
			000 – 005	20%
			006 – 255	21% – 100%
		3		**Duration**
			000 – 005	0s
			006 – 255	1s – 250s
		4		**Interval**
			000 – 005	0s
			006 – 255	10s – 2500s

REMOTE DEVICE MANAGEMENT (RDM)
NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

FIXTURE RDM INFORMATION:

RDM Code	Device Model ID	Personality ID
22A6H	3C10	1-ch (1) 2-ch (2) 3-ch (3)

Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the fea-tures that you require.

The following parameters are accessible in RDM on this device:

[0x1000] Identify Device
[0x00F0] DMX Start Address
[0x00C0] Software Version Label
[0x0060] Device Info
[0x0080] Device Model Description
[0x0081] Manufacturer Label
[0x0082] Device Label
[0x0050] Supported Parameters
[0x00E1] DMX Personality Description
[0x00E0] DMX Personality
[0x0200] Sensor Definition
[0x0201] Sensor Value

MAINTENANCE GUIDELINES

⚠ **DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

CLEANING

Frequent cleaning is recommended to ensure proper function and an extended life. The frequency of cleaning depends on the environment in which the device operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the device. Clean the external surface periodically with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this device, please refer all other service issues to an authorized MAGMATIC service technician. Should you need any spare parts, please order genuine parts from your local MAGMATIC dealer.

Please refer to the following points during routine inspections:
- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition in order to prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust or liquids to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

SPECIFICATIONS

PERFORMANCE
Rated Power: 165W
Max. fan volume: (17m3/min 600CFM (US) –
15m3/min 530CFM (EU)
Fan angle: 0–360°
Fan speed range: 750–2800rpm (US) – 750–
2550rpm (EU)

CONSTRUCTION
Durable aluminum housing
Compact lightweight mobile design

CONTROL
3 DMX Channel Modes (1 / 2 / 4)
Onboard LCD Touch Control Panel
DMX–512 and RDM Protocol Support
Optional MAGFLY Wireless DMX Transceiver
Optional MAGRF Wireless and Wired Remotes
MagRemote VIDI

CONNECTIONS
Locking 5pin XLR Connector In/Out
IP65 Locking Power Connector In
With Wired Digital Communication Network

SIZE / WEIGHT
Length: 13.2 in. (335mm)
Width: 4.9 in. (125mm)
Height: 15.6 in. (395mm)
Weight: 15 lbs. (6.8kg)

ELECTRICAL
US Version: 120VAC 60Hz, Europe Version:
230VAC/240VAC 50Hz
3A (NFB US Version)
2A (NFB EU Version)
Max Power Consumption: 165W

THERMAL
Maximum Ambient Temperature (Ta max) 104°F
(40°C)
Exterior Surface Temperature, Steady State: 122°F
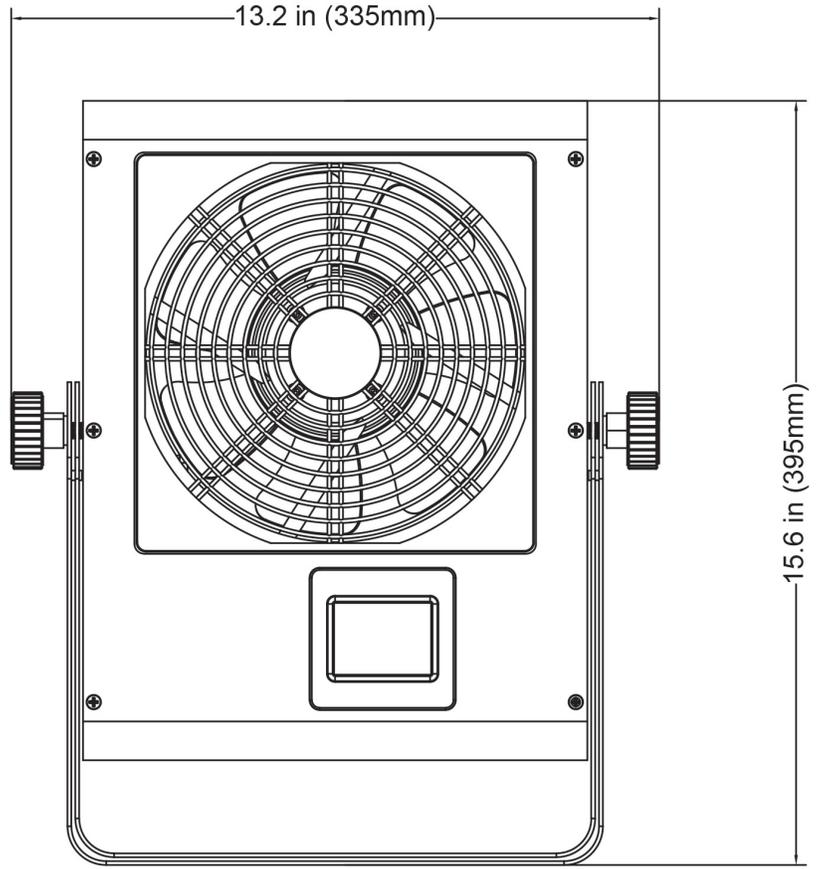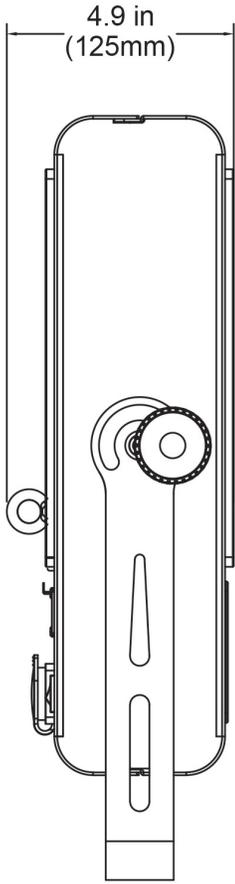(50°C)

OPTIONAL ACCESSORIES
MagFly
MagRF

APPROVALS / RATINGS
CE | cETLus | IPX4 | UKCA

DIMENSIONAL DRAWINGS

DRAWINGS NOT TO SCALE

4.9 in (125mm)

13.2 in (335mm)

15.6 in (395mm)

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS
This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.