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MAGMATIC 8IP Prisma Driver System User Manual

MAGMATIC 8IP Prisma Driver System

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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
09/27/2021	1.0	1.01	8/9/12 Channels	Initial Release
11/03/2021	1.1	N/C	No Change	Updated 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.

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)

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 Voice: +31 45 546 85 63 | Fax: +31 45 546 85 96 | support@elationlighting.eu

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

	PROTECTION CLASS 1 – 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 WHILE IN USE! UNPLUG POWER BEFORE SERVICING! NEVER TOUCH DURING OPERATION, AS SURFACE OF DEVICE MAY BE HOT! KEEP FLAMMABLE MATERIALS AWAY FROM DEVICE!
IP65	FIXTURE IS DUST TIGHT AND PROTECTED AGAINST WATER JETS FROM ANY IP65 DIRECTION.

- **DO NOT TOUCH** the driver housing during operation. Turn OFF the power and allow approximately 15 minutes for the driver to cool down before servicing.
- **DO NOT** shake driver, and avoid brute force when installing and/or operating.
- **DO NOT** operate driver if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into their sockets securely and with ease. **NEVER** force a power cord connector into a socket. If the power cord or any of its connectors are damaged, replace it immediately

with a new one of the same power rating.

- **DO NOT** block any air ventilation slots.
- All fan and air inlets must remain clean and free of dust and debris.
- Always disconnect driver 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 driver will function properly for many years.
- **ONLY** use the original packaging and materials to transport the driver for service.

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 driver operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the driver. Clean the external surface periodically with a soft cloth to avoid dirt/debris accumulation.

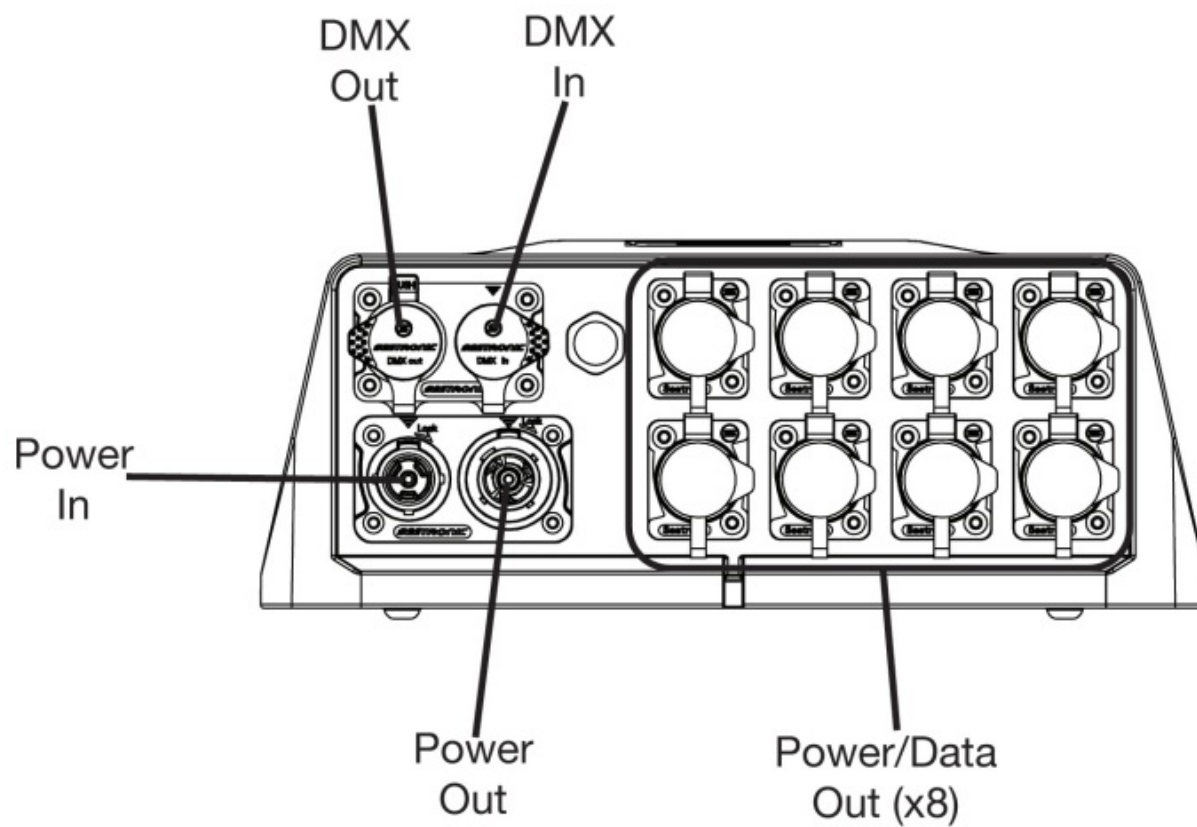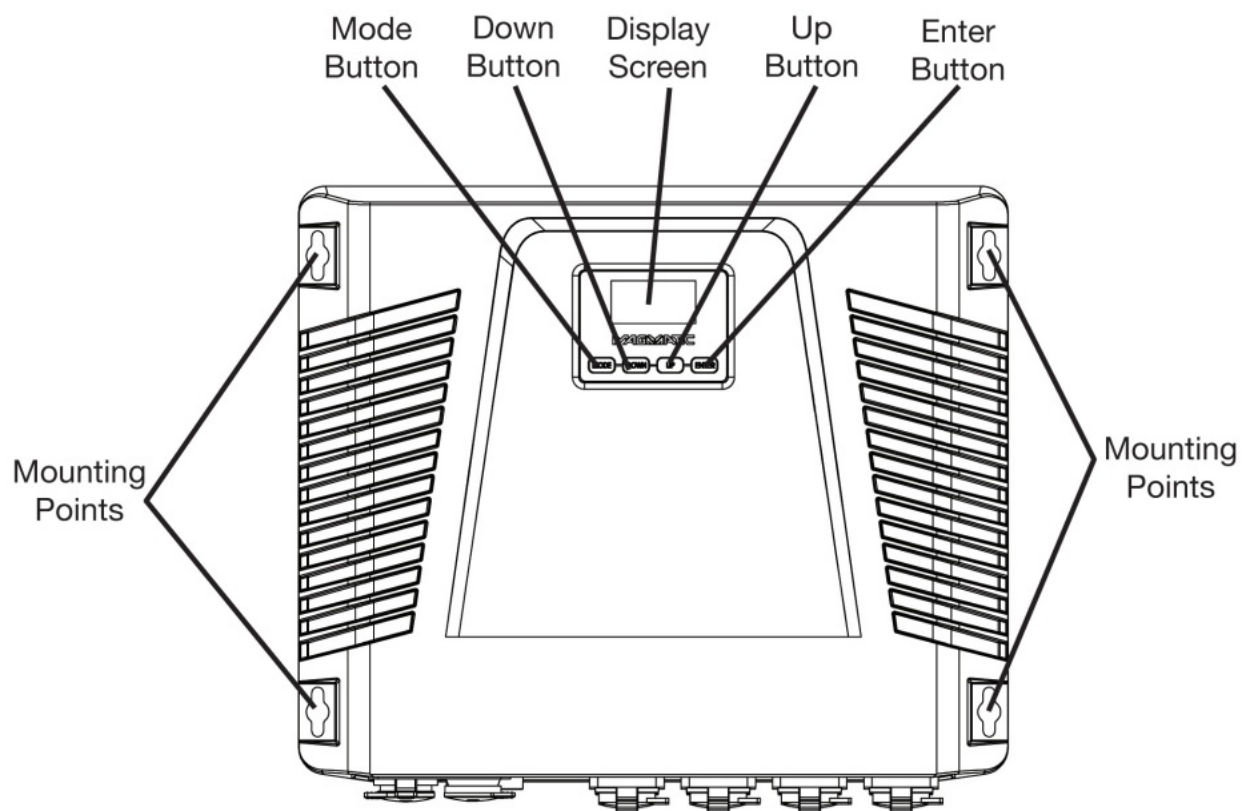**NEVER** use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this driver, 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 (ceil- ing, suspension, trussing). Deformations in the housing could allow for dust or liquids to enter into the driver. Damaged rigging points or unsecured rigging could cause the driver 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.

OVERVIEW

Mode
Button

Down
Button

Display
Screen

Up
Button

Enter
Button

Mounting
Points

Mounting
Points

DMX
Out

DMX
In

Power
In

Power
Out

Power/Data
Out (x8)

INSTALLATION INSTRUCTIONS

	FLAMMABLE MATERIAL WARNING Keep driver a minimum of 5.0 feet (1.5m) 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 DRIVER IF YOU ARE NOT QUALIFIED TO DO SO!

Driver 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.

Ambient operating temperature range is from **-4°F (-20°C) to 122°F (50°C).** Do not operate this device when ambient temperature falls outside this range.

Device(s) should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the device(s) by hand.

INSTALLATION INSTRUCTIONS

MOUNTING

The driver may be secured to a surface or mounting rail by using the four (4) mounting points located on the integrated mounting brackets on either side of the driver.
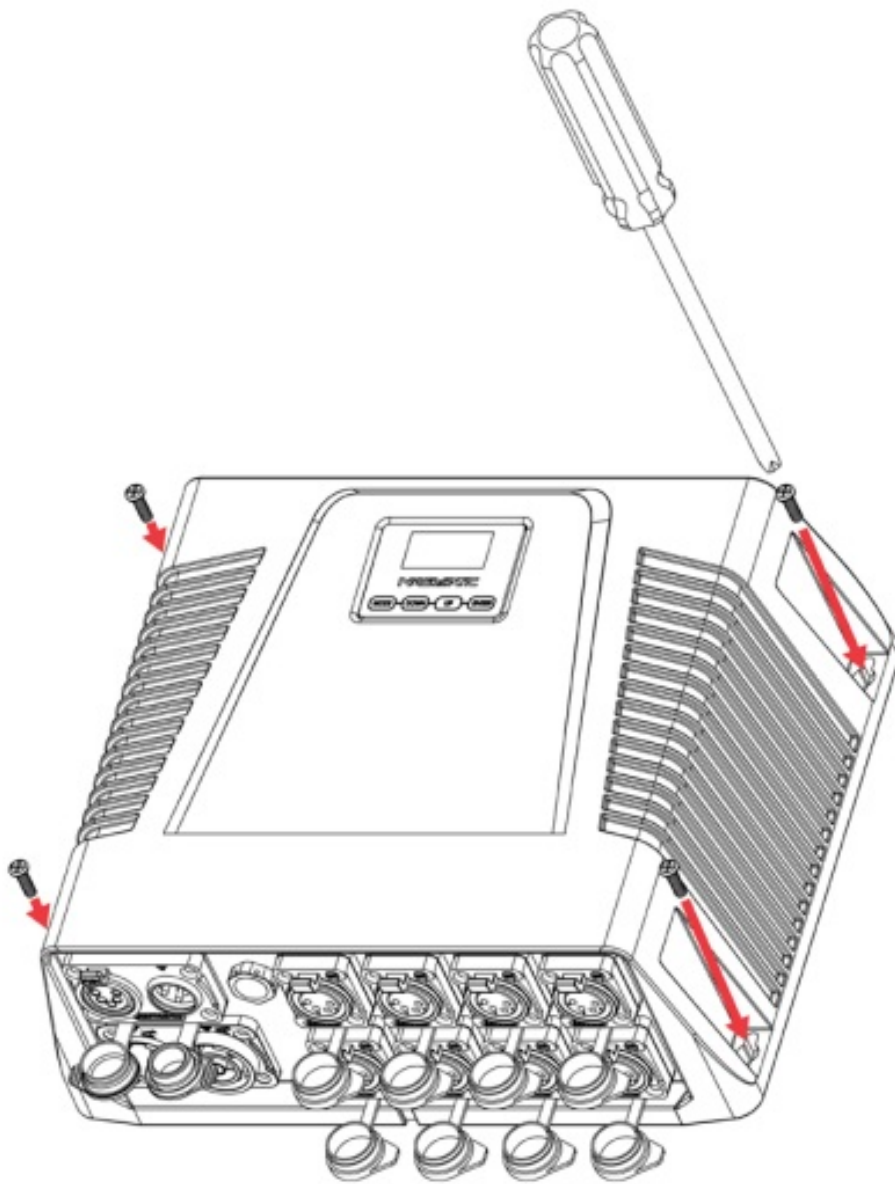
CONNECTIONS

This driver features eight (8) 4-pin locking output sockets, each of which can accommodate a connection to a single Magmatic Prisma Mini series lighting fixture.

This driver is suitable for use with the following Magmatic lighting fixtures:

- **Prisma Mini BAR 20**
- **Prisma Mini PAR 20**
- **Prisma Mini PAR 45**

Each output socket features a waterproof cap, which must be fitted in place over the socket when not in use in order to maintain the device's IP65 rating.

SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel (see image below) located on the fixture provides access to the main system menu, where all necessary system adjustments can be made. During normal operation, pressing **MODE** button once will access the fixture's main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the **UP** and **DOWN** buttons. Once you

reach a field that requires adjusting, press the **ENTER** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **MODE** button.

The display screen will automatically time out after an extended period of inactivity. To unlock the display screen, simply press and hold the **MODE** until the display screen unlocks.
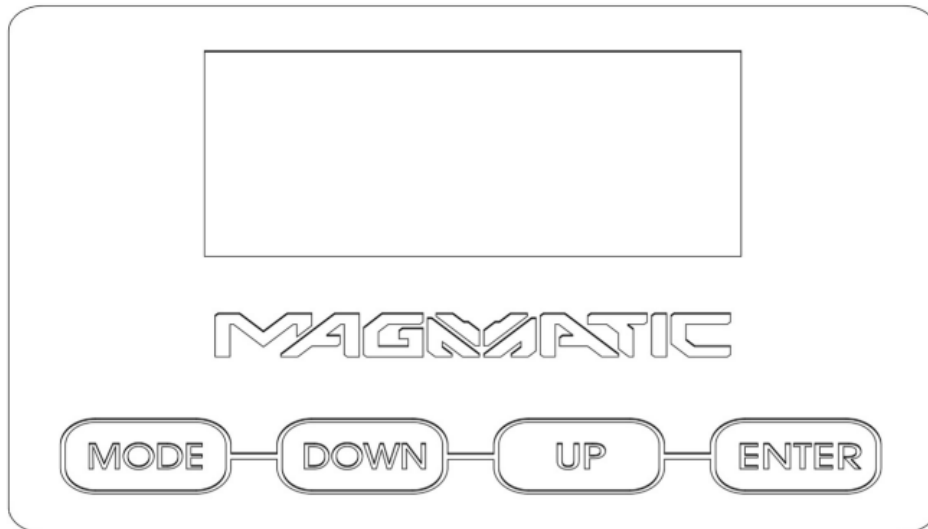
SYSTEM MENU

Magmatic Prisma Driver 8IP System Menu				
Default settings shown in **bold**				
Supports Software Versions: 1.01				
ADDRESS	Address XXX	**001** – 504		
USER MODE	Basic			
	Standard			
	Extended			
	Status	Lost DMX	Black	
			Hold	
		Display	**On** / Off	30-second screen time-out
		Key Lock	**On1** / On / Off	Lock screen keys
	LCD Set			

FUNCTION				
		Flash	**On** / Off	Display screen will flash when DMX connection is absent
		Invert	**Off** / On	Flip screen display
	Dim Mode	**Standard**		
		Stage		
		TV		
		Architec		
		Theatre		
		Stage2		
		0.0s		
		0.1s		
		0.2s		
		0.3s		
		0.4s		
		0.5s		
		0.6s		
		0.7s		
		0.8s		
		0.9s		
		1.0s		
		1.5s		
		2.0s		
		3.0s		
		4.0s		
		5.0s		

FUNCTION (continued)	Dim Mode (continued)	6.0s		
		7.0s		
		8.0s		
		9.0s		
		10.0s		
	Disp Set	**ADDR**		
		Disp CH		
		Secondry		Secondary mode
	Dim Curve	**Linear**		
		Square		
		Inv. Squa		
		S Curve		
	Frequen	900 Hz		
		1000 Hz		
		1100 Hz		
		1200 Hz		
		1300 Hz		
		1400 Hz		
		1500 Hz		
		2500 Hz		
		4000 Hz		
		5000 Hz		
		10 kHz		
		15 kHz		
		20 kHz		
		25 kHz		

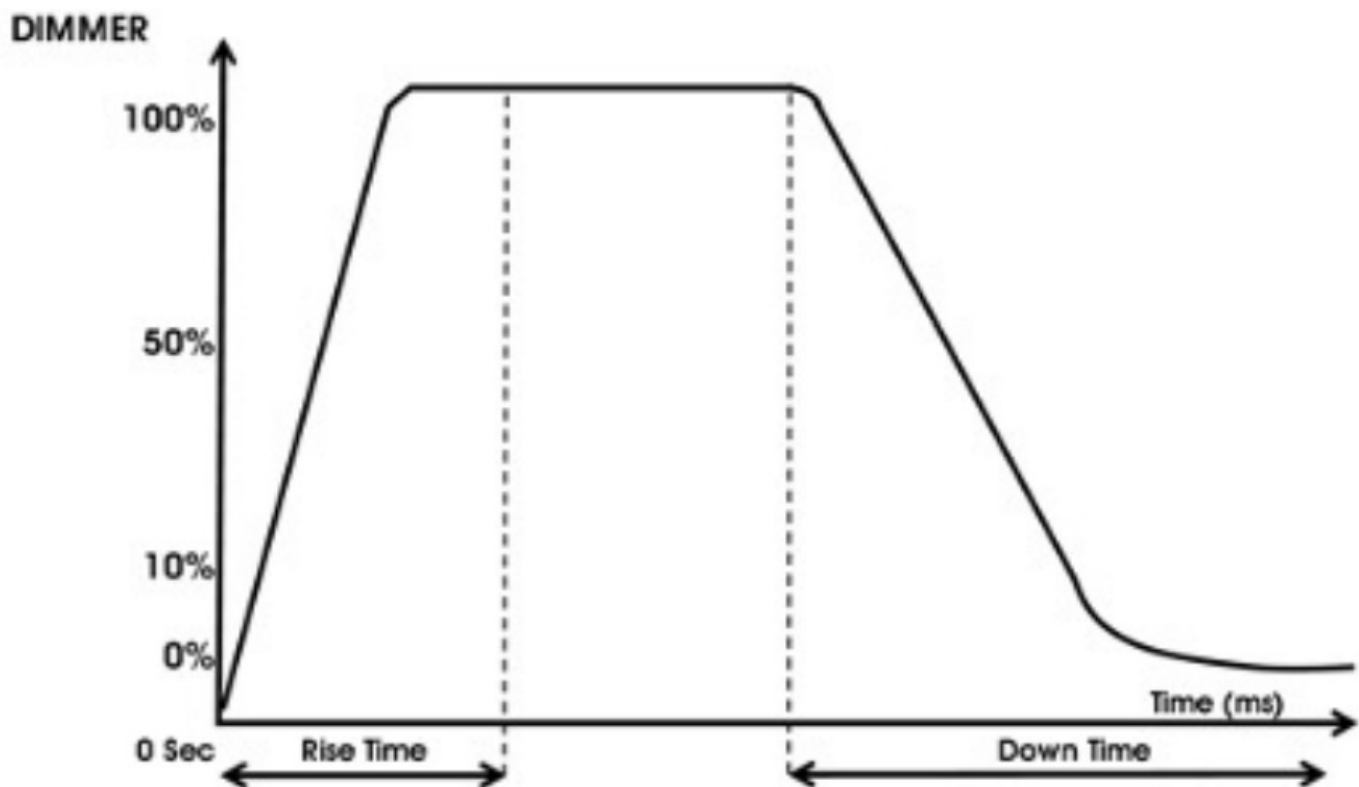|				
FUNCTION (continued)	Primary	On / **Off**		Set device as Pri- ma ry
	DFSE	On / **Off**		Restory factory defau lt settings
INFO	TimeInfo	Current		Current fixture run ti me (hours)
		Total		Total fixture run time (hours)
		Last		Clear fixture run time
		Password		"050" or "060"
		Clear	On / **Off**	
	Model Inf	PD8IP		
	Software	V1.01		
TEST	ManCtrl	Led1	**000** – 255	
		Led2	**000** – 255	
		Led3	**000** – 255	
		Led4	**000** – 255	
		Led5	**000** – 255	
		Led6	**000** – 255	
		Led7	**000** – 255	
		Led8	**000** – 255	
		Dimmer	**000** – 255	
		Strobe	**000** – 255	
	Calibrat	Password	Led1	050 – 255
			Led2	050 – 255
			Led3	050 – 255
			Led4	050 – 255
			Led5	050 – 255
			Led6	050 – 255

| Led7 | 050 – 255 |
| Led8 | 050 – 255 |

DMX CHANNEL FUNCTIONS & VALUES
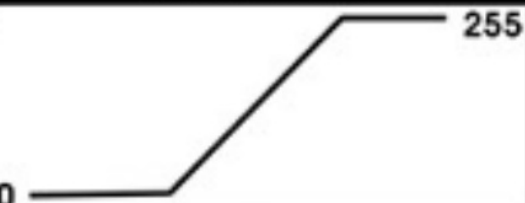
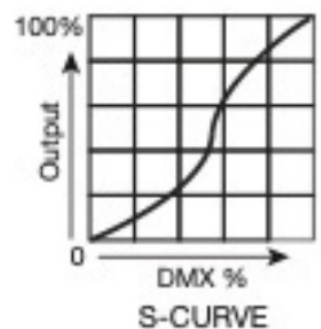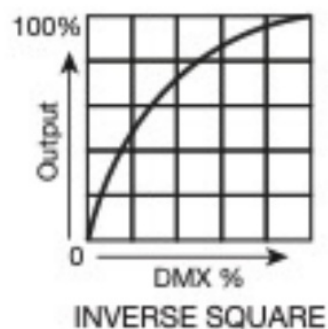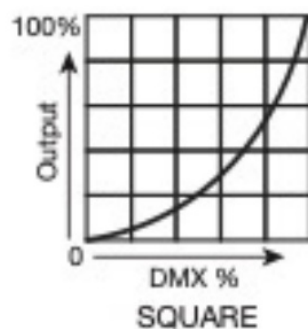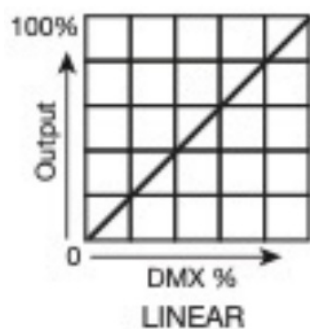| Magmatic Prisma Driver 8IP: DMX Channels / Functions				
Supports Software Versions: 1.01				
CHANNEL			**DMX VALUE**	**FUNCTION**
8-CH	**9-CH**	**12-CH Ext**		
1	1	1	000 – 255	**LED Signal Output 1**
2	2	2	000 – 255	**LED Signal Output 2**
3	3	3	000 – 255	**LED Signal Output 3**
4	4	4	000 – 255	**LED Signal Output 4**
5	5	5	000 – 255	**LED Signal Output 5**
6	6	6	000 – 255	**LED Signal Output 6**
7	7	7	000 – 255	**LED Signal Output 7**
8	8	8	000 – 255	**LED Signal Output 8**
		9	000 – 255	**Master Dimmer**
		10	000 – 255	**Dimmer Fine**
		11		**Strobe**
			000 – 031	Closed
			032 – 063	Open
			064 – 095	Strobe, slow to fast
			096 – 127	Open
			128 – 159	Pulse, slow to fast
			160 – 191	Open
			192 – 223	Random Strobe, slow to fast
			224 – 255	Open
				Dim Mode
			000 – 020	Standard
			021 – 040	Stage
			041 – 060	TV
			061 – 080	Architectural

				081 – 100	Theatre
9		12		101 – 120	Stage 2
					Dimmer Delay Time
				121	0.0 s
				122	0.1 s
				123	0.2 s
9		12			**Dimmer Delay Time (continued)**
				124	0.3 s
				125	0.4 s
				126	0.5 s
				127	0.6 s
				128	0.7 s
				129	0.8 s
				130	0.9 s
				131	1.0 s
				132	1.5 s
				133	2.0 s
				134	3.0 s
				135	4.0 s
				136	5.0 s
				137	6.0 s
				138	7.0 s
				139	8.0 s
				140	9.0 s
				141	10.0 s
				132 – 255	Default (0.1 s)

DIMMER MODES

Select desired DIMMER MODE **(Standard,** Stage, TV, Architectural, Theatre, Stage2).

DIMMER

	0 sec Fade Time		1 sec Fade Time	
Dimming Curve Ramp Effect				
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660

LINEAR

SQUARE

INVERSE SQUARE

S-CURVE

SPECIFICATIONS

CONSTRUCTION
Rugged IP65 Housing
Easy Keyhole Slots for Wall/Surface Mounting

CONTROL

Multiple DMX Channel Modes
Onboard 4 Button Touch Control Panel
DMX-512 and RDM Protocol Support

CONNECTIONS
8x 4pin locking output sockets (8 PRISMA MINI fixtures max)
Locking 5pin XLR Connector In/Out
IP65 Locking Power Connector In/Out
With Wired Digital Communication Network

SIZE / WEIGHT
Length: 4.05 in. (102.9mm)
Width: 10.4 in. (264.3mm)
Height: 8.74 in. (221.9mm)
Weight: 8.05 lbs. (3.65 kg)

ELECTRICAL
AC90-240V, 50-60Hz
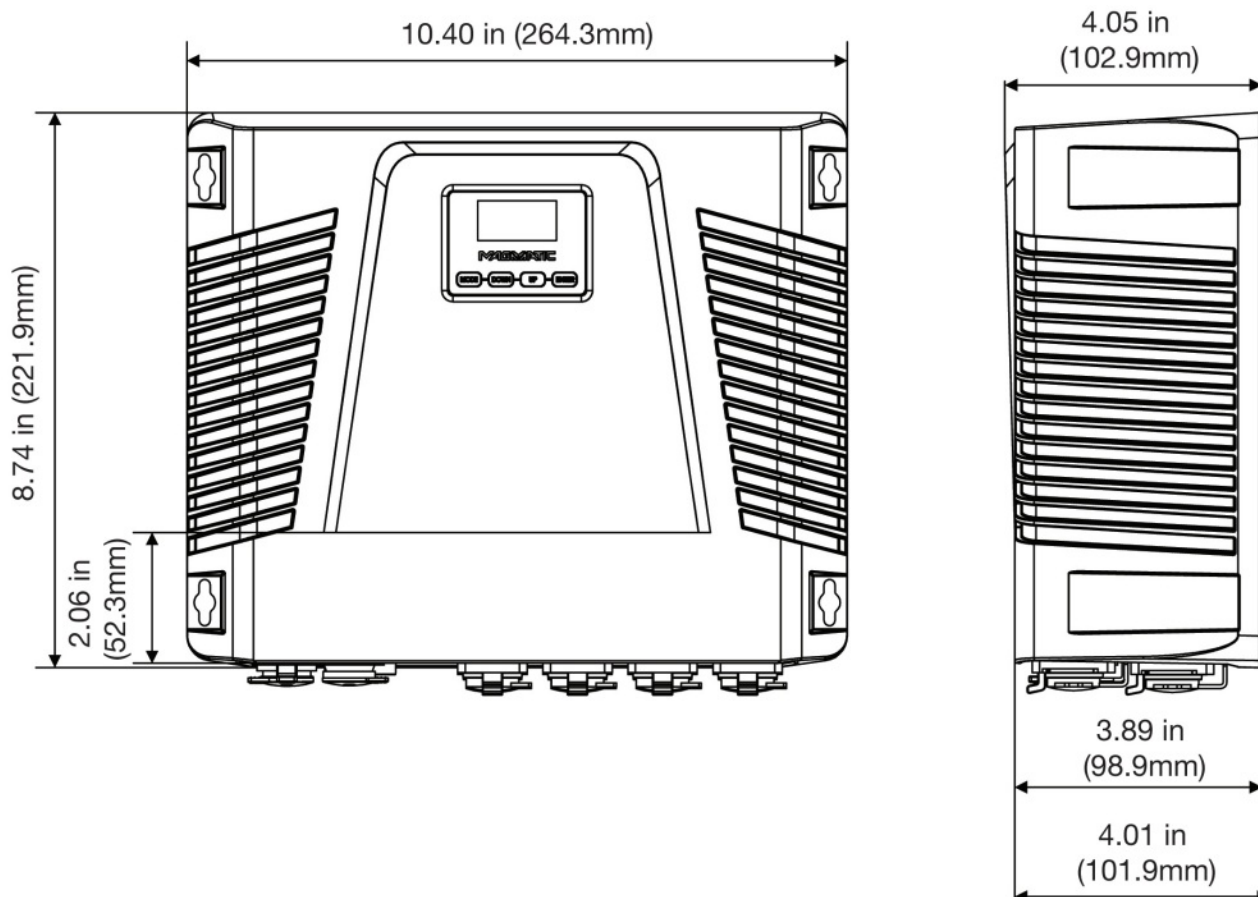48VDC 8.3A
167W Max Power Consumption

THERMAL
Maximum Temperature (Ambient): 113° F (45° C)
Minimum Temperature (Ambient): 14° F (-10° C)

APPROVALS / RATINGS
CE | cETLus *Pending | IP65\

Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

DIMENSIONAL DRAWINGS

Documents / Resources

MAGMATIC **PRISMA DRIVER 8IP** User Manual	**MAGMATIC 8IP Prisma Driver System** [pdf] User Manual 8IP Prisma Driver System, 8IP, Prisma Driver System

References

- **Topics | Elation Lighting Forums**
- **Home page**
- **Elation Professional - Professional Lighting Products**
- **Elation Professional EUROPE - Professional Lighting Products**