

# ELATION | IPC415™ | user manual

## IPC415™

### user manual

©2017 **ELATION PROFESSIONAL** all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. ELATION PROFESSIONAL logo and identifying product names and numbers herein are trademarks of ELATION PROFESSIONAL. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-ELATION brands and product names are trademarks or registered trademarks of their respective companies.

**ELATION PROFESSIONAL** and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

**Elation Professional USA** | 6122 S. Eastern Ave. | Los Angeles, CA. 90040  
323-582-3322 | 323-832-9142 fax | [www.elationlighting.com](http://www.elationlighting.com) | [info@elationlighting.com](mailto:info@elationlighting.com)

**Elation Professional B.V.** | Junostraat 2 | 6468 EW Kerkrade, The Netherlands  
+31 45 546 85 66 | +31 45 546 85 96 fax | [www.elationlighting.eu](http://www.elationlighting.eu) | [info@elationlighting.eu](mailto:info@elationlighting.eu)



## **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](http://www.elationlighting.com) for the latest revision/update of this manual, before beginning installation and/or programming.**

<b>Date</b>	<b>Document Version</b>	<b>Software Version ≥</b>	<b>DMX Channel Modes</b>	<b>Notes</b>
10/04/17	1	B1.1 V1.0	1 /4	Initial release.
02/05/18	1.2	N/C	NO CHANGE	Updated manual format.

# CONTENTS

General Information	4
Warranty	6
Safety Instructions and Guidelines	7
Overview	9
Installation	11
System Menu	13
DMX Channel Functions And Values	15
Technical Specifications	16
Optional Accessories	17

# GENERAL INFORMATION

## **INTRODUCTION**

This device has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important information regarding safety during use and maintenance.

## **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 appears to be damaged, carefully inspect device for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event 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 at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

## **BOX CONTENTS**

(1) 12AWG/3 Bare Wire powerCON Cable

## **CUSTOMER SUPPORT**

Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at [www.elationlighting.com](http://www.elationlighting.com) for any comments or suggestions. For service related issue please contact Elation Professional®.

### **ELATION SERVICE USA - Monday - Friday 8:00am to 5:00pm PST**

**Voice: 323-582-3322**

**Fax: 323-832-9142**

E-mail: [support@elationlighting.com](mailto:support@elationlighting.com)

### **ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET**

**Voice: +31 45 546 85 30**

**Fax: +31 45 546 85 96**

E-mail: [support@elationlighting.eu](mailto:support@elationlighting.eu)

## **WARRANTY RETURNS**

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

## **IMPORTANT NOTICE!**



**There are no user serviceable parts inside this device. Do not attempt any repairs yourself; doing so will void your manufactures warranty. Damages resulting from modifications to this device and/or the disregard of safety and general user instructions found in this user manual void the manufactures warranty and are not subject to any warranty claims and/or repairs.**

## LIMITED WARRANTY

A. Elation Professional® hereby warrants, to the original purchaser, Elation Professional® products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional® product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 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 Elation Professional® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional® 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, Elation Professional® 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 Elation Professional® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional® factory unless prior written authorization was issued to purchaser by Elation Professional®; 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, Elation Professional® 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 Elation Professional® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional®. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

E. Elation Professional® 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 Elation Professional® 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 Elation Professional® 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 Elation Professional® products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

# SAFETY INSTRUCTIONS AND GUIDELINES

This device is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. The manufacturer of this device 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 device and only the original rigging parts included with this device should be used for installation. Any modifications to the device and/or the mounting hardware included will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



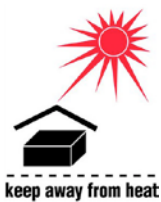
**PROTECTION CLASS 1 - DEVICE MUST BE PROPERLY GROUNDED  
ELECTRICAL CONNECTIONS BY QUALIFIED PERSONNEL ONLY!**



**INDOORS USE ONLY!  
DO NOT EXPOSE DEVICE RAIN AND MOISTURE!**



**DO NOT PLUG DEVICE INTO A DIMMER PACK!  
NEVER OPEN THIS DEVICE WHILE IN USE!  
UNPLUG POWER BEFORE SERVICING DEVICE!**



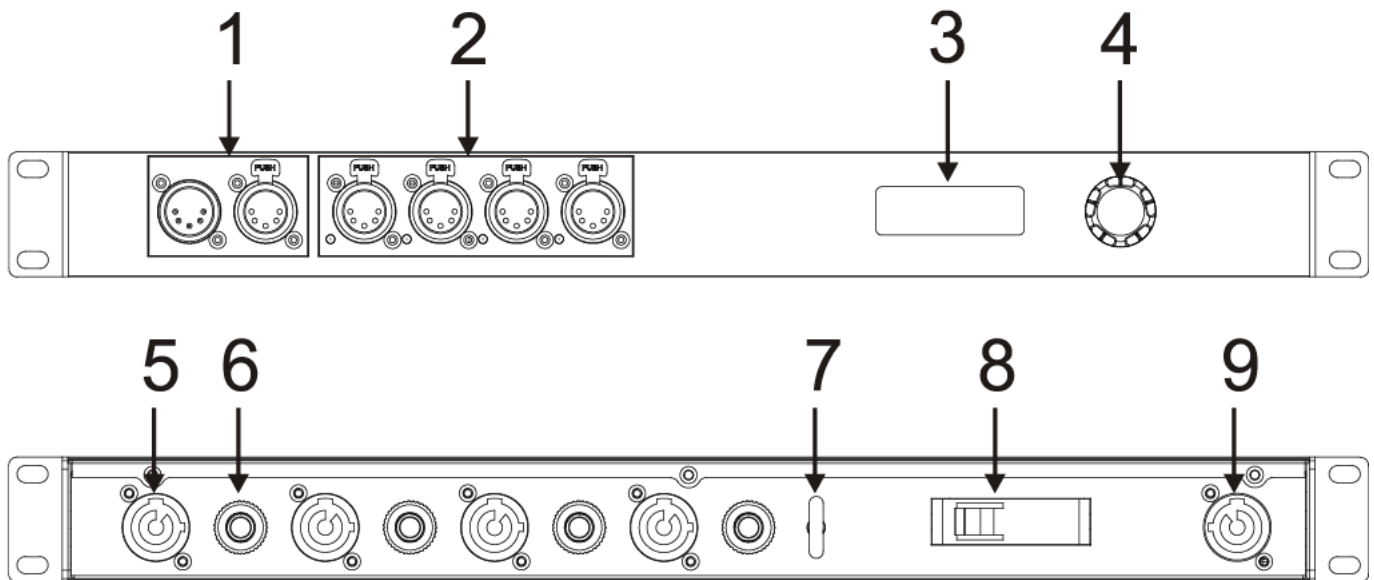
**KEEP FLAMMABLE MATERIALS AWAY FROM DEVICE!  
DO NOT EXPOSE DEVICE TO HEAT OR FIRE!  
AMBIENT TEMPERATURES: MAX 45°C/113°F | MIN 2°C/35°F  
DO NOT EXPOSE DEVICE TO FLAMMABLE MATERIALS!  
DO NOT EXPOSE DEVICE TO HIGH HUMIDITY!  
DO NOT EXPOSE DEVICE TO EXTREME VIBRATIONS!**

## SAFETY INSTRUCTIONS AND GUIDELINES

- **DO NOT** shake device, avoid brute force when installing and/or operating.
- **DO NOT** operate device if the power cord has become frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the device securely 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 never blocked.
- When installing device in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always use an appropriately rated safety cable (not included).
- 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, never pull out the plug by tugging the wire portion of the cord.
- Use the original packaging and materials to transport the device in for service.

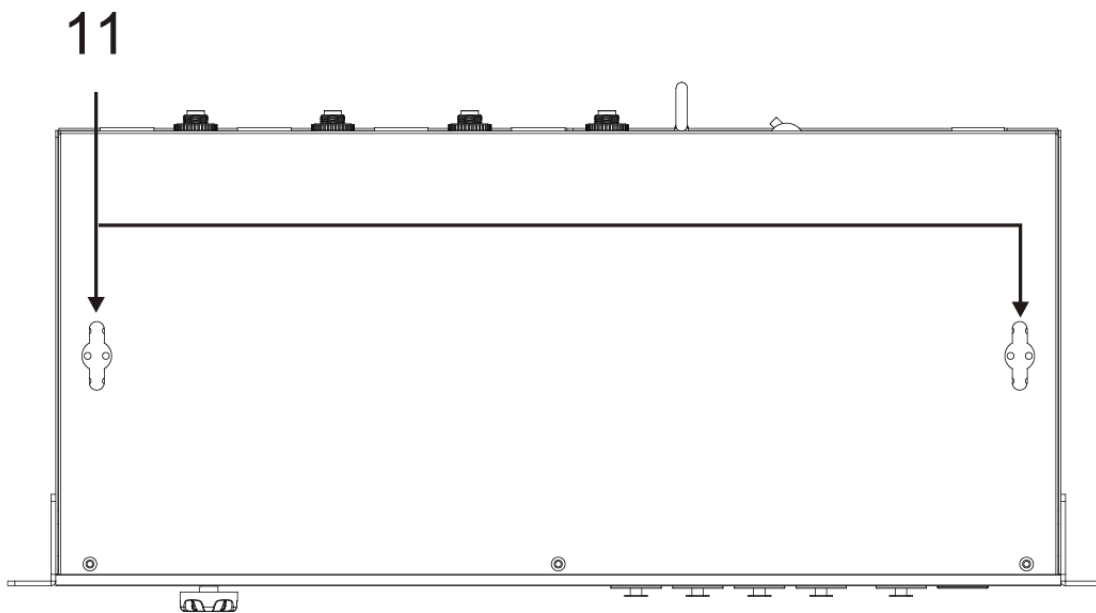
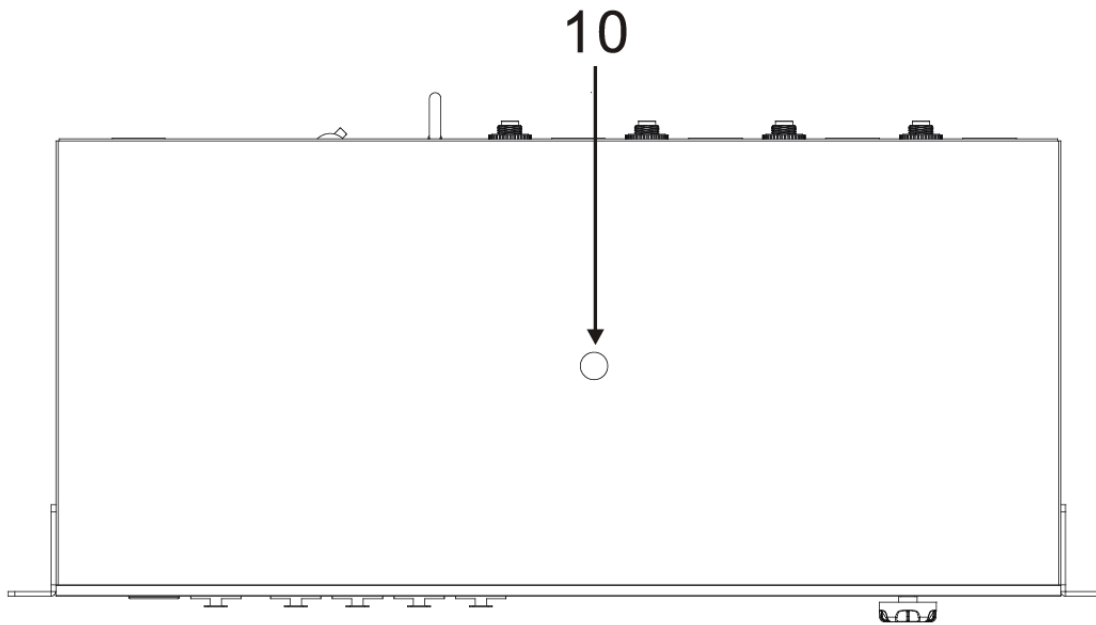


## OVERVIEW



1. 5pin DMX IN/OUT
2. Isolated 5pin DMX Outputs (x4)
3. OLED Control Menu Display
4. Encoder Wheel
5. powerCON 15 amp Outputs (NAC3MPB-1 x4)
6. Fuses (15 amp x4)
7. Safety Cable Loop (cable not included)
8. Main Power Switch (20 amp)
9. powerCON 20 amp Main Power Input (NAC3MPA-1)

## OVERVIEW



**10. M10 Screw Clamp Hole (Clamp not included)**

**11. Wall Mounting Keyhole Cutouts**

## INSTALLATION



### **FLAMMABLE MATERIAL WARNING**

Keep device at least 5.0 feet (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.



### **ELECTRICAL CONNECTIONS**

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

### **DO NOT INSTALL THE DEVICE 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.

Ambient operating temperature range for this device is **35° to 113°F. (2° to 45°C)**

Do not use the device under or above this temperature range.

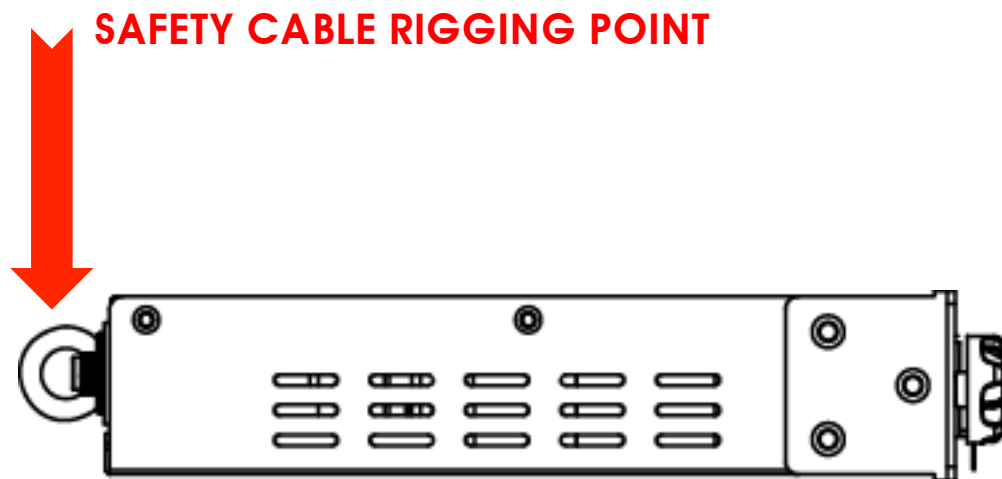
Device can be placed on the flat surface or rack mounted in a standard 19-inch single rack space (rack screws not included).

For added protection, do not install the device in areas where unauthorized personnel might reach the device.

## CLAMP INSTALLATION

When mounting to truss, secure an appropriately rated clamp (not included) to the device. Be sure to attach a **Safety Cable (not included)** to the device using the safety cable rigging point integrated into the back of the device.

(See image below)



## SAFETY CABLE

**ALWAYS ATTACH A SAFETY CABLE TO THE DEVICE WHENEVER INSTALLING IN A SUSPENDED ENVIRONMENT TO ENSURE THE DEVICE WILL NOT DROP IF CLAMP FAILS.**

## SYSTEM MENU

Pressing the **ENCODER WHEEL** once will access the (11) main system menus. Rotate the **ENCODER WHEEL** clockwise or counterclockwise to scroll through the (11) different system menus then push the **ENCODER WHEEL** to select a desired menu. Rotate the **ENCODER WHEEL** clockwise or counterclockwise to navigate the available setting options for each sub-menu. Setting changes are made using a combination of rotating/ pushing the **ENCODER WHEEL**.

(System Menu on next page)

### OLED CONTROL DISPLAY

The device has an easy to read OLED display that provides status and system menu setting information. At initial power on the display will provide the following details.

#### FIRST ROW (Top line of display)

Displays Power Setup the device is set to which in the example below is **“Turn Off”**.

(See System Menu on next page)

#### SECOND ROW

Displays status of each of the DMX Outputs (1-4) and the current system time.

In the example below, DMX Outputs 1 and 2 are not connected which is illustrated by **“x”** and DMX Outputs 3 and 4 are connected which is illustrated by **“√”**.

The system time can be adjusted accordingly. (See System Menu on next page)

**Turn Off**

1	2	3	4	10 00:00 am
X	X	√	√	Thur. ⌚

MAIN MENU	SUB MENUS				
1. DMX Address	001-512				
2. DMX Channels	1. 1CH 2. 4CH				
3. Power Setup	1. Turn Off				
	2. Turn On				
	3. On/Off Via DMX				
	4. On/Off if DMX On				
	5. Scheduler				
	6. Exit				
4. Output Delay	1. All Power Ports	1. All Ports On (0-120s)			
		2. All Ports Off (0-120s)			
		3. Exit			
	2. Unt Power Port	1. Power Port 1	1. Port 1 (2,3,4) On (0-120s) 2. Port 1 (2,3,4) Off (0-120s) 3. Exit		
		2. Power Port 2			
		3. Power Port 3			
4. Power Port 4					
5. Exit					
5. Scheduler	1. Scheduler (On/Off)				
	1. Event 1 2. Event 2 3. Event 3 4. Event 4 5. Event 5 6. Event 6 7. Event 7 8. Event 8 9. Exit	2. Power Output	1. All Power Ports	1. All Ports On (0-120s) 2. All Ports Off (0-120s) 3. Exit	
			2. Unit Power Port	1. Power Port 1 On 2. Power Port 2 On 3. Power Port 3 On 4. Power Port 4 On 5. Exit	1. Port 1 (2,3,4) On (0-120s) 2. Port 1 (2,3,4) Off (0-120s) 3. Exit
				3. Exit	
		3. Week Setup Every.		Monday Tuesday Wednesday Thursday Friday Saturday Sunday Everyday	
		4. Time Setup		01-12   01-59   am/pm	
		5. Exit			
		6. Date&Time		00/00/0000 00:00xm	
		7. Back Light	1. ON		
			2. OFF		
	8. Set LED Brightness	000-010			
	9. Factory Setting	1. NO			
		2. YES			
	10. Information	Bx.x Vx.x			
	11. Exit				

# DMX CHANNEL FUNCTIONS AND VALUES

ELATION IPC415			
DMX Channel Values / Functions (4 Total DMX Channels)			
Supports Software Versions: $\geq$ B1.1 V1.0			
Features are subject to change without any prior written notice.			
MODE / CHANNEL		VALUE	FUNCTION
CH 1	CH 4		
1	1		DMX VALUE MOVEMENT 0-255
		0-149	OFF
		150-255	ON
			DMX VALUE MOVEMENT 255-0
		255-101	ON
		100-0	OFF
N/A	2		DMX VALUE MOVEMENT 0-255
		0-149	OFF
		150-255	ON
			DMX VALUE MOVEMENT 255-0
		255-101	ON
		100-0	OFF
N/A	3		DMX VALUE MOVEMENT 0-255
		0-149	OFF
		150-255	ON
			DMX VALUE MOVEMENT 255-0
		255-101	ON
		100-0	OFF
N/A	4		DMX VALUE MOVEMENT 0-255
		0-149	OFF
		150-255	ON
			DMX VALUE MOVEMENT 255-0
		255-101	ON
		100-0	OFF



**CHANNEL FUNCTION IS SPECIFIC TO DMX VALUE MOVEMENT DIRECTION**  
**0-255 DMX VALUE (OFF/ON) vs. 255-0 DMX VALUE (ON/OFF)**

# TECHNICAL SPECIFICATIONS

## CONTROL / CONNECTIONS

(2) DMX Channel Modes (1 / 4)  
Encoder Wheel  
Internal On/Off Scheduler  
OLED Control Menu Display  
5pin XLR DMX Input  
5pin XLR DMX Output (Thru-put)  
(4) 5pin XLR DMX Outputs  
(4) powerCON 15 amp Outputs (NAC3MPB-1)  
Main 20 amp Power Switch  
powerCON Power Input (NAC3MPA-1)  
Rack Ears (fits standard 19-inch single rack space)  
M10 Screw Hole for Clamp (clamp not included)  
Safety Cable Loop (cable not included)

## SIZE / WEIGHT

Length: 19.0" (482mm)  
Width: 9.1" (232mm)  
Vertical Height: 1.7" (44mm)  
Weight: 6.6 lbs. (3.0 kg)

## ELECTRICAL / THERMAL

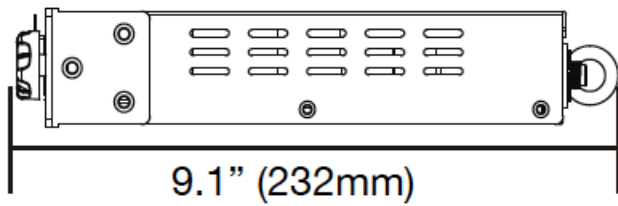
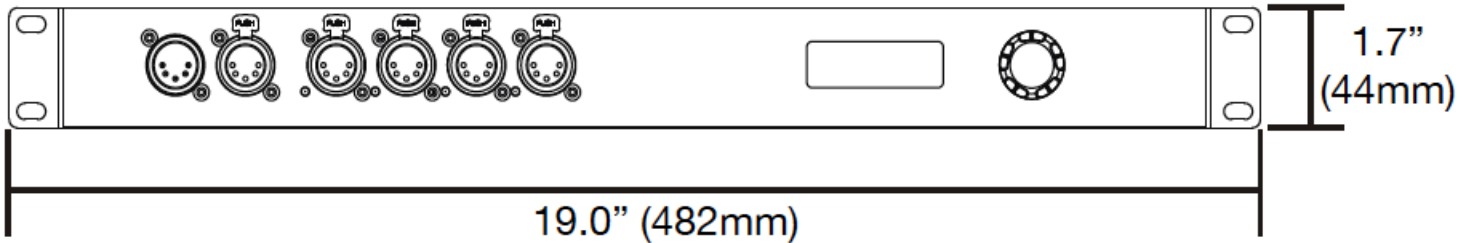
AC 100-240V - 50/60Hz  
7W Power Consumption (NO devices connected)  
35°F to 113°F (2°C to 45°C)

## APPROVALS / RATINGS

CE |



## DIMENSIONAL DRAWINGS



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

## OPTIONAL ACCESSORIES

ORDER CODE	ITEM
PRO-CLAMP	Heavy Duty 2 inch Pro Clamp
SCABLE60	Safety Cable 24" (610mm) 60 lbs. (27kg) Rating
AC3PDMX5PRO	5 ft. (1.5m) 3pin PRO DMX Cable
AC5PDMX5PRO	5 ft. (1.5m) 5pin PRO DMX Cable
	Additional Cable Lengths Available

