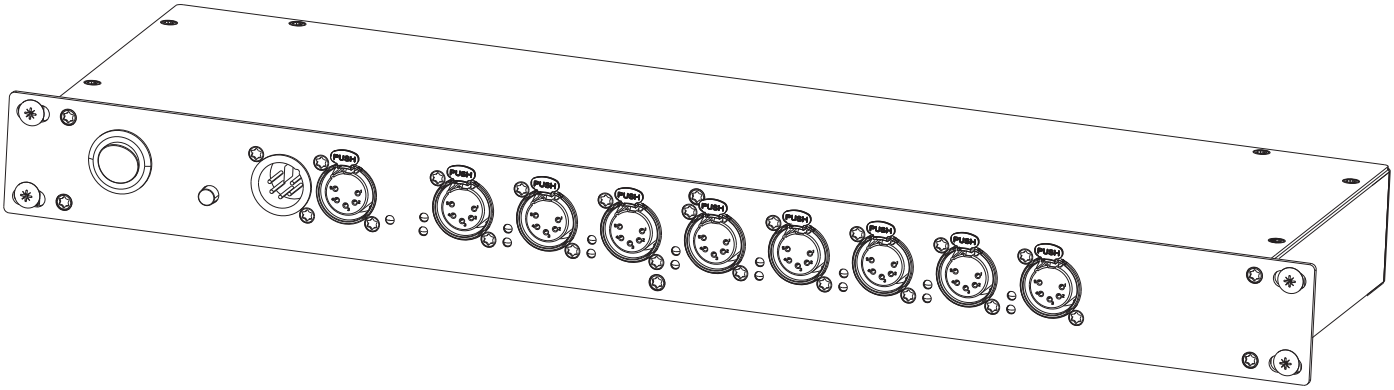


# RDM XS8

User Manual

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Europe Energy Saving Notice
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

## DOCUMENT VERSION

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

| Date | Document Version | Software Version > | DMX Channel Mode | Notes |
|---|---|---|---|---|
| 03/18/24 | 1.0 | V2.1 | N/A | Initial Release |
| 05/08/24 | 1.1 | N/C | N/A | Updated Specifications, Overview, Fuse Location, Operation, FCC Statement |
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# GENERAL INFORMATION

**INTRODUCTION**
Please read and understand all instructions in this manual carefully and thoroughly before attempting to operate these products. These instructions contain important safety and use information.

**UNPACKING**
This 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 the device for damage and be sure all accessories necessary to operate the device 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.

**CUSTOMER SUPPORT**
Contact ADJ Service for any product related service and support needs. Also visit **forums.adj.com** with questions, comments or suggestions.

***Parts:*** To purchase parts online visit:
**http://parts.adj.com (US)**
**http://www.adjparts.eu (EU)**

**ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST**
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**WARNING!** To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture!

**CAUTION!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, as 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 claims and are not subject to any warranty claims and/or repairs.

*Do not discard the shipping cartoon in the trash. Please recycle when ever possible.*

# LIMITED WARRANTY (USA ONLY)

A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). 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, you must obtain a Return Authorization number (RA#) before sending back the product-please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.

C. This warranty is void of the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product, if the product has been repaired or service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contact, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warrant service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.

E. ADJ Products, LLC reserves the right to make changes in design and/or 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 products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has 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 ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

**LIMITED WARRANTY PERIODS**

- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty) Note: 2 Year Warranty only applies to purchases within the United States.
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

# WARRANTY REGISTRATION

This device carries a 2 year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by 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 included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain an R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying an R.A. number on the outside of the package will be returned to the shipper.

# FEATURES

- DMX512 and RDM protocol
- 19” Rack Mount
- 1x Indoor 5pin XLR Input
- 1x Indoor 5pin XLR Thru
- 8x Indoor 5pin XLR Outputs
- Link Out Termination Switch
- DMX / RDM Protocol Switch

**INCLUDED ITEMS**

- Power Cord (x1)

# SAFETY GUIDELINES

To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ Products, LLC is not responsible for injury and/or damages resulting from the misuse of this device 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 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, AS 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.**

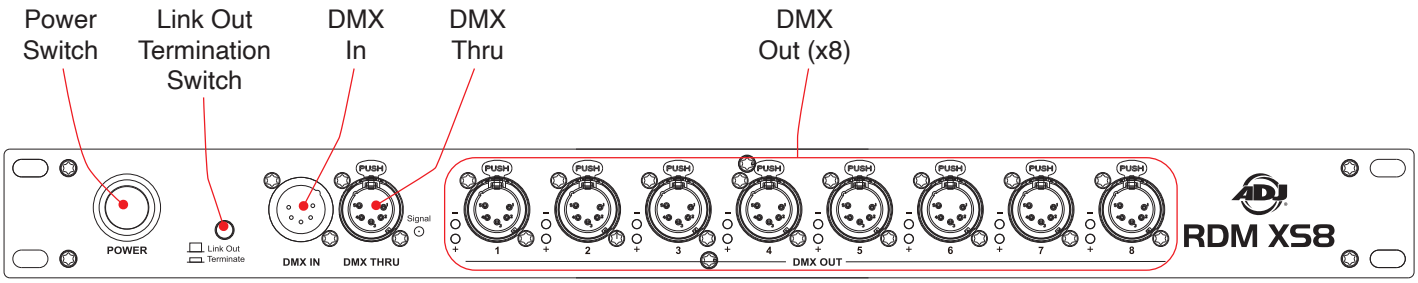
**DO NOT PLUG DEVICE INTO A DIMMER PACK!**
**NEVER OPEN THIS DEVICE WHILE IN USE!**
**UNPLUG POWER BEFORE SERVICING DEVICE!**
**AMBIENT TEMPERATURE RANGE IS 32°F TO 113°F (0°C TO 45°C). DO NOT OPERATE WHEN AMBIENT TEMPERATURE FALLS OUTSIDE OF THIS RANGE!**
**KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**

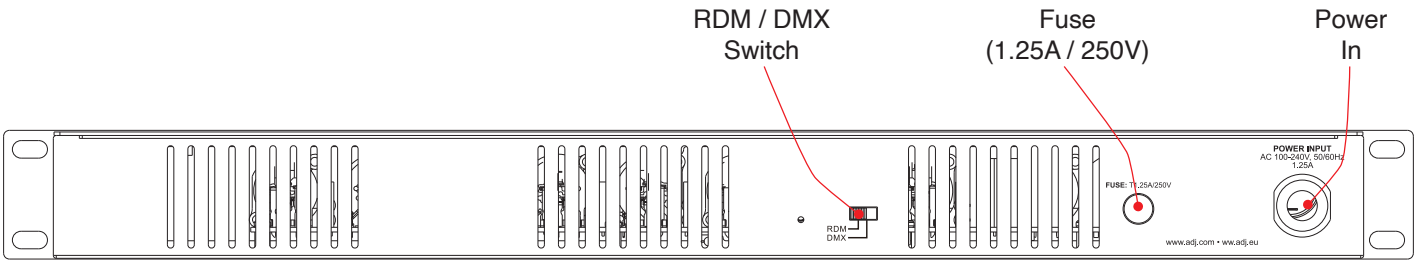
**IF THE FIXTURE IS EXPOSED TO ENVIRONMENTAL TEMPERATURE CHANGES SUCH AS RELOCATION FROM AN OUTDOOR COLD TO AN INDOOR WARM ENVIRONMENT, DO NOT POWER THE FIXTURE ON IMMEDIATELY. INTERNAL CONDENSATION AS A RESULT OF ENVIRONMENTAL TEMPERATURE CHANGE CAN CAUSE INTERNAL FIXTURE DAMAGE. LEAVE THE FIXTURE POWERED OFF UNTIL IT HAS REACHED ROOM TEMPERATURE BEFORE POWERING ON.**

# SAFETY GUIDELINES

- For your own personal safety, please read and understand this manual in its entirety before attempting to install or operate this device.
- Save the packing carton for use 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 the local power outlet matches the required voltage for the device
- Do not remove the outer casing of the device for any reason. There are no user serviceable parts inside.
- Disconnect the device's main power when left unused for long periods of time.
- Never connect this device to a dimmer pack
- Do not attempt to operate this device if it has been damaged in any way.
- Never operate this device with the cover removed.
- To reduce the 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 or broken.
- Do not attempt to 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.
- Disconnect from main power before making any type of connection.
- Never block the ventilation holes. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- This unit is intended for indoor use only. Use of this product outdoors voids all warranties.
- Always mount 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.
- Maximum ambient operating temperature is **32°F to 113°F (0°C to 45°C).** Do not operate this device when ambient temperature exceeds this value!
- Keep flammable materials away from this fixture!
- The device should be serviced by qualified service personnel when:
  A. The power-supply cord or the plug has been damaged.
  B. Objects have fallen on, or liquid has been spilled into, the device.
  C. The device has been exposed to rain or water.
  D. The appliance does not appear to operate normally or exhibits a marked change in performance.

# OVERVIEW


Power Switch
Link Out Termination Switch
DMX In
DMX Thru
DMX Out (x8)
POWER
Link Out
Terminate
DMX IN
DMX THRU
Signal
PUSH
1
2
3
4
5
6
7
8
DMX OUT
RDM XS8


RDM / DMX Switch
Fuse (1.25A / 250V)
Power In
RDM
DMX
FUSE: T1.25A/250V
POWER INPUT
AC 100~240V, 50/60Hz
1.25A
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# INSTALLATION

**FLAMMABLE MATERIAL WARNING**
**Keep device at least 8in. (0.2m) away from any flammable materials, decorations, pyrotechnics, etc.**

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

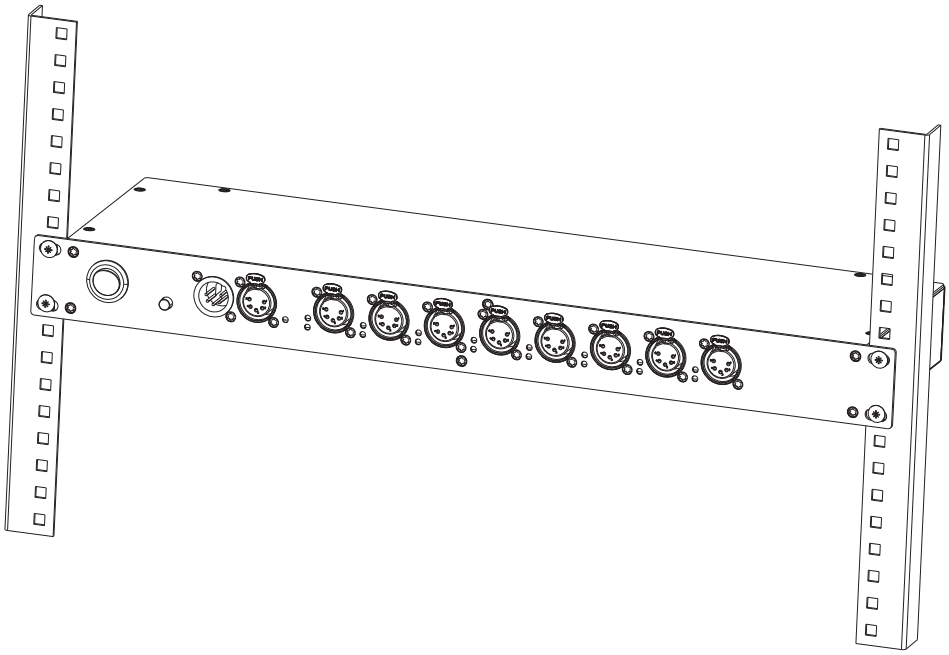
**MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 40 FEET (12 METERS)**

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

Maximum ambient operating temperature is **113°F (45°C).** Do not use this device when ambient temperature falls exceeds this value!

Device should be installed away from walking paths, seating areas, or areas where unauthorized personnel might reach the device by hand.

**RACK MOUNTING**
This device can be mounted in a standard 19-inch rack using the mounting brackets located on each side of the device. Make sure to use mounting hardware that fits the mounting holes on the device as well as the rack itself. Use all four (4) points on the mounting brackets to ensure that the device is mounted securely. Please see the illustration below for reference.



**MULTIPLE DEVICES**
Up to **32 devices** may be daisy-chained directly together and linked to a single controller. Do NOT exceed this maximum number of directly connected units. Please note that the Link Out / Termination Switch must be in the “Link Out” position in order to use this feature, except for the last unit in line, which must should have the switch set to the “Termination” position.

# 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, and allows 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:**

| Device ID | Device Model ID | RDM Code | Personality ID |
|---|---|---|---|
| N/A | N/A | 0x1900 | N/A |

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 features that you require.

# OPERATION

## DMX MODE

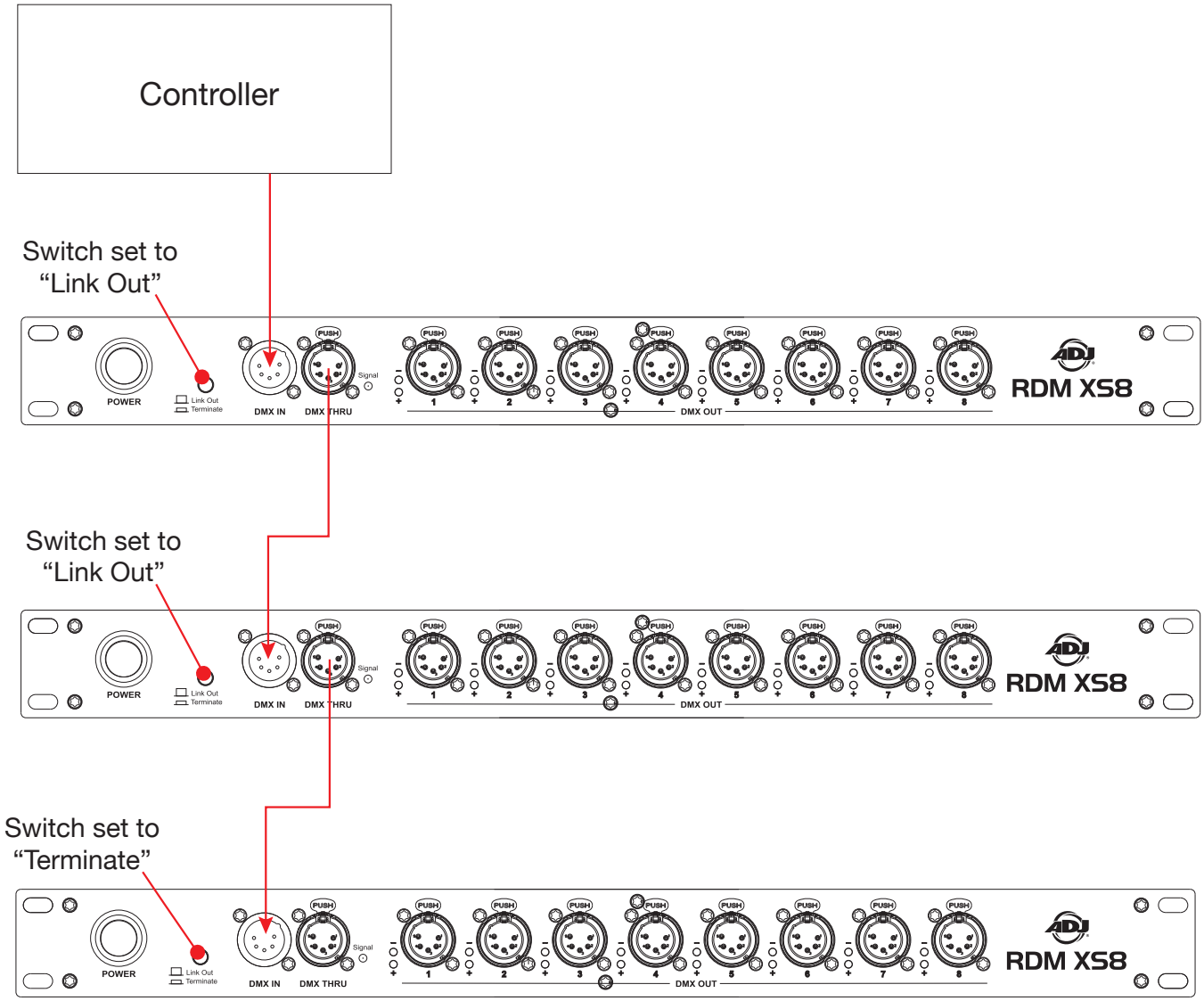
To activate this mode, move the RDM/DMX Switch to the “DMX” position. The RDM XS8 will then output the received DMX signal ***WITHOUT RDM*** to any devices connected to the six (6) DMX Output ports.

## RDM MODE

To activate this mode, move the RDM/DMX Switch to the “RDM” position. The RDM XS8 will then output the received DMX signal ***WITH RDM*** to any devices connected to the six (6) DMX output ports.

## LINK OUT / TERMINATION SWITCH

When this switch is in the “Link Out” position, the RDM XS8 will also pass signal through the “DMX Thru” port. This signal can be sent to additional RDM XS8 units by connecting the “DMX Thru” port of the first unit to the “DMX In” port of the next unit in line, as shown in the illustration below. Up to 32 units may be linked together in this way. The final unit in line should have the switch set to the “Terminate” position.



# CLEANING AND MAINTENANCE

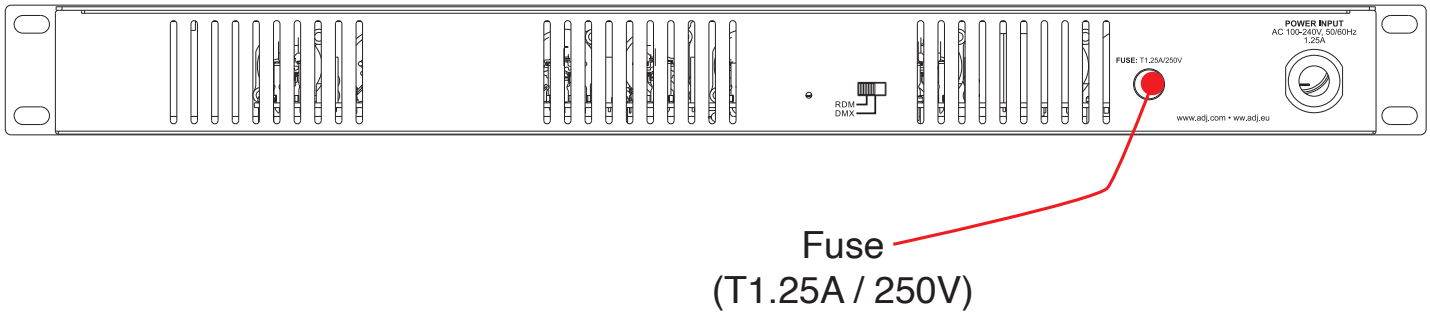
Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

- Use normal glass cleaner and a soft cloth to periodically wipe down the outside casing.
- Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

**FUSE REPLACEMENT**

This device features a replaceable fuse located alongside the power cord on the back side of the device, as shown in the illustration below. When changing the fuse, replace the fuse only with an identical ***T1.25A / 250V*** fuse.




# ORDERING INFORMATION

| SKU (US) | SKU (EU) | ITEM |
|---|---|---|
| RDM800 | 132100008 | ADJ RDM XS8 |

# SPECIFICATIONS

**Protocols:**
- DMX512
- RDM

**Physical:**
- 19” Rack Mount
- 1x Indoor 5pin XLR Input
- 1x Indoor 5pin XLR Thru
- 8x Indoor 5pin XLR Outputs
- Link Out Termination Switch
- DMX / RDM Protocol Switch

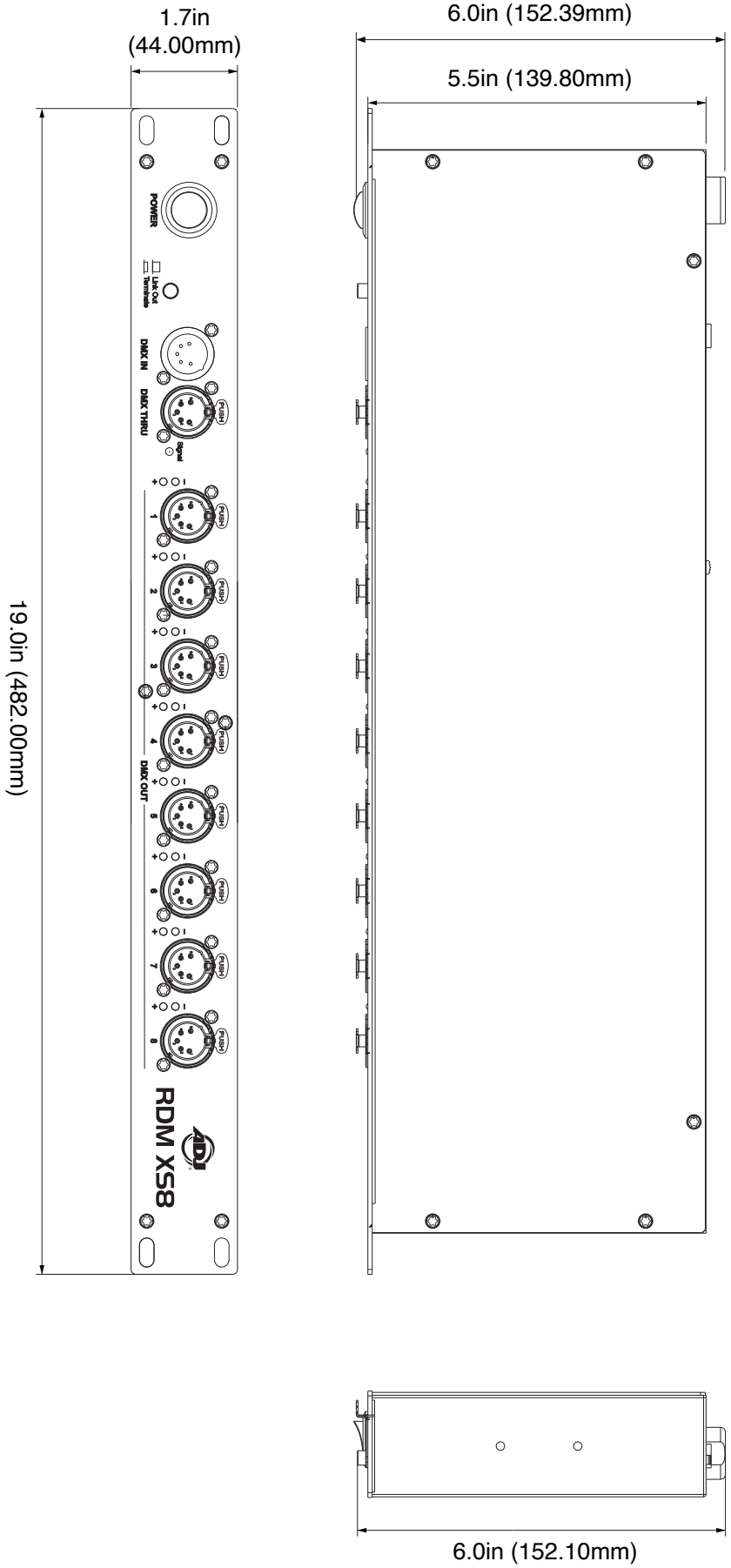
**Dimensions & Weight:**
- Length: 6” (152.4mm)
- Width: 19” (482mm)
- Height: 1.73” (44mm)
- Weight: 4.87lbs. (2.21kg)

**Power:**
- AC Input: 100-240V 50/60Hz
- Power Consumption: 3.1W @ 120V and 3.3W @ 230V
- Power Input Protection: Fuse, T1.25A/250V (5.2x20mm)

**Thermal:**
- Ambient Operational Temperature: 32°F to 113°F (0°C to 45°C)
- Humidity: <75%
- Storage Temperature: 77°F (25°C)

**Certifications & IP Rating:**
- CE
- cETLus
- UKCA
- FCC
- IP20

# DIMENSIONAL DRAWINGS



# FCC STATEMENT

Please note that changes or modifications to this product that are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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