



DMX

BRANCH 419

DMX BOOSTER

User Instructions

Elation Professional®
4295 Charter Street
Los Angeles Ca. 90058
www.elationlighting.com

Revised 5/02

DMX Branch 419™

Introduction

Introduction: To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. The DMX Branch 419™ is a 4-way DMX signal distributor by Elation Professional®. This unit allows the user to split and boost a DMX signal anywhere in a DMX signal path, a function that is typically not recommended without the use of device similar to this one. The unit has been durably constructed in a rack mount chassis for convenient rackmount storage.

Unpacking: Thank you for purchasing the DMX Branch 419™ by Elation Professional®. Every DMX Branch 419™ 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 your unit 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 toll free customer support number for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below.

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 for any comments or suggestions. For service related issue please contact Elation Professional®. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (323) 582-3322
Fax: (323) 582-3108
E-mail: support@elationlighting.com

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, doing so will void your manufactures warranty.

Please do not discard the shipping carton in the trash. Please recycle when ever possible.

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Safety Issues: This unit may blow a fuse if the maximum allotted load of 0.5 amps is reached. If the fuse needs replacement, always replace the fuse with same exact type that was removed, unless otherwise instructed by an authorized Elation® service technician. Use of a different type fuse from that which is recommended may cause fire or electric shock and will void the manufactures warranty.

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit
- Do not attempt to operate this unit 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
- Do not remove the cover under any conditions. There are no user serviceable parts inside
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation.
- Do not attempt to operate this unit, if it becomes damaged
- This unit is intended for indoor use only, use of this product outdoors voids all warranties
- During long periods of non-use, disconnect the unit's main power
- Always mount this unit in safe and stable matter
- Power cords should be routed so they are not likely to be walked on, pinched by items placed upon or against them.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 7 for cleaning details
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The fixture does not appear to operate normally or exhibits a marked change in performance.

- Quality Neutrik Connections
- Easy Fuse Replacement
- Light Weight, Rackmount Case Design
- Built-In LED Indicators
- Terminate/Link Function Switch
- 3-pin and 5-pin XLR Connectors for Universal Connectivity
- 4 Channel Output
- Parallel Link Out Connectors

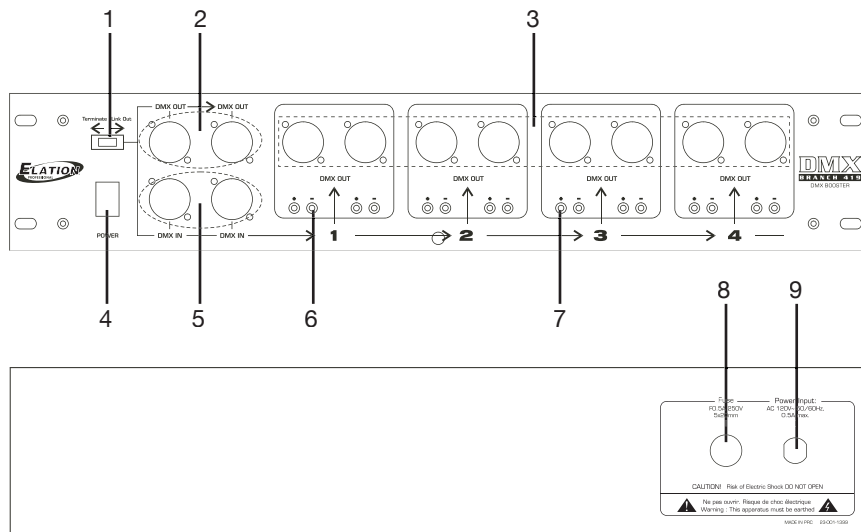
The DMX Branch 419™ carries a two year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly 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. You may obtain a R.A. number by contacting customer support at (323) 582-3322, extension 170.

Caution: Always replace with the exact same type fuse, unless otherwise specified by an authorized Elation® technician. Replacing with anything other than the specified part can damage your unit and will void your manufactures warranty.

Warning: If you continue to blow fuses, STOP using the unit. Contact customer support for further instructions, you may have to return the unit for servicing. Continuing to use the unit may cause serious damage.

Fuse Replacement:

Disconnect the unit's main power. Insert a standard flat head screw driver in to the fuse holder housing. Turn the screwdriver in counter-clockwise direction to remove the fuse holder. Remove the old fuse and discard it, replace the fuse with the same type. Insert the fuse holder back into it's housing and turn in clockwise direction to lock the holder in place.



1. Link Out / Terminate Selector - This switch is primarily meant for troubleshooting. When the switch is in the “Terminate” (left) position, The Parallel Link Output is turned off. You cannot link any more units. When the switch is in the “Link Out” position, it allows for signal of the parallel DMX output for linking more DMX Branch-419 units.

2. Parallel DMX Output - These Outputs are used to link out to a second DMX Branch-419. To be used for linking only.

3. Boosted DMX Output Section - The four DMX output channels are completely Optically and Electronically Isolated and feature an independent driver that boosts the DMX signal.

4. Power Switch - This is the main power switch and turns power on and off. When power is off the Parallel DMX Output Jacks (2) may be used but the *Boosted DMX Output Section* (3) will not function.

5. DMX Input - These jacks are used to capture an incoming DMX signal from either a DMX controller or any other DMX device sending a DMX output signal.

6. Green DATA (-) LED - Indicates that pin 2(-) polar negative, is making proper connection through out the data stream of the given output.

7. Red DATA (+) LED - Indicates that pin 3(+) polar positive, is making proper connection through out the data stream of the given output.

8. Fuse Holder - This unit is used to house the protective overload fuse. The fuse type is a GMA 0.5A 250V 5x20mm always replace with the same type fuse. To replace the fuse, please see the fuse replacement section on page 4.

9. Power Input: This device is designed to accept an AC signal of either 120v~50/60Hz or 220v~50Hz, be sure the power supply for your unit matches that of printed label on the unit.

The DMX Branch 419 is a 4-way DMX distributor with a 3-pin and 5-pin XLR input jack. Be sure to never connect more than one input source to this unit at a time. Two input jacks have been provided for universal connectivity only. This unit takes the incoming DMX signal and safely boost and splits the signal into four separate output channels. Each output channel and the input channel are completely electronically isolated from each other to avoid unwanted signal crosstalk that can cause erratic behavior.

All four output channels have independent output drivers. A 3-pin and 5-pin output connector is provided per a channel allowing the output of each channel to double when using both connectors at once.

Unit Cleaning:

Due to fog residue, smoke, and dust cleaning the exterior of the case may become necessary. Please follow the guidelines printed below for proper cleaning.

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

2 YEAR (730 DAYS) LIMITED WARRANTY

A. Elation® hereby warrants, to the original purchaser, Elation® products to be free of manufacturing defects in material and workmanship for a period of one year (365 days) from the date of purchase. 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® 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® 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, Elation® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

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

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, Elation® 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® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

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

H. Lamps are not covered under this or any other warranty either written or implied.

Model: DMX Branch 419™

Voltage*:	120v~50/60Hz
Fuse:	.5A GMA
Rackmount:	2 Space
Connections:	3-pin and 5-pin XLR
Dimensions:	3.5" H x 19" W x 7.25" D 482mm x 180mm x 85mm
Weight:	7 Lbs. / 3.5 Kg
Warranty:	2 Years (730 Days)

**Voltage is preset at the factory and can not be changed by the user.*

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

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