



PRO HAZE DMX

DMX Haze Generator



USER INSTRUCTIONS

Rev. 6/04

Elation Professional
4295 Charter Street
Los Angeles Ca. 90058
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Pro Haze DMX™

Introduction

Introduction:

The Pro Haze DMX is a professional hazer. It is capable of producing very large quantities of haze quickly, quietly and instantly with no warm-up time. In addition, with DMX on board, operators are able to control the unit completely and conveniently. The Pro Haze DMX will provide very large amounts of fine, translucent haze in any environment.

Customer Support:

Elation provides a customer support line, to provide 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.

Service Hours are Monday through Friday 9:00 a.m. to 6:00 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 protect our environment, do not discard this carton in the trash. Please recycle when ever possible.

IF THE POWER SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY MANUFACTURER OR ITS SERVICE AGENT OR SIMILARLY QUALIFIED PERSON IN ORDER TO AVOID A HAZARD.

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Important Safety Issues:

- **NEVER POINT OR AIM THIS DEVICE TOWARDS PEOPLE OR THEIR CLOTHING.**
- **USE ONLY THE HIGH-QUALITY HAZER LIQUID THAT YOUR DEALER RECOMMENDS.**
- **ALWAYS MAKE SURE THERE IS SUFFICIENT LIQUID IN THE HAZER LIQUID TANK. OPERATING THIS UNIT WITHOUT LIQUID MAY CAUSE PERMANENT DAMAGE TO THE MACHINE.**
- **IF YOUR HAZER FAILS TO WORK PROPERLY, DISCONTINUE USE IMMEDIATELY. CONTACT ELATION® FOR FUTURE INSTRUCTIONS.**
- **NEVER DRINK HAZER LIQUID. IF IT IS INGESTED, CALL A DOCTOR IMMEDIATELY. IF HAZER LIQUID COMES IN CONTACT WITH SKIN OR EYES, RINSE THOROUGHLY WITH WATER.**
- **USE ONLY THE HIGH-QUALITY HAZER LIQUID THAT YOUR DEALER RECOMMENDS.**
- **ALWAYS MAKE SURE THERE IS SUFFICIENT LIQUID IN THE HAZER LIQUID TANK. OPERATING THIS UNIT WITHOUT LIQUID MAY CAUSE PERMANENT DAMAGE TO THE MACHINE.**

- Keep this device dry at all times. Do not spill water or other liquids in to or on to your haze machine. Be sure that all the haze fluid is kept inside the fluid reservoir.
- Be sure to save the packing carton in case you may ever have to return the unit for service.
- Never overfill the unit's reservoir. Overfilling may cause the unit to clog.
- This unit is designed for interior use only. Do not use this unit outdoors.
- Be sure that the local power outlet match that or the required voltage for your haze machine.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Please route your power cord out of the way of foot traffic.
- 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 top cover under any conditions. There are no user serviceable parts inside.
- Disconnect the unit's main power when left unused for long periods of time.
- Never connect this unit to a dimmer pack
- Always be sure to mount this unit in area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Never block the ventilation holes.
- Do not attempt to operate this unit, if it becomes damaged in any way.
- Never operate this unit when it's cover is removed.
- For adult use only. Hazer must be installed out of the reach of children.
- Never leave the unit running unattended.
- Never aim the output at open flames.
- Never add flammable liquids of any kind (oil, gas, perfume) to the hazer liquid.
- Use only Elation® brand haze liquid.
- Always make sure there is sufficient liquid in the hazer liquid tank. Operating this unit without liquid may cause permanent damage to the machine.
- Always mount this unit in an upright position.

Pro Haze DMX™

Features

- No Warm-Up time
- 560 watt professional heater core.
- 2500 cubic feet of haze output.
- Rear on/off switch
- Built in fuse protection
- 2.5 liter tank capacity.
- Wired timer/volume remote control.
- Standard DMX-512 protocol.

Pro Haze DMX™

General Instructions

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance. Please keep this manual with the unit, as future reference.

Pro Haze DMX™

Unpacking

Every Pro Haze DMX™ has been thoroughly tested and has been shipped in perfect operating order. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all equipment necessary to operate the system has arrived intact. In the case damage has been found or parts are missing, please contact our toll free customer support number for further instructions.

Pro Haze DMX™

Warranty

The PRO HAZE DMX™ hazer carries a one year limited warranty. We recommend you 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 R.A. Number. If the unit is under warranty, you must provide a proof of purchase invoice.

Pro Haze DMX™

Set Up

Before beginning initial setup of your Elation® Pro Haze DMX™, make sure that there is no evident damage caused in transit. In the event that the unit's housing or power cable is damaged do not attempt to use. Contact Elation® customer support for assistance.

- Remove all packing materials from shipping box. Be sure all foam and plastic padding is removed.
- Place the hazer on a flat surface and remove the hazer reservoir cap.
- Note: The maximum fluid level mark is located on the rear of the hazer, do not fill fluid beyond this mark.
- Fill the reservoir only with hazer liquid, being careful not to exceed the maximum fluid level. **DO NOT OVERFILL.** Use only Elation® brand haze liquid. Any other types of fluid can damage the unit. When liquid level reaches the fill line, place cap back on liquid tank.
- Your hazer may be operated with or without a remote controller. If you will be controlling your unit remotely, firmly attach the remote control cable before plugging the unit in. *If you do not operate with a controller, the unit will automatically haze until the unit is turned off.*

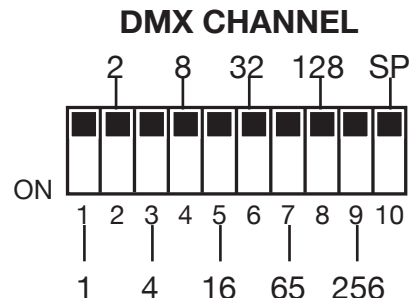
Power Supply: Before plugging your unit in be sure the source voltage in your area matches the required voltage for your Elation® Pro Haze DMX.™ The Elation® Pro Haze DMX™ is available in a 115v and 230v version. Line voltage may vary from venue to venue, you should be sure to plug your power supply into a matching wall outlet before attempting to operate your hazer.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Dip-switches in DMX mode: This unit uses dip switches to assign a DMX address. Each dip switch represents a binary value.

- Dip Switch 1 address equals 1
- Dip Switch 2 address equals 2
- Dip Switch 3 address equals 4
- Dip Switch 4 address equals 8
- Dip Switch 5 address equals 16
- Dip Switch 6 address equals 32
- Dip Switch 7 address equals 64
- Dip Switch 8 address equals 128
- Dip Switch 9 address equals 256



Each dip switch has a preset value. A specific DMX address is set by combining the dip switches that sum your desired value. For example: To achieve a DMX address of 21, combine dip switches 1, 3, and 5. Sense dip switch 1 has a value of 1, dip switch 3 has a value of 4, and dip switch 5 has a value of 16, the combination of the create a DMX value of 21.

Set DMX address 21:
 Dip-switches # 1 = 1
 3 = 4
 5 = 16
 = 21

Set DMX address 201:
 Dip-switches # 1 = 1
 4 = 8
 7 = 64
 8 = 128
 = 201

Data Cable (DMX Cable) Requirements (For DMX and Master/Slave Operation): The Pro Haze DMX can be controlled via DMX-512 protocol. The Elation® Pro Haze DMX™ is a one channel DMX unit. The DMX address is set on the rear panel of the Pro Haze DMX. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). If you are making your own cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all pro sound and lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and can not be split.



Figure 1

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behavior.

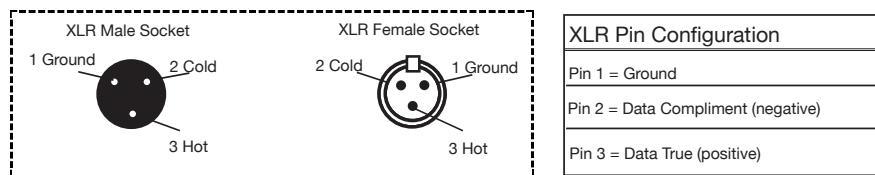


Figure 2

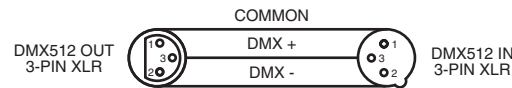


Figure 3

Special Note: Line Termination.

When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 90-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

Linking:

The Pro Haze DMX™ is a DMX intelligent hazer and must follow standard DMX protocol when used in DMX mode. A DMX signal cannot be split unless you are using an approved DMX splitter such as the LSC® DMX Branch 4.™ Link your hazers together using standard DMX cables as described on page 7 of this manual. Be sure that each fixture follows an “IN”/“OUT” pattern starting from your DMX controller. Your controller will always be the first output in a DMX chain. Link all your DMX devices together regardless of their brand or type. To control all the hazers at once, set all the hazers to the same DMX address.

Hazer Liquid:

Only use Elation® brand haze juice. Elation® juice is specially formulated to be used in this machine, other brand fluids may be made out of chemicals that may clog your haze machine. Using haze juice other than Elation® brand will void your manufactures warranty. Do not allow the hazer liquid to become contaminated. Always replace the caps on the hazer liquid container and the hazer's liquid tank immediately after filling.

Universal DMX Control: This function allows you to use a universal DMX-512 controller such as the LSC® DMX Operator™ or Show Designer to control haze output.

1. The Pro Haze DMX™ uses one DMX channel. Channel value 0 to 5 will not produce haze output, channel value 6 to 255 the Pro Haze DMX will produce haze.
3. To control your fixture in DMX mode, follow the set-up procedures on pages 8 - 9 as well as the set-up specifications that are included with your DMX controller.
4. Use the controller's faders to control the DMX fixture trait.
5. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.
6. For help operating in DMX mode consult the manual included with your DMX controller.

Remote Operation:

Place your haze machine in a well ventilated area. Be sure your hazer is placed on a flat, level surface. Be sure your hazer remote has been plugged in securely. Always maintain an adequate supply of Elation Haze Juice™ in the fluid reservoir. Running the haze machine dry will cause pump failure and or clogging. Running a haze machine dry is the largest cause of haze machine failure. Only Elation Haze Juice™ is recommended and not all haze juice is created equal. Plug your haze machine into a standard 110V/120V supply. Once the machine is plugged in and turned on, the power switch will begin to glow indicating the unit is receiving power.

If you experience low output, mechanical noise or no output at all, unplug immediately. Check fluid level, the external fuse, remote connection, and power from the wall. If all of the above appears to be O.K., plug the unit in again. If hazer does not function after 30 seconds, discontinue operation or permanent damage to the unit may result. Please contact Elation Customer Support for further instructions, the unit may need to be returned for service. Always drain tank before mailing or transporting this unit.

If you experience low output, pump noise, or no output at all, disconnect immediately. Do not attempt to continue pushing the remote button as this may damage unit. Check fluid level, the external fuse, remote connection, and check power from wall. If all of the above appear to be in good condition, and the unit fails to operate correctly, the unit will require service. Return the machine to an Elation Authorized dealer or service center.

Remote Control:

The haze machine comes with a full function remote control. The remote control is connected to the rear of the unit. Be sure to connect the remote to the proper jack. Do not try to force the remote connection in to the jack. You could damage your remote. The remote has three LED's that will indicate the different functions. See the next page remote functions and descriptions.



Caution: Before removing or replacing the remote unit, disconnect the power supply.

Duration:

1. This function allows you to set the time the haze will burst when in the timer mode.
2. You can adjust the time the hazer will burst from one second to 200 seconds.
3. To set the duration, turn the duration knob in a clockwise/counter-clockwise direction. Turning the knob clockwise will increase the duration, turning the knob counter-clockwise will decrease the duration.

Interval:

1. In timer mode, this function allows you to set the time interval between haze burst.
2. Haze burst interval can be set from one second to 200 seconds.
3. To set the interval turn the interval knob in a clockwise/counter-clockwise direction. Turning the knob clockwise will increase the interval, turning the knob counter-clockwise will decrease the interval.

Timer On/Off:

1. This Function allows you to set the hazer on an automatic setting. You can set the Interval, Duration, and as described on the previous page.
2. This button allows you turn the timer function on and off. A glowing yellow LED will indicate this function is on.

Continuous:

When this button is pushed the hazer will run continuously without stopping until the button is pushed again or the tank runs out of haze fluid.

Manually:

When this button is pressed it will emit haze as long as the button is held down.

1-YEAR 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 1 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 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 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 Professional® 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 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 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 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 bear identifying marks to that effect.

E. Elation Professional® 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 Professional® 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 Professional® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

MODEL - Pro Haze DMX™

WEIGHT:	35 LBS./16 Kgs.
DIMENSIONS:	570 (L) x 274 (W) x 323.4 (H)mm
SUPPLY VOLTAGE:	120V
FUSE:	7A
WARM UP TIME:	None Needed
TANK CAPACITY:	2.5 Liter
OUTPUT:	2,500 cubic feet per minute
FLUID TYPE:	Oil Based Elation Haze Juice™
AIR COMPRESSOR:	270w
DUTY CYCLE:	Not to exceed 6 hours turned on.

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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