



STAGE SETTER-24™

user manual

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DOCUMENT VERSION



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Date	Document Version	Notes
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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 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 customer support team for further instructions. Please do not return this unit 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

- 12VDC External Power Supply
- Manual & Warranty Card

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®.

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

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WARRANTY REGISTRATION

Please complete and mail in the enclosed warranty card or register online: <http://www.elationlighting.com/Login.aspx> 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. 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 unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. Damages resulting from modifications to this fixture 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



This fixture is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.



This device falls under **PROTECTION CLASS 1**. It's essential this device be grounded properly. Only qualified personnel should perform all electrical connections.



I N D O O R S U S E O N L Y !
DO NOT EXPOSE FIXTURE RAIN AND MOISTURE!



UNPLUG POWER BEFORE SERVICING FIXTURE!
DO NOT PLUG FIXTURE INTO A DIMMER PACK!

- For proper operation, follow the **Installation** guidelines described in this manual. Only qualified and certified personnel should perform installation of this device and only the original rigging hardware (brackets) included with this device should be used for installation. Any modifications will void the original manufactures warranty and increase the risk of damage and/or personal injury.
- Always disconnect 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.
- Do not operate this fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.



FLAMMABLE MATERIAL WARNING

Keep fixture at least 5.0 ft (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.

GENERAL GUIDELINES

- **NEVER OPEN THIS DEVICE WHILE IN USE!**
- This is a professional device designed for **INDOOR / DRY LOCATIONS ONLY** on stage, in nightclubs, theatres, etc.
- Please make sure there are **NO FLAMMABLE MATERIALS** close to the device while operating, to prevent any fire hazard.
- **DO NOT** attempt installation and/or operation without knowledge how to do so.
- **DO NOT** permit operation by persons who are not qualified to operate this type of device. Most damages are the result of operations by nonprofessionals.
- **DO NOT** shake device, avoid brute force when installing and/or operating.
- Use the original packaging and materials to transport the device in for service.

Special Note: DMX Line Termination

When data runs in excess of 100' are used, you may need to use a terminator on the last unit to avoid erratic fixture behavior. A terminator is a 120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). The terminator should be installed into the output of the last unit in your daisy chain.

Terminator Specifications:



Figure 3

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

Front Panel - Controls and Functions (Cont.)

2. Scene X – Channel Faders 1-12:

These 12 faders are used to control the intensities of channel's 1-12. The overall intensity of channel faders 1-12 is controlled by the X Crossfader (5).

3. Mode Button:

This button is used to change the unit's operating mode. There are three different operating modes: 2x12, 12x12, and 1x24. The unit's current operating mode will be indicated by a lit LED that above the relevant mode. Operation modes are explained further on page 15.

4. Record Button:

This button, in conjunction with the record access code 1,6,8,1,6,8, is used to activate the unit's record mode. Press and hold down the "Record" button then sequentially press Bump Buttons (10) 1,6,8,1,6,8. As a result, the red Record LED should illuminate. Furthermore, when the Record LED is lit, the Record button should be used to store chase steps, scene master's and bump master's. You may store up to 12 scene masters, 12 bump masters and 10 of your own chases in Chase Buttons 1-10. See page 17 for further programming details.

5. X Crossfader:

This fader controls the overall intensity of the Scene X channels 1-12. The X (5) and Y (6) faders allow crossfading between Scene X (2) and Scene Y (11) channels. The X Crossfader is at its maximum intensity while in the full up position. In 1x24 mode, the X Crossfader controls the intensities of channels 1-24.

6. Y Crossfader:

This fader controls the overall intensity of the Scene Y channels 13-24. The X (5) and Y (6) faders allow crossfading between Scene X (2) and Scene Y (11) channels. The Y Crossfader is at its maximum intensity while in the down position.

Front Panel - Controls and Functions (Cont.)

7. Digital Segment Display:

This multi-function display will detail the unit's current operation. The display will indicate last channel settings, active audio function, active MIDI signal, chase speed and fade settings.

8. Master Level Fader:

This fader controls the overall channel intensity levels for all 24 channels and will also control the master intensity level for all chase's. This fader takes no effect while the Full On (14) and Bump (10) buttons are active.

9. Channel LEDs (13-24):

These 12 LEDs detail the current intensity for channel 13-24. The more you raise the channel fader, the higher the output intensity. The LED indicators will directly reflect fader level changes in real time.

10. Bump Buttons:

The Bump Buttons serve multi functions. One function is as master scene bumps. Each of the 12 Bump Buttons can be programmed to control a single or a group of channels. These buttons can then be used to playback the single or group of channels by momentarily pressing the relevant Bump button.

Another function for the Bump Buttons is to momentarily bump channels 1-12 to full intensity regardless of the Blackout (15) function or the Master Level (8) setting.

The Bump Buttons are also used when in record mode. When recording master bump scenes and master playback scenes to the faders, these buttons should be used to assign the scene to the relevant bump button or fader.

Front Panel - Controls and Functions (Cont.)

11. Scene Y:

These 12 faders are used to control the intensities of channels 13-24. The overall intensity of channel faders 13-24 are controlled by the X Crossfader (5) and Master Level fader.

12. Built-in Chase 11-15:

These five Chase buttons are used to activate any of the five built in chases. When selected, the relevant chase LED should flash continuously and remain active until deselected.

13. Tap Sync:

This button is used to create a chase rate. Tapping this button twice consecutively will establish a chase rate that corresponds to your tap rate. The Tap Sync LED will flash at the established chase rate. A chase rate may be set at anytime, whether a chase is running or not. Adjusting the Speed fader to set a chase rate will override the Tap Sync button. In turn, the Tap Sync button will also override the Speed setting. The active running mode will be determined by the last action.

14. Full On Button:

This button is used to bring all channel output (1-24) to full intensity. This function will override the Blackout (15) function. The Full On LED (14) will illuminate ON solid while the Full On (14) button is pressed.

15. Blackout Button:

This button is used to disable all channel output (1-24). Only the Full On (14) and Bump Buttons (10) can override this function. Blackout is active when the green Blackout LED solid ON.

Front Panel - Controls and Functions (Cont.)

16. Speed/Fade Button:

This is a multi function button used to select between chase speed and fade functions. When the red LED is illuminated, Speed can be set using the SPEED/FADE fader. When the green LED is illuminated, Fade time can be set using the SPEED/FADE fader. The Speed and Fade time range is 1/10 second ~10 minutes, 0,10 denotes one tenth of a second per chase step and 1:00 denotes 1 minute per chase step.

17. Chases 1-10:

These buttons are used to record and playback any of the relevant user programmable chases. When a user programmed chase has been selected for playback, The relevant chase LED will illuminate ON solid.

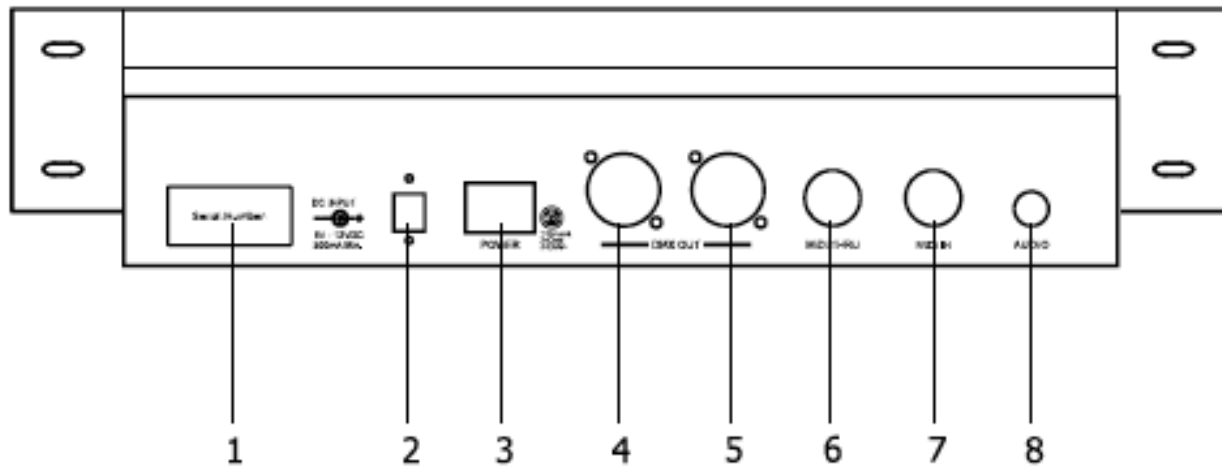
18. Speed/Fade fader

This fader is used to adjust and set a chase fade time and chase speed. When this fader is adjusted to the top, the display will read "STEP". Chase steps for a selected chase can then be manually triggered by pressing the Tap Sync button,

19. Audio Button

The audio button activates the internal microphone or line level input for chase audio trigger. If no line level input is detected, the internal microphone will take precedence and trigger chase steps. If a line level input is detected, chase steps will trigger as signal is detected.

Rear Panel



Rear Panel - Controls and Functions

1. Label: Authorized company serial number.

2. DC Power Input:

This input should be used to connect the supplied external power supply. Only use the included DC 12~20V, 500 mA minimum power supply. If it becomes necessary to replace the original power supply, only use an approved Elation power supply.

3. Power Switch:

This switch is used to turn the unit's main power On/Off.

4. DMX Out:

This XLR output is used to send DMX data to your DMX dimmer pack or compatible device.

5. DMX Out:

This is a secondary XLR output that is used to send DMX data to your DMX dimmer pack or other compatible devices in line.

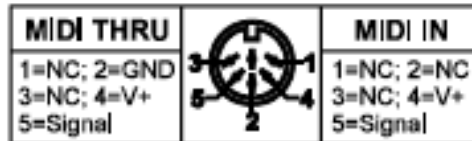
Rear Panel - Controls and Functions (Cont.)

6. MIDI Thru:

This jack is used to parallel an incoming MIDI signal through to another MIDI device.

7. MIDI In:

This jack receives an incoming MIDI signal from an external MIDI controller or keyboard.



8. Audio jack:

Audio (0.1V-1Vp-p). This should be connected to a line level input of a mixing console.

DEVICE OPERATION

Operating Modes:

The Stage Setter 24™ has three different operating modes: 2x12, 12x12, and 1x24. These modes are selectable with the Mode Button (3). The active mode is indicated by the lit Mode LED.

In **2x12 mode**, Crossfader X (5) controls channels 1-12, and Crossfader Y (6) controls channels 13-24. This mode is traditionally referred to as two scene operation mode.

In **12x12 mode**, Scene Y (11) faders, (13-24), function as scene master playbacks. Scenes can be set with faders 1-12 and stored to faders 13-24 for playback. During playback, Scene X (2) channels (1-12) function as normal dimmer channels.

In **1x24 mode**, the controller functions as a straight 24 dimming console. X Crossfader (5) and the Master Level fader control the intensities of channels 1-24. Bump buttons 1-12 function as Bump scene masters. Scenes can be recorded and stored for momentary playback to the Bump buttons.

Getting Started:

Access Record Mode:

To access Record mode, press and hold down the RECORD button and sequentially press Bump Buttons 1,6,8,1,6,8. The Record LED should illuminate ON solid.

Scene Masters:

Scene Masters can only be accessed and recorded while in 12x12 mode. When in 12x12 mode, Bump Buttons (10) and the Fade function (11) can be used to store Scene Masters. A Scene Master consists of channels 1-12.

To Record a Scene Master:

First, access Record mode. Press the Mode button until the green 12x12 LED is ON solid. Set the X Crossfader to all the way up to 10. With channel faders 1-12, create a desired scene. Press the SPEED/FADE button so the green FADE LED illuminates. Adjust the SPEED/FADE button to store a fade time to your scene if desired. Tap the Bump Button below the relevant fader, 13-24, that you want the scene stored to. LED's 1-24 will momentarily flash indicating that the scene master has been recorded.

Example:

We will program a scene into Scene Master #5. The scene will consist of channels 1 and 6 at full, intensity and channel 7 at 50%- the remaining channels will be OFF.

1. Press and hold down the RECORD button then sequentially press BUMP BUTTONS 1,6,8,1,6,8.
2. Press the MODE button so the green 12x12 LED illuminates ON solid.
3. Adjust X Crossfader and Master Level fader all the way up to 10.
4. Lower faders 1-12 to minimum or 0 (zero) if any are up.
5. Raise faders 1 and 6 to maximum.
6. Raise fader 7 to 50% or 5 (between 4 & 6).
7. Tap Bump Button #5. LED's 1-24 will momentarily flash indicating that the scene master was recorded.
8. Lower all active channel faders and repeat steps 1-7 to record additional scene masters. Press BLACKOUT to store and exit.

Scene Bump Masters:

Scene Bump masters only operate in 1x24 mode. When in the 1x24 mode, the Bump Buttons (10) can be programmed as momentary flash scenes. These are scenes that can be created by any of the 24 channels. Once a Bump Scene is created, that Bump Scene can be triggered by pressing the relevant Bump Button it was assigned to.

To Record a Scene Bump Master:

First, access Record mode. Press the Mode button until the green 1x24 LED is ON solid. Set the X Crossfader to all the way up to 10. With channel faders 1-24, create a desired scene. Tap the Bump Button, 1-12, that you want to store the scene to. LED's 1-24 will momentarily flash indicating that the scene bump master was recorded.

Example:

We will program a scene into Bump Button Master #3. The scene will consist of channels 1, 4, 6, 14 and 24 at full intensity and channel 12 at 50%- the remaining channels will be OFF.

1. Press and hold down the RECORD button then sequentially press BUMP BUTTONS 1,6,8,1,6,8.
2. Press the MODE button so the green 1x24 LED illuminates ON solid.
3. Adjust X Crossfader and Master Level fader all the way up to 10.
4. Lower faders 1-24 to 0 (zero) if they are currently up.
5. Raise faders 1, 4, 6, 14 and 24 to maximum.
6. Raise fader 12 to 50% or 5 (between 4 & 6).
7. Tap Bump Button #3. LED's 1-24 will momentarily flash indicating that the scene bump master was recorded.
8. Lower all active fader channels and repeat steps 1-7 to record additional scene bump masters. Press BLACKOUT to store and exit.

Recording Chases:

Up to 10 Chases, consisting of up to 64 steps each, can be stored to Chase buttons 1-10. When in 2x12 and 12x12 modes, the control functions as a 12 channel board in which case up to 12 channel chases can be created and stored memory, When in 1x24 mode, the board functions as a 24 channel board in which case up to 24 channels can be created and stored to memory,

Recording Chases (2x12 and 12X12 modes):

To Record a 12 channel chase:

First, access Record mode. Press the Mode button until the green 2x12 or 12x12 LED is ON solid. Select the Chase button, 1-10, that you wish to record to. Set the X Crossfader and Master Level fader all the way up to 10. With channel faders 1-12, create a desired scene. Tap the Record Button to store the step. LED's 1-24 will momentarily flash indicating that the chase step was recorded,

Example:

We will program a 12 step chase into Chase Button #5. It will consist of channels 1-12 at full intensity in sequence.

1. Press and hold down the RECORD button then sequentially press BUMP BUTTONS 1,6,8,1,6,8.
2. Press the MODE button so the green 1x12 or 12x12 LED illuminates ON solid.
3. Press Chase button #5.
4. Adjust X Crossfader and Master Level fader all the way up to 10.
5. Lower faders 1-12 to 0 (zero) if they are currently up.
6. Raise fader 1 to maximum.
7. Press the Record Button to store the step.
8. Lower fader 1 and raise fader 2 to maximum.
9. Press the Record Button to store the step.
10. Lower fader 2 and raise fader 3 to maximum.
11. Press the Record Button to store the step. Continue to repeat this process until all 12 channels have been stored.
12. Lower fader 12 and press BLACKOUT to exit.

Recording Chases (1x24 mode):

When in the 1x24 mode, both the Scene X (faders 1-12) and the Scene Y Channels (faders 13-24) can be used.

To Record a 24 channel chase:

First, access Record mode. Press the Mode button until the green 1x24 LED is ON solid. Select the Chase button, 1-10, that you wish to record to. Set the X Crossfader and Master Level fader all the way up to 10. With channel faders 1-24, create a desired scene. Tap the Record Button to store the step. LED's 1-24 will momentarily flash indicating that the chase step was recorded.

Example:

We will program a 4 step chase into Chase Button #10. It will consist of channels 1, 8, 16, & 24 at full intensity in sequence.

1. Press and hold down the RECORD button then sequentially press BUMP BUTTONS 1,6,8,1,6,8.
2. Press the MODE button so the green 1x24 LED illuminates ON solid.
3. Press Chase button #10.
4. Adjust X Crossfader and Master Level fader all the way up to 10.
5. Lower faders 1-12 to 0 (zero) if they are currently up.
6. Raise fader 1 to maximum.
7. Press the Record Button to store the step.
8. Lower fader 1 and raise fader 8 to maximum.
9. Press the Record Button to store the step.
10. Lower fader 8 and raise fader 16 to maximum.
11. Press the Record Button to store the step.
12. Lower fader 16 and raise fader 24 to maximum.
13. Press the Record Button to store the step.
14. Lower fader 24 and press BLACKOUT to exit.

MIDI Settings:

To change the MIDI settings:

1. Flip power switch OFF.
2. Press and hold down Bump Buttons 1-4, at the same time and flip the power switch ON, The current MIDI Receive channel will be displayed in the LCD.
3. Tap Bump Button 11 to change the MIDI Receive channel until you reach your desired MIDI channel. The MIDI receive channel range is from 1-16.
4. Tap the Blackout Button to exit and store your new MIDI channel setting.

MIDI Implementation:

This console receives MIDI program changes according the following table:

NOTE NUMBER	VELOCITY	FUNCTION
0-23	Channel intensity	Turn on or off channels 1-24
24-35		Turn on or off Bump Button 1-12
36-50		Turn on or off Chase 1-15
51		Blackout
52		Full On
53		Mode
54		Audio

Memory Dump:

This function allows you to reset the unit's factory default settings.

Caution:

Performing this operation will erase all user programs.

To reset the unit:

1. Flip the main switch OFF.
2. Press and hold down Bump Buttons 1, 4, 5, and 8 down, at the same time and flip the power switch ON.
3. Factory default settings will then have been restored to the console.

Display Settings (Percentage or DMX Value):

The display setting can be changed to read between 0-100% and DMX values 0-255.

To change the display settings:

1. Flip power switch OFF.
2. Press and hold down Bump Buttons 1-4, at the same time and flip the power switch ON.
3. Tap Bump Button 12 to change between percentage and DMX value display settings. 100 represents the percentage setting and 255 represents the DMX value setting.
4. Once set, tap the Blackout Button to exit and store you're the setting.

MAINTENANCE



C A U T I O N

Disconnect power before performing any maintenance.

MAINTENANCE

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this device, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to ensure circuit contacts are in good condition and 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.
- Check for any deformations on the housing, rigging hardware and rigging points. Deformations in the housing could allow for dust to enter into the device. Damaged rigging points or unsecured rigging could cause the device 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.

TECHNICAL SPECIFICATIONS

DC Input.....	DC 12~20V, 500 m A min.
DMX OUT.....	3-pin XLR female
MIDI In/Thru.....	5 pin multiple socket
Patterns.....	15 patterns consisting of 10 user programmable patterns and 5 built-in patterns
Dimensions.....	8.75"x15"x3.25"
Steps.....	Up to 64 steps per chase
Weight.....	8lbs.

Please 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
AC3PDMX5PRO	5 ft. (1.5m) 3pin PRO DMX Cable
	Additional Cable Lengths Available

