



RMD-620

USER'S MANUAL

Elation Professional ®
4295 Charter Street Los Angeles, CA 90058 USA
Tel: 866-245-6726 Fax: 323-582-3108
Web: www.elationlighting.com
E-mail: info@elationlighting.com

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

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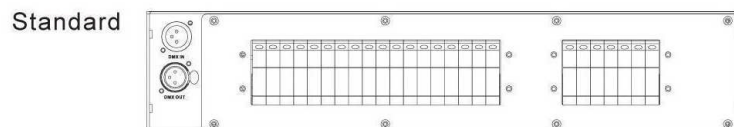
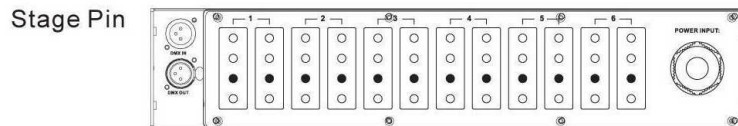
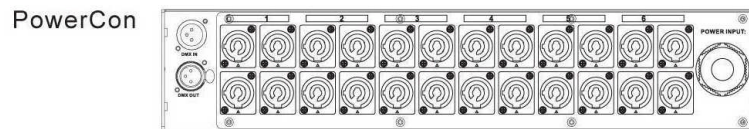
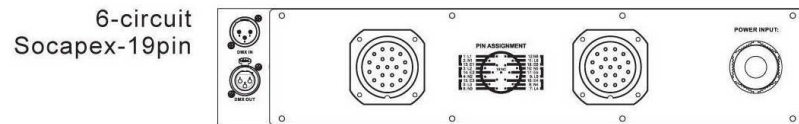
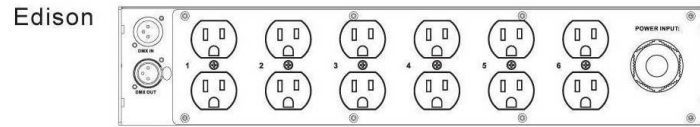
5. Technical Specifications

Power Input	AC 120V~60Hz, 120A max.
Channel Output(Single phase).....	20A/CH., Total 120A
Channel Output(Three phases).....	20A/CH., Total 40A per phase
DMX Output	3 pin female XLR socket
DMX Input	3 pin male XLR socket
Analog Input	0-10V, 9-pin sub socket
Circuit Breaker.....	20A MCB
Dimensions	19"x15.36"x3.54"
Weight(appro.)	19.84lbs.

Improvements and changes to specifications, design and this manual, may be made at any time without prior notice.

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4. Optional Rear Output Panels



Panel types are available in different configurations. Please log onto www.elationlighting.com or ask your dealer for details.

Features

Thank you for purchasing the Elation RMD-620. Features include:

- 19" Rack Mount Dimmer
- 6 channels controllable via DMX or analog signals
- 6, 20A circuit breakers for short circuit/overload protection
- 3 pin XLR DMX input and output
- 9 pin Analog input
- Standard, terminal type, power output and input rear panel
- 6 on board channel monitor LED's
- Microcomputer controlled
- Individual channel control via on board display and function buttons
- Individual channel patching
- Assignable Max/Min intensity preset level
- 12 internal chase programs with adjustable speed
- DMX failure options include- Internal chase 1-12, Hold last DMX values and Analog input
- Selectable control curves include Linear/S-curve/Non Dim and Square
- Vivid blue backlit LCD
- Internal Cooling Fan & Circle Filter Coil
- Single Phase or Three Phase Connection operations
- Power Failure Memory

General Instructions

Please read through these operating instructions before installing or using your RMD-620. After you've finished reading them, put them away in a safe place for future reference.

This is a 19", 6 channel digital dimmer pack. Each channel has a 20 Amp load capacity and is protected with state of the art circuit breakers. This standard model includes terminal input and output connectors. However, there are many optional panels available which include Edison, Socapex, Stage Pin and Power Con. Contact your dealer for further details. Each channel can individually be patched with different or identical DMX addresses. Selectable Dim curve options include Linear, S-curve, Non Dim (Switch) and Square. The DMX fail feature allows you select a desired function should signal ever be lost or interrupted- include internal chase 1-12, hold last DMX setting and analog.

Every effort has been made to design dependability, reliability and comfort into each unit. New products are being designed constantly to meet the needs of both entertainment and lighting industries. We welcome your comments and suggestions about our product and services. It's both a privilege and pleasure serving you.

WARNING!

- This unit must be earthed.
- Keep the unit dry, do not expose it to water or high level of humidity.
- Do not make any inflammable liquids, water or metal objects enter the unit.
- Any strong shocks or vibration may result in lamp damage.
- This unit must be operated by adults, do not allow children to play with it.
- Read the manual thoroughly before operation. The manufacturer will not take any responsibility of damages through user's disregardness.
- Use the fuse with the same exact type that was moved for replacement.

CAUTION!

- When unpacking, please check the unit is not damaged. Should something wrong happen to this product, contact the local dealer immediately.
- All rights reserved. No part of the manual included with this product may be reproduced, transmitted, transcribed or translated into any language in any form, by any means, without authorized permission.

3. Notice Information

Installation / Mounting

This unit is designed to be mounted and fastened into a rack. It is recommended that, for safety purposes, you have a certified electrician install and make all necessary cable connections.

Troubleshooting

In the event that your unit has no output at all, turn the house main breakers OFF immediately and do not attempt to continue operating this unit, as this may result in damage. Check the resettable breakers on the front panel to ensure that they are not tripped. Check your DMX/Analog data connections and ensure your data cables are good.

If all of the above appear to be in good condition, and the unit still fails to work correctly, check the packs maximum and minimum level settings (see pages 13-16). If this doesn't rectify the situation, the unit may require service. Please contact ELATION® customer support for further instructions.

Maintenance

- Turn off the power before any cleaning.
- Keep the unit dry, do not spill water or other liquids into or onto it.
- There are no user serviceable parts inside, do not dismantle the unit.
- If your unit fails to work or is somehow damaged, please do not attempt to repair it by yourself. Repairs must be done by qualified personnel.

Customer Support

Mailing & Shipping Address:

Elation Professional Headquarters
4295 Charter Street
Los Angeles, Ca 90058
USA

Toll Free # (866) 245-6726

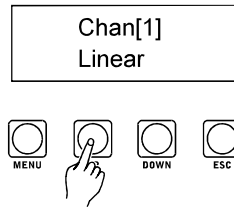
Fax # (323) 582-3108

e-mail: support@elationlighting.com

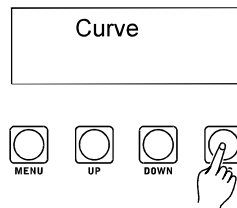
2. Menu System

2.2.5 Curve

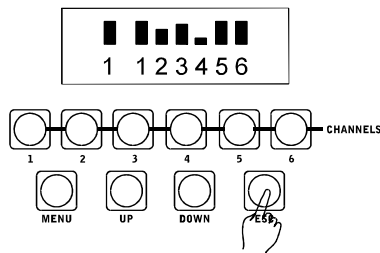
6. When an individual channel, [1-6], is selected, tap the UP/DOWN buttons to select between Linear/S-Curve/Non Dim/Square operation modes. Tap the MENU button to confirm your setting.



7. Tap the ESC button to store all settings into memory.

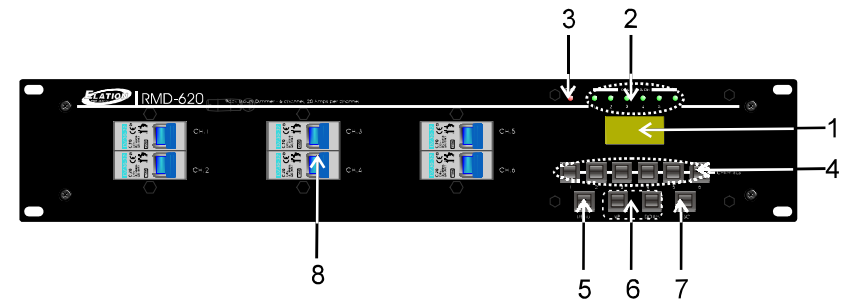


8. Tap the ESC button again to exit from the Main Menu.



1. Overview

1.1 Front View



1. 2 x 8 Line LCD

Display's current activity or adjustments made within menu options.

2. Channel LED's x 6

These LED's display the current intensities of corresponding channels.

3. DMX LED

When DMX signal is present, this LED flashes.

4. Channel Buttons x 6

These buttons should be used to manually raise and lower corresponding channel intensities. When wanting to gain manual control of channels, pressing and holding the relevant channel button will increase channel intensity. The "ESC" button should be pressed to switch to decrease mode. Pressing any of the channel number buttons there after will cause output to decrease.

5. MENU Button

This button allows you to enter, view and edit menu and sub-menu options. It also functions as an "ENTER" button when settings levels and addresses.

6. UP/Down Buttons

These buttons should be used to scroll through or adjust desired channel patches, levels and menu options.

7. ESC Button

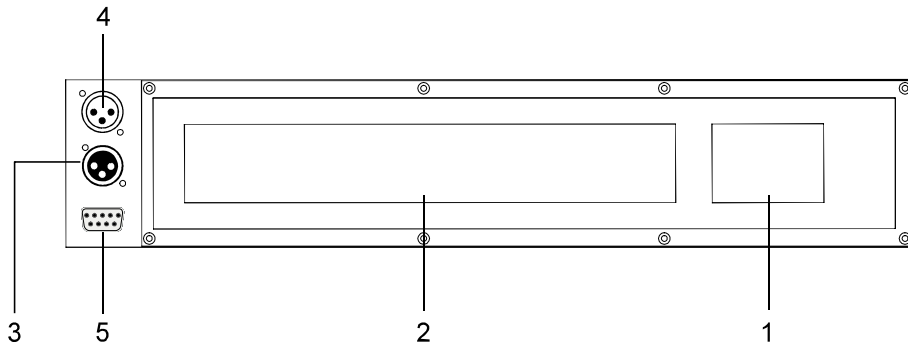
This button should be used to exit from all menu's. When the LCD is in the main screen, (channel numbers, 1-6, are viewable in the LCD), pressing this button switches between channel increase and decrease mode. See description #4 above for more details.

8. Circuit Breaker's x 6 (20A)

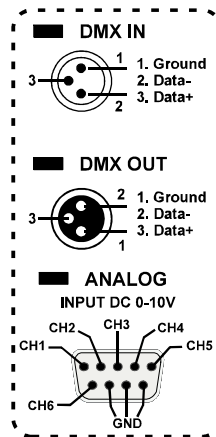
These circuit breakers are each rated at 20Amps and are UL approved. They are designed for short circuit protection when relevant channels are overloaded.

1. Overview

1.2 Rear View



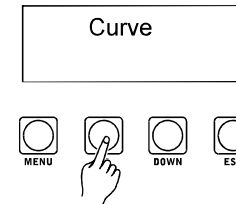
1. Power Input
AC 120V~60Hz, 120A max.
2. Terminal Output
Single phase: 20A/CH., Total 120A
Three phase: 20A/CH., Total 40A/Phase
3. DMX OUTPUT
This connector sends DMX signal through to the next DMX device.
4. DMX INPUT
This connector accepts DMX signal from a DMX controller or previous DMX device in line.
5. Analog Input
DC 0-10V pulse signal.



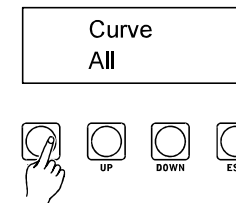
2. Menu System

2.2.5 Curve

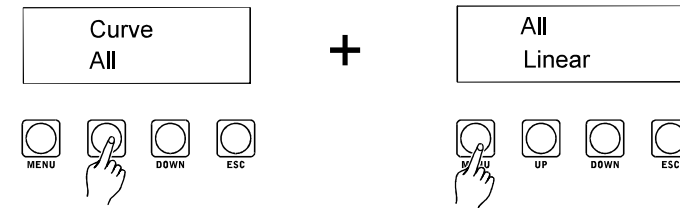
1. Tap the UP/DOWN buttons to scroll to the Curve menu option.



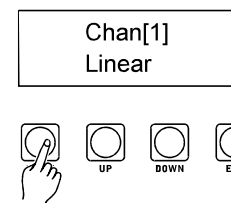
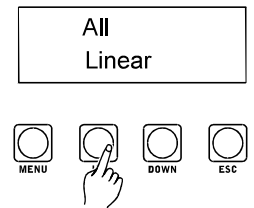
2. Tap the MENU button to enter.



3. Tap the UP/DOWN buttons to scroll to All and individual channels [1-6]. Tap the MENU button to enter your desired mode.



4. In All mode, tap the UP/DOWN buttons to select between Linear/S-Curve/Non Dim/Square.

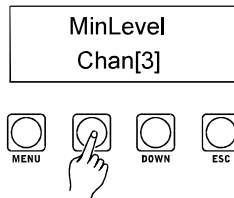


5. In individual channel mode, tap the MENU button to select between the channel number and Linear/S-Curve/Non Dim/Square operation modes.

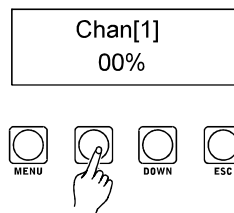
2. Menu System

2.2.4 MinLevel

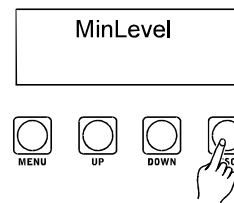
5. In individual channel mode, tap the MENU button to select between channel number and the channels current MinLevel setting. When the display reads "MinLevel" followed by a channel number, press the UP/DOWN buttons to change channel numbers.



6. When a channel number is selected by tapping the MENU button, use the UP/DOWN buttons to set a new minimum intensity between [00%-30%].

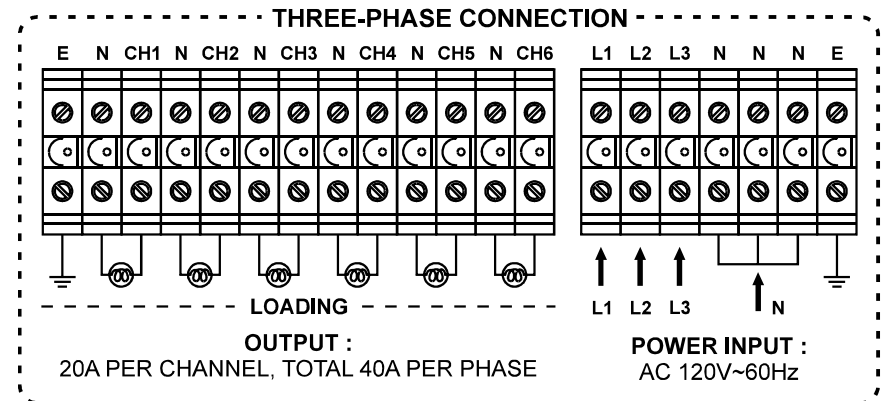
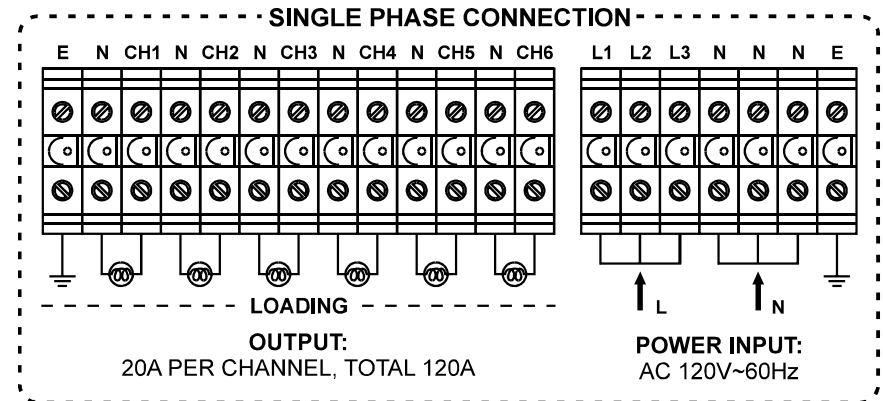


7. Tap the ESC button to save settings into memory.



1. Overview

1.3 Wiring Diagram



SINGLE PHASE	POWER INPUT:AC 120V~60Hz,120A MAX OUTPUT:20A /CH, Total 120A.	CAUTION Risk of Electric Shock Disconnect Input Power Before Opening N'ouvrez pas..risque de choc électrique Warning :This apparatus must be earthed
THREE PHASE	POWER INPUT:AC 120V~60Hz, 120A MAX OUTPUT:20A/CH, Max 40A/Phase.	
1. Either three-phase four-wire input or single phase input is allowed. 2. When single phase input, L1, L2, L3 must be short-circuited via wires. 3. When three phase input, neutral wire must be securely connected.		

2. Menu System

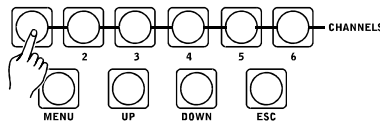
2.1 Default Menu

When power is initially applied, the LCD will momentarily display the current installed software revision then display the default Menu window. The default Menu window display's a row of channel intensity levels followed by a row of channel numbers.



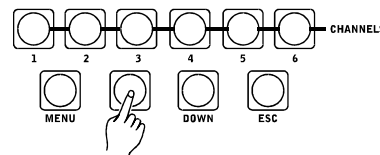
2.1.1 Manual, Individual Channel Control

While in the default Menu window, tapping any of the channel number buttons will increase the intensity for the relevant channel by one level. Pressing and holding a number button down for two seconds, will increase the rate at which the intensity changes. To dim intensity, tap the ESC button one time then press and hold down the channel number button relevant to the channel you want to dim.



2.1.2 Manual, Block Channel Control

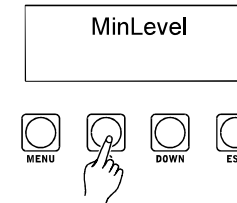
While in the default Menu window, tapping the UP/DOWN buttons will increase and decrease all six channels at the same time. Each tap will change the channel intensity by one level. Pressing and holding the UP/DOWN buttons down for two seconds will increase the rate at which the intensity changes.



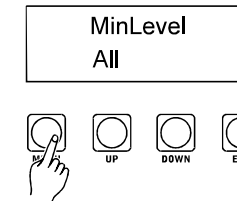
2. Menu System

2.2.4 MinLevel

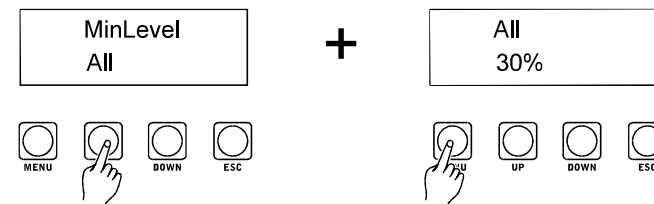
1. Tap the UP/DOWN buttons to scroll to Minlevel menu option.



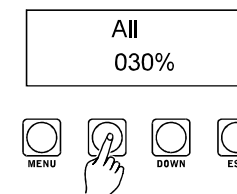
2. Tap the MENU button to enter.



3. Tap the UP/DOWN buttons to select between All & individual channels [1-6]. Tap the MENU button to enter All or selected individual channel mode.



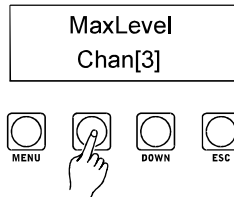
4. In All mode, tap the UP/DOWN buttons to set a desired MinLevel intensity value for all channels between 00%-30%.



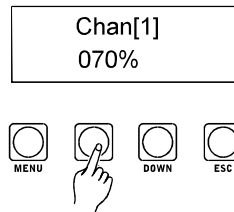
2. Menu System

2.2.3 MaxLevel

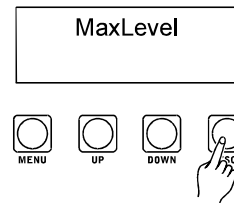
5. In individual channel mode, tap the MENU button to select between channel number and the channels current MaxLevel setting. When the display reads "MaxLevel" followed by a channel number, press the UP/DOWN buttons to change channel numbers.



6. When a channel number is selected by tapping the MENU button, use the UP/DOWN buttons to set a new maximum intensity between [070%-100%].



7. Tap the ESC button to save settings into memory.

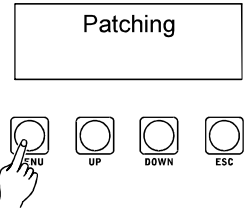


2. Menu System

2.2 Menu Options

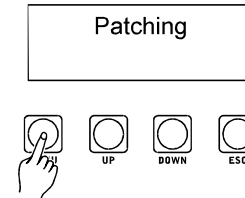
From the default Menu screen, tap the MENU button one time to access the packs options. There are five main menu options that also include several sub-menus. Press the UP/DOWN buttons to scroll the menu options.

The menu options include **Patching** (this option allows for DMX channel addressing), **DMX Fail** (this option allows for you to select a desired preset function should you encounter DMX signal error or loss), **MaxLevel** (this option allows you to set a maximum intensity level for the six channels), **MinLevel** (this option allows you to set a minimum intensity level for the six-channels), and **Curve** (this option allow for you to select a curve operation mode. Tap the ESC button to exit and confirm each change from each menu screen.

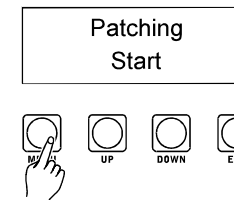


2.2.1 Patching

1. From the default Menu screen, tap the MENU button one time.



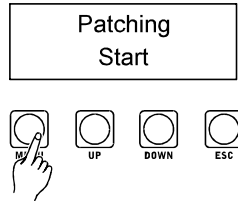
2. Tap the MENU button a second time to enter a Patching sub-menu.



2. Menu System

2.2.1 Patching

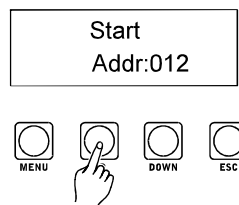
3. Tap UP/DOWN buttons to switch between “Start” and “Independent” (See below). Tap the MENU button to enter your desired option.



[Start]: When the Start option is selected, only one starting address can be set. All of the pack’s channels will then follow in sequence based on the set DMX channel. For example, if the address is set to 1, then the remaining five channels would automatically be assigned to 2, 3, 4, 5 & 6.

[Independent]: When the Independent option is selected, each of the pack’s six channels can be set to different addresses or all to the same address. For example, you can set channel 1 to address 12, channel 2 to address 40, channel 3 to address 1, etc... Or All to the same address so when one DMX channel is triggered from the your console, all of the pack’s channels respond.

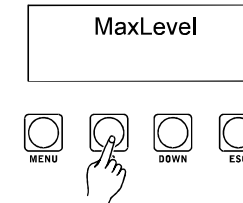
4. If you selected the Start option, continue to read on. If you selected Independent, go to step 5. Adjust your desired starting DMX address channel, from 001-512, by pressing the UP and DOWN buttons until you’ve reached your desired address.



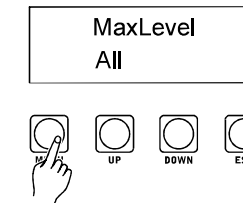
2. Menu System

2.2.3 MaxLevel

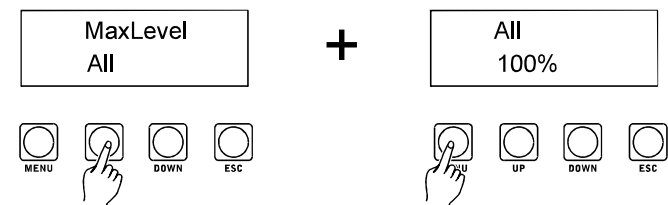
1. Tap the UP/DOWN buttons to scroll to Maxlevel menu option.



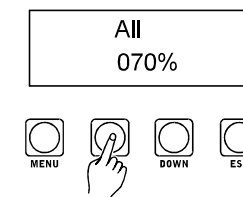
2. Tap the MENU button to enter.



3. Tap the UP/DOWN buttons to select between All & individual channels [1-6]. Tap the MENU button to enter All or selected individual channel mode.



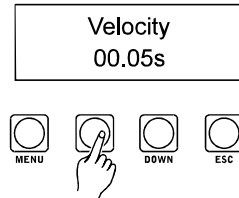
4. In All mode, tap the UP/DOWN buttons to set a desired MaxLevel intensity value for all channels between 070%-100%.



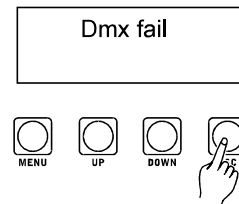
2. Menu System

2.2.2 DMX Fail

5. Use the UP/DOWN buttons to adjust a desired chase velocity from 00.05s to 30.00s.



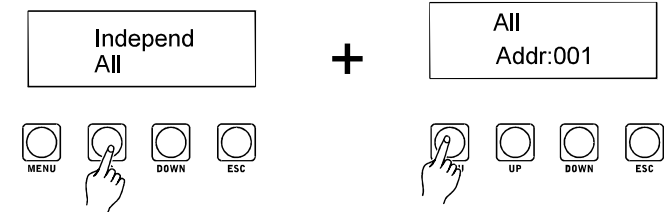
6. Tap the ESC button to save your settings into memory.



2. Menu System

2.2.1 Patching

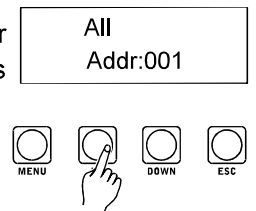
5. If you selected the Independent option, you will now have to select between the All or Independent channel [1-6] options. Tap the MENU button to change between All and channels [1-6].



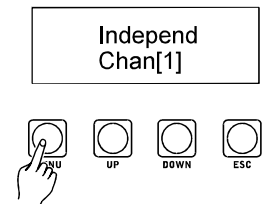
[All]: The “All” option will allow you to assign one DMX channel to all six dimmer channels. Example: if you set your DMX channel to “10”, all six of your packs channels will respond when channel 10 is adjusted.

[Independ Chan [1-6]]: The single channel option will allow you to assign independent DMX addresses to each channel. Example: You can assign the packs first channel to DMX channel 5, the packs second channel to DMX channel 30, the packs third channel to DMX channel 64, etc... Until all six channels are assigned.

6. In All mode, tap the UP/DOWN buttons to assign your desired DMX address between [001-512]. Then press the ESC button to confirm and store your setting.



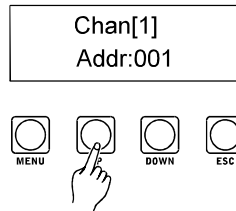
7. In Independent channel mode, tap the MENU button to select between channel and the current set DMX address.



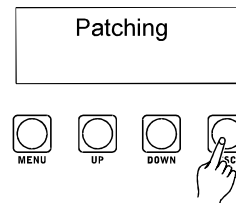
2. Menu System

2.2.1 Patching

8. When the channel number and current DMX address are listed in the display, tap the UP/DOWN buttons to set your new DMX address for the selected channel between [001-512]. Press the MENU button to confirm your newly set address. Press the UP/DOWN buttons to select next channel to assign.



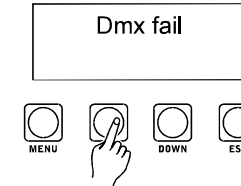
9. Tap ESC button to save settings into memory and exit.



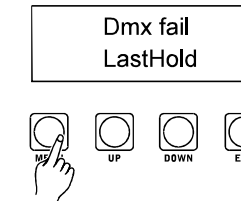
2. Menu System

2.2.2 DMX Fail

1. Tap the UP/DOWN button to scroll to DMX Fail option.



2. Tap the MENU button to enter. Use the UP/DOWN buttons to select between LastHold/Analog/Progr:01-12.

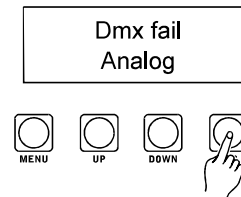


[LastHold]: Last received DMX signal will hold.

[Analog]: The analog input (0-10v) will become activate.

[Prog:01-12]: The internal program 01-12 will begin to run.

3. If you select LastHold or Analog, tap the "ESC" button to store your setting.



4. If you select an internal Prog:01-12, tap the ESC button so the velocity menu appears in the display.

