

MinWash™

Snapshot

OK on Dimmer	⊘
Outdoor OK	⊘
Sound Activated	✓
DMX512	✓
Master/Slave	✓
115V/230V Switch	✓
Replaceable Fuse	✓
User Serviceable	⊘
Duty Cycle	⊘

USER MANUAL



CHAUVET.
Value • Innovation • Performance

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www.chauvetlighting.com

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1. BEFORE YOU BEGIN

What is included

- 1 x MinWash™
- Power Cord
- Warranty Card
- User Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Figure 1 - AC Voltage Switch

Warning!

Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth Ground.



Not all fixtures have a voltage select switch. Please be sure to connect to the proper voltage.

Contact Us

World Wide

General Information

Chauvet Lighting
3000 North 29th Court
Hollywood, FL 33020
voice: 954.929.1115
fax: 954.929.5560
toll free: 800.762.1084

Technical Support

Chauvet Lighting
3000 North 29th Court
Hollywood, FL 33020
voice: 954.929.1115 **(Press 4)**
fax: 954.929.5560 **(Attention: Service)**

World Wide Web

www.chauvetlighting.com

Safety Instructions



Please read these instructions carefully, it includes important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing fuse and be sure to replace with same size and type of fuse.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature (Ta) is 104°F (40°C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

Caution!

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET at: 954-929-1115.

2. INTRODUCTION

Features

CONTROL FEATURES

- 5 or 13-channel DMX-512 LED moving yoke color wash
- Pan: 540° / tilt: 270°
- RGB color mixing
- Variable electronic strobe
- Variable electronic dimmer (0 – 100%)
- Vector speed channel for pan/tilt, RGB color mixing and color macros
- Built-in movement macros via master/slave or DMX

ADDITIONAL FEATURES

- User-selectable basic or advanced operating modes
- User-selectable pan/tilt ranges
Pan: 540°, 360°, 180°
Tilt: 270°, 180°, 90°
- Compact and lightweight
- LED display with on, off, auto settings
- Reset to factory settings option
- Pan/tilt invert option
- Fan Cooled

OPTIONAL CONTROLLERS

- Easy Controller (CA-9)

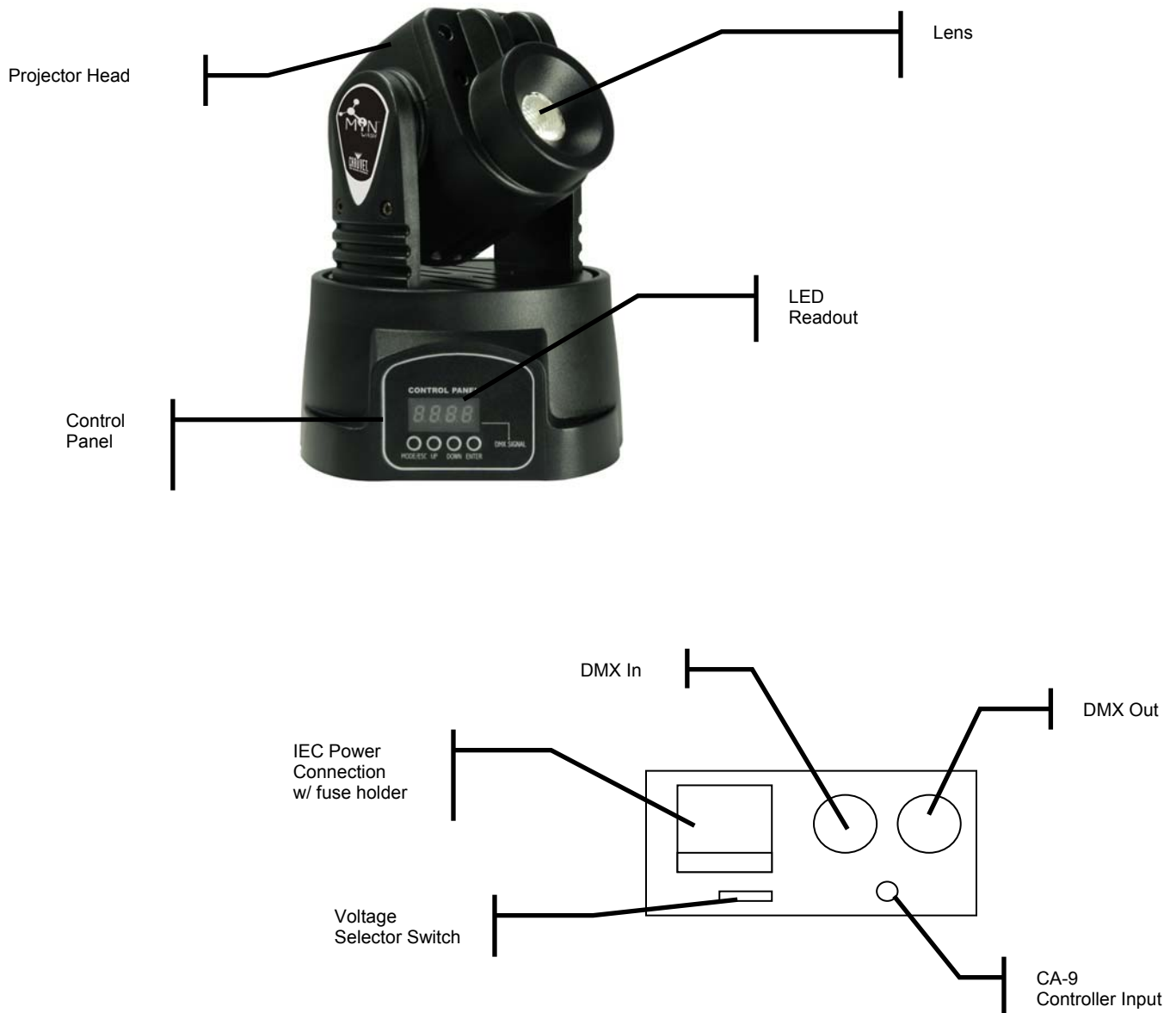
DMX Channel Summary 13 Channel Mode

CHANNEL	FUNCTION
1	Pan
2	Pan Fine
3	Tilt
4	Tilt Fine
5	Vector Speed (Pan/Tilt)
6	Dimmer/Strobe
7	Red
8	Green
9	Blue
10	Color Macros
11	Vector Speed (Color)
12	Movement Macros
13	Reserved

DMX Channel Summary 5 Channel Mode

CHANNEL	FUNCTION
1	Pan
2	Tilt
3	Shutter
4	Color Macro
5	Reserved

Product Overview



3. SETUP



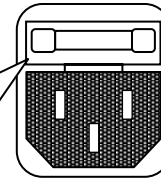
Disconnect the power cord before replacing a fuse and always replace with the same type fuse.



Fuse Replacement

With a flat head screwdriver wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

The fuse is located inside this compartment. Remove using a flat head screwdriver.



Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended serial data link distance: 500 meters (1640 ft.)

Maximum recommended number of fixtures on a serial data link: 32 fixtures

Data Cabling

To link fixtures together you must obtain data cables. You can purchase CHAUVET-certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

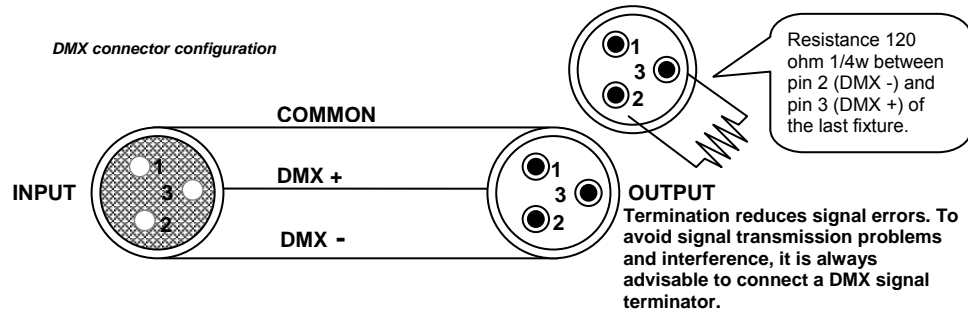
DMX DATA CABLE

Use a Belden© 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following characteristics:

*2-conductor twisted pair plus a shield
Maximum capacitance between conductors – 30 pF/ft.
Maximum capacitance between conductor and shield – 55 pF/ft.
Maximum resistance of 20 ohms / 1000 ft.
Nominal impedance 100 – 140 ohms*

CABLE CONNECTORS

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.



CAUTION Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-PIN TO 5-PIN CONVERSION CHART

Note! If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. CHAUVET Model No: DMX5M, or DMX5F. The chart below details a proper cable conversion:

3 PIN TO 5 PIN CONVERSION CHART

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

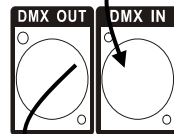
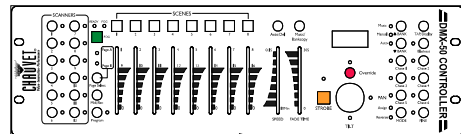
Setting up a DMX Serial Data Link

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.
2. Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.
3. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

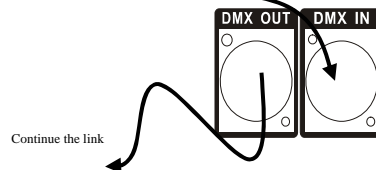
CHAUVET Certified DMX Data Cables

Order Code	Description
DMX1.5	DMX Cable 1.5m/4.9ft
DMX4.5	DMX Cable 4.5m/14.8ft
DMX10	DMX Cable 10m/32.8ft

Universal DMX Controller



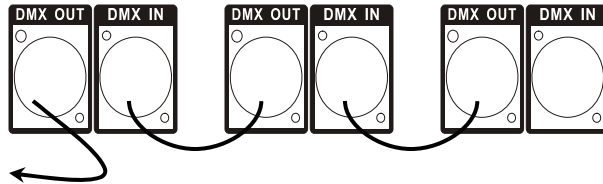
This drawing provides a general illustration of the DMX Input/Output panel of a lighting fixture.



Master/Slave Fixture Linking

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.
2. Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondly, the fixtures that follow may also require a slave setting. Please consult the "Operating Instructions" section in this manual for complete instructions for this type of setup and configuration.



Mounting

ORIENTATION

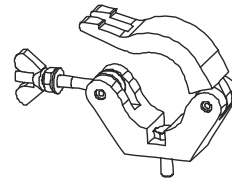
This fixture may be mounted in any position provided there is adequate room for ventilation.

RIGGING

It is important never to obstruct the fan or vents pathway. Mount the fixture using a suitable "C" or "O" type clamp. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

- When selecting installation location, take into consideration lamp replacement access and routine maintenance.
- Safety cables must always be used.
- Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

Hanging Clamp



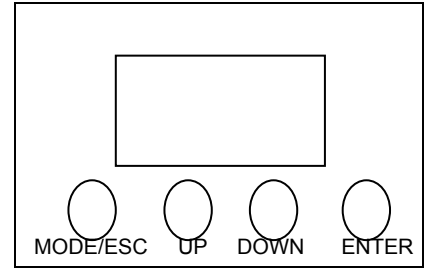
Note!
Clamp is sold separately.

4. OPERATING INSTRUCTIONS

Navigating the Control Panel

Access control panel functions using the four panel buttons located directly underneath the LCD Display.

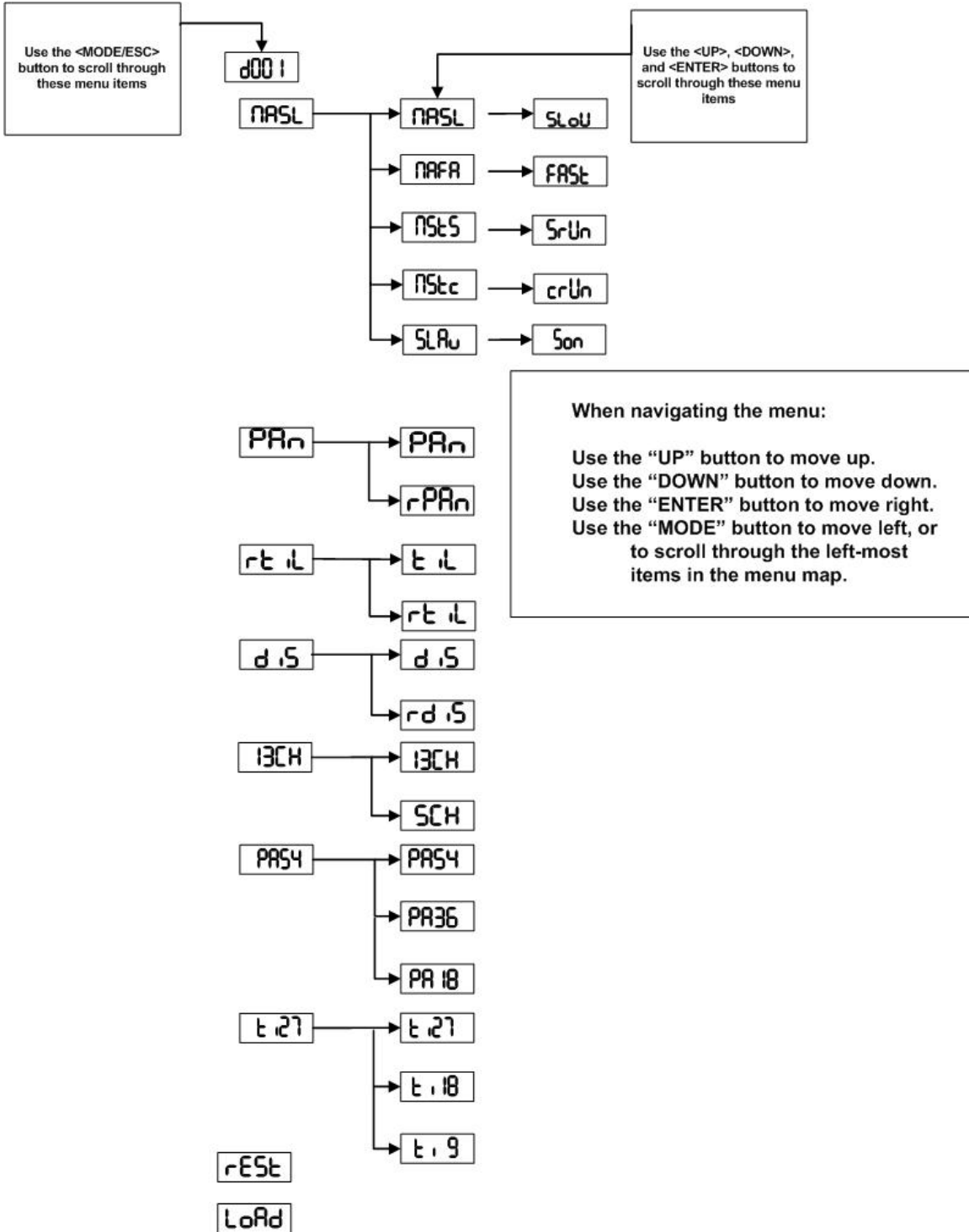
Button	Function
<MODE/ESC>	Used to access the menu or to return to a previous menu option
<UP>	Scrolls through menu options in ascending order
<DOWN>	Scrolls through menu options in descending order
<ENTER>	Used to select and store the current menu or option within a menu



The Control Panel LED Display shows the menu items you select from the menu map on page #11. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press <ENTER>.

Press the <MODE/ESC> button repeatedly until you reach the desired menu function. Use the <UP> and <DOWN> buttons to navigate the menu options. Press the <ENTER> button to select the menu function currently displayed or to enable a menu option. To return to the previous option or menu without changing the value, press the <MODE/ESC> button.

Menu Map



User Configurations

TO SET THE PAN TO INVERTING OR NON-INVERTING:

- 1) Press the Mode button until it shows **PAn** or **rPAn**
- 2) Use the Up/Down buttons to set to the desired inversion, press enter to confirm.

TO SET THE TILT TO INVERTING OR NON-INVERTING:

- 1) Press the Mode button until it shows **tIL** or **rtIL**
- 2) Use the Up/Down buttons to set to the desired inversion, press enter to confirm.

TO SET THE LED READOUT TO INVERTING OR NON-INVERTING:

- 1) Press the Mode button until it shows **dIS** or **rdIS**
- 2) Use the Up/Down buttons to set to the desired inversion, press enter to confirm.

TO SET THE DMX CHANNEL CONFIGURATION:

- 1) Press the Mode button until it shows **13CH** or **5CH**
- 2) Use the Up/Down buttons to set to the desired inversion, press enter to confirm.

TO SET THE MAXIMUM PAN ANGLE:

- 1) Press the Mode button until it shows **PA54** or **PA36** or **PA18**
- 2) Use the Up/Down buttons to set to the desired inversion, press enter to confirm.

TO SET THE MAXIMUM TILT ANGLE:

- 1) Press the Mode button until it shows **t127** or **t118** or **t9**
- 2) Use the Up/Down buttons to set to the desired inversion, press enter to confirm.

Service Functions

TO RESET THE FIXTURE:

- 1) Press the Mode button until the display shows **rEst**
- 2) Press enter to confirm your selection.

TO RESTORE ALL SETTINGS TO THEIR FACTORY DEFAULTS:

- 1) Press the mode button until the display reads **LoAd**
- 2) Press enter to confirm your selection.

Operation

Stand-Alone Mode (Auto Mode):

This mode allows a single unit to run to a factory installed program in one of two speeds.

- 1) To set the fixture in auto mode **Fast**, select **NAFA**. Once confirmed the display reads **FAST**
- 2) To set the fixture in auto mode **Slow**, select **NASL**. Once confirmed the display reads **SLOW**

Master/Slave Mode (Master Sound):

This mode will allow you to link up to 32 units together without a controller.

- 1) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. Proper performance it may be necessary to use a terminator at the last fixture. For more information about terminators, see page 8.
- 2) Choose a unit to function as the Master. Select NAFA/NASL or NSTS (see below for readout) depending upon which master mode you require. The master unit must be the first unit in line. Finally, chain the units together using DMX cable.

Master Auto **NAFA** or **NASL**

Master Sound **NST5** becomes **SRUN** when confirmed

- 3) Select slave function by using the Up/Down keys to reach SLAV in the Master/Auto menu on the slave units, and they will react in the same as the Master.

Slave **SLAV** becomes **SON** when confirmed

DMX Mode

This mode allows the unit to be controlled by any universal DMX controller. If you are unfamiliar with DMX, please read the DMX Primer on page #17.

- 1) The default mode for the fixture is DMX, which appears as **d001** on the LED Readout.

DMX Channel Values (13 Channel)

CHANNEL	VALUE	FUNCTION
1	000 ⇔ 255	Pan
2	000 ⇔ 255	Pan Fine
3	000 ⇔ 255	Tilt
4	000 ⇔ 255	Tilt Fine
5	000 ⇔ 255	Vector Speed: (Normal → Slow)
6	000 ⇔ 007 008 ⇔ 134 135 ⇔ 239 240 ⇔ 255	Dimmer/Strobe Closed 100-0% Strobe (slow → fast) Open
7	000 ⇔ 255	Red 0-100%
8	000 ⇔ 255	Green 0-100%
9	000 ⇔ 255	Blue 0-100%
10	000 ⇔ 007 008 ⇔ 021 022 ⇔ 035 036 ⇔ 049 050 ⇔ 063 064 ⇔ 077 078 ⇔ 091 092 ⇔ 105 106 ⇔ 119 120 ⇔ 133 134 ⇔ 147 148 ⇔ 161 162 ⇔ 175 176 ⇔ 189 190 ⇔ 203 204 ⇔ 217 218 ⇔ 231 232 ⇔ 244 245 ⇔ 255	Color Macros No Function White Red Green Blue Cyan Magenta Yellow Purple Orange Chartreuse Pink Brown Gold Crimson Violet Crepe Color-Change Macro 1 Color-Change Macro 2
11	000 ⇔ 255	Vector Speed (Color)
12	000 ⇔ 007 008 ⇔ 023 024 ⇔ 039 040 ⇔ 055 056 ⇔ 071 072 ⇔ 087 088 ⇔ 104 105 ⇔ 117 118 ⇔ 135 136 ⇔ 151 152 ⇔ 167 168 ⇔ 183 184 ⇔ 199 200 ⇔ 215 216 ⇔ 231 232 ⇔ 247 248 ⇔ 255	Movement Macros No Function Auto Program 1 Auto Program 2 Auto Program 3 Auto Program 4 Auto Program 5 Auto Program 6 Auto Program 7 Auto Program 8 Sound Active 1 Sound Active 2 Sound Active 3 Sound Active 4 Sound Active 5 Sound Active 6 Sound Active 7 Sound Active 8
13	000 ⇔ 255	Reserved

DMX Channel Values (5 Channel)

CHANNEL	VALUE	FUNCTION
1	000 ⇔ 255	Pan
2	000 ⇔ 255	Tilt
3	000 ⇔ 007 008 ⇔ 134 135 ⇔ 239 240 ⇔ 255	Dimmer/Strobe Closed 100-0% Strobe (slow → Fast) Open
4	000 ⇔ 007 008 ⇔ 021 022 ⇔ 035 036 ⇔ 049 050 ⇔ 063 064 ⇔ 077 078 ⇔ 091 092 ⇔ 105 106 ⇔ 119 120 ⇔ 133 134 ⇔ 147 148 ⇔ 161 162 ⇔ 175 176 ⇔ 189 190 ⇔ 203 204 ⇔ 217 218 ⇔ 231 232 ⇔ 244 245 ⇔ 255	Color Macros No Function White Red Green Blue Cyan Magenta Yellow Purple Orange Chartreuse Pink Brown Gold Crimson Violet Crepe Color-Change Macro 1 Color-Change Macro 2
5	000 ⇔ 255	Reserved

Troubleshooting

Symptom	Solution(s)	Applies to			
		Lights	Foggers & Snow	Controllers	Dimmers & Chaser
Auto shut off	Check fan thermal switch reset	✓			
Beam is very dim or not bright	Clean optical system or replace lamp Check 220/110v switch for proper setting	✓			
Breaker/Fuse keeps blowing	Check total load placed on device				✓
Chase is too slow	Check users manual for speed adjustment	✓		✓	✓
Device has no power	Check for power on Mains. Check device's fuse. (internal and/or external)	✓		✓	✓
Fixture is not responding	Check DMX Dip switch settings for correct addressing Check DMX cables Check polarity switch settings	✓			
Fixture is on but there is no movement to the audio	Make sure you have the correct audio mode on the control switches. If audio provided via 1/4" jack, make sure a live audio signal exists Adjust sound sensitivity knob	✓		✓	✓
Lamps cuts off sporadically	Possible bad lamp or fixture is overheating. Lamp may be at end of its life.	✓			
Light will not come on after power failure	Some discharge lamps require a cooling off period before the electronics in the fixture can kick start it again, wait 5 to 10 minutes before powering up	✓			
Loss of signal	Use only DMX cables Install terminator Note: Keep DMX cables separated from power cables or black lights.	✓	✓	✓	✓
Moves slow	Check 220/110v switch for proper setting	✓			
No flash	Re-install bulb, may have shifted in shipping	✓			
No laser output	Bounce mirror motor may have shifted during shipping, readjust	✓			
No light output	Check slip ring & brushes for contact Install bulb Call service technician	✓			
Relay will not work	Check reset switch Check cable connections				✓
Remote does not work	Make sure connector is firmly connected to device	✓	✓		
Stand alone mode	All Chauvet lighting fixtures featuring stand-alone functions do not require additional settings, simply power the fixture and it will automatically enter into this mode	✓			

If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at the location on the next page.

Technical Support

Address: Service Dept.
3000 N 29th Ct, Hollywood, FL 33020 (U.S.A.)
Support (Email): tech@chauvetlighting.com
Telephone: (954) 929-1115 - (Press 4)
Fax: (954) 929-5560 - (Attention: Service)
Website: <http://www.chauvetlighting.com>

5. APPENDIX

DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33'), DMX-4.5 (15') and DMX-1.5 (5')

General Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RA #, please include the following information on a piece of paper inside the box:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) The RA #
- 5) A brief description of the symptoms

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

Technical Specifications

WEIGHT & DIMENSIONS

Length..... 6.8 in (173 mm)
Width 6.8 in (173 mm)
Height 9.8 in (249 mm)
Weight 8.3 lbs (3.8 kg)

POWER

Switch-selectable power settings 120V 60Hz AC or 230V 50Hz
Fuse..... 2A 250V
Inrush Power 82W (1.96A) at 120V
Power Consumption 61W (0.54A) Max at 120V
Power Factor 0.90

LIGHT SOURCE

LED..... (1) 14W RGB 50,000hrs

PHOTO OPTIC

Beam Angle 27°
Field Angle..... 53°
Illuminance 64fc (689 lux)

THERMAL

Maximum ambient temperature..... 104°F (40°C)

CONTROL & PROGRAMMING

Data input locking 3-pin XLR male socket
Data output locking 3-pin XLR female socket
Data pin configuration pin 1 shield, pin 2 (-), pin 3 (+)
Protocols..... DMX-512 USITT
DMX Channels 5 or 13

ORDERING INFORMATION

MinWash MinWash
Optional Controller CA-9

WARRANTY INFORMATION

Warranty 2-year limited warranty