DMX-RT

User Manual

1. BEFORE YOU BEGIN

What Is Included

- DMX-RT
- Power Adapter
- Warranty Card
- Quick Reference Guide

Unpacking Instructions

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.

Claims

If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Text Conventions

CONVENTION	MEANING
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel
ON	A value to be entered or selected

Symbols

SYMBOL	MEANING
⚡	Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user.
⚠	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
ⓘ	Important installation or configuration information. The product may not function correctly if this information is not used.
📝	Useful information.

Disclaimer

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Product at a Glance

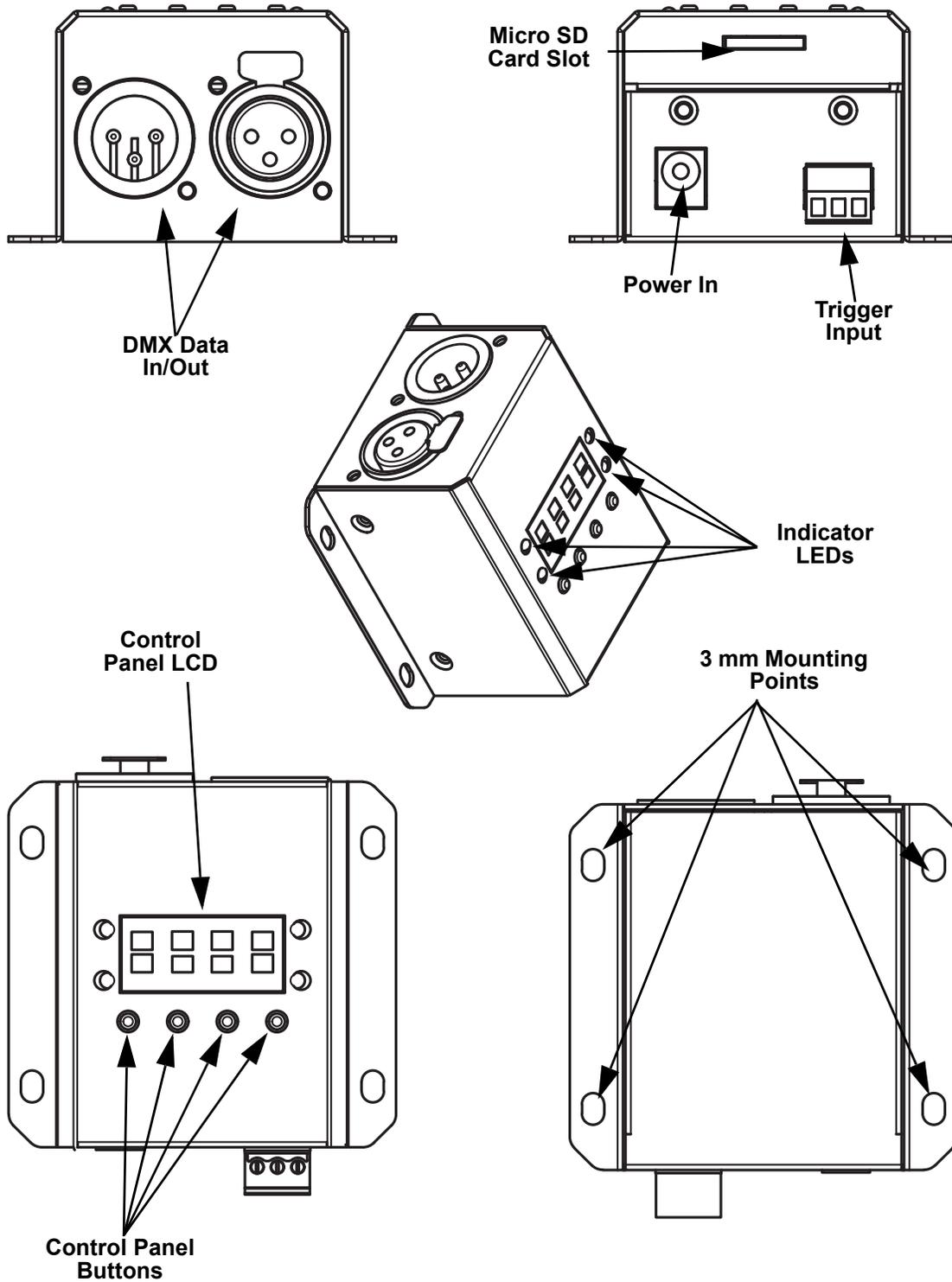|			
Use on Dimmer	🚫	Auto Programs	🚫
Outdoor Use	🚫	Auto-ranging Power Supply	✔
Sound-Active	🚫	Replaceable Fuse	🚫
DMX	✔	User-Serviceable	🚫
Master/Slave	🚫		

Safety Notes

- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power cord by pulling or tugging on the cord.
- If mounting the product overhead, always secure to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the product when operating.

- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the product's housing are blocked.
- Never connect the product to a dimmer.
- Never carry the product from the power cord. Always use the hanging/mounting bracket.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate the product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Never try to repair the product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.

Keep this User Manual for future use. If you sell the product to someone else, be sure that they also receive this document.

2. INTRODUCTION

Product Overview

Micro SD Card Slot

Power In

Trigger Input

DMX Data In/Out

Indicator LEDs

Control Panel LCD

3 mm Mounting Points

Control Panel Buttons

Product Dimensions

0.16 in
4 mm

2.87 in
73 mm

0.24 in
6 mm

3.23 in
82 mm

2.52 in
64 mm

1.81 in
46 mm

2.17 in
55 mm

3. SETUP

AC Power

The DMX-RT has an external auto-ranging power supply that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. It runs on 12 VDC, 1A. To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.

> • **Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
> • **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**
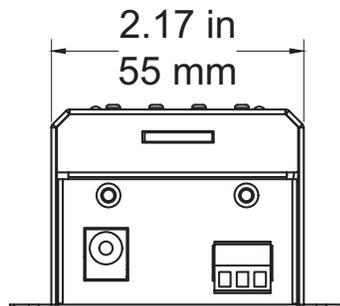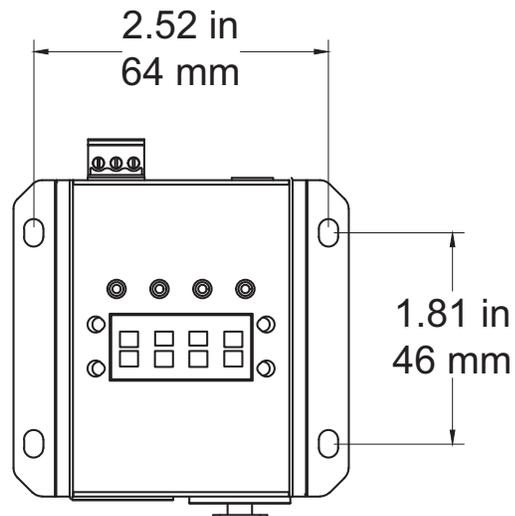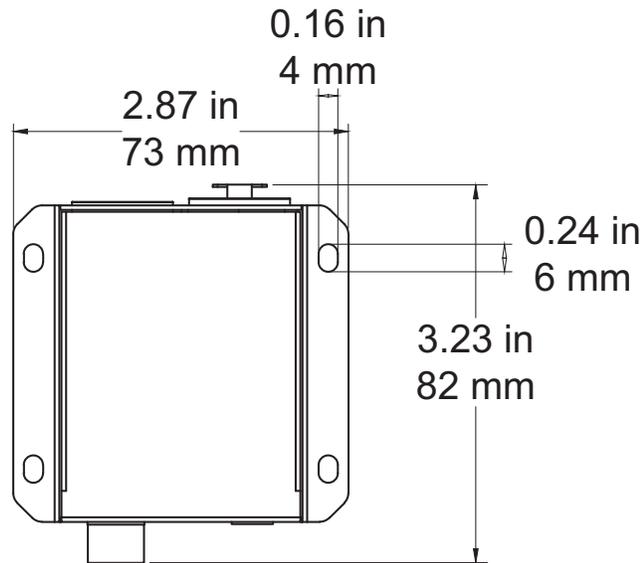
> **Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.**

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes.

Orientation

The DMX-RT may be mounted in any position; however, make sure adequate ventilation is provided around the product.

Rigging

• Before deciding on a location for the product, always make sure there is easy access to the product for maintenance and programming purposes.
• Make sure that the structure onto which you are mounting the product can support the product's weight. See the Technical Specifications for weight information.
• When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
• When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.
• When power linking multiple products, mount the products close enough for power linking cables to reach.
• The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.

Mounting Diagram

Mounting Points

Overhead Mounting

Surface Mounting
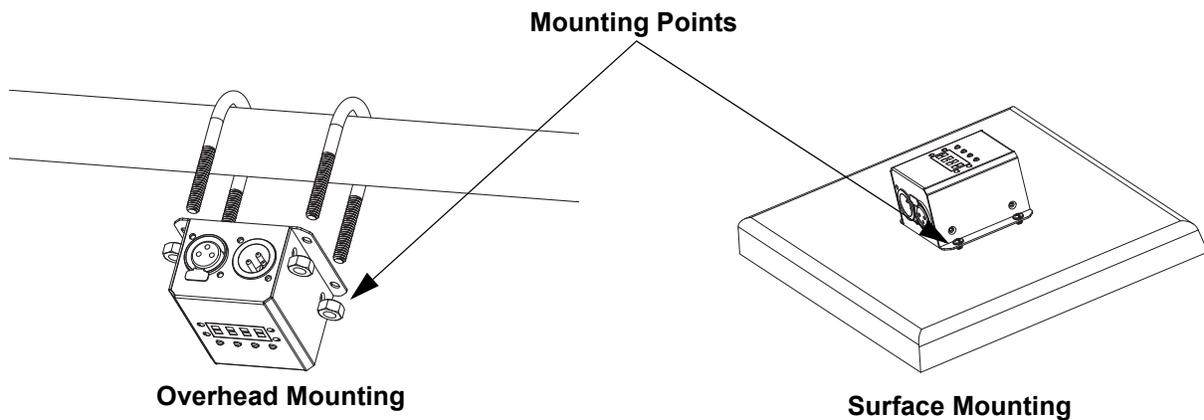
Basic Setup

Below are basic set-up diagrams. Please refer to the other product's user manual for detailed installation instructions.

Trigger Set-up
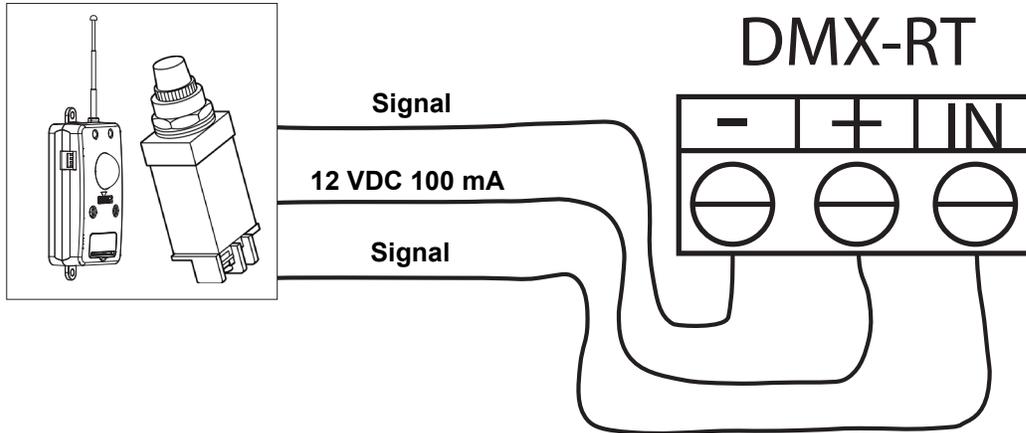
The diagram above illustrates how to connect products to the trigger port of the DMX-RT.

- "**IN**" "**-**" ports are for the signal that allows the DMX-RT to sense whether the circuit is closed or open.
- "**+**" port provides 12 VDC 100 mA of power to connect to other devices if needed.

The diagrams below show open and closed circuits.

Open Circuit
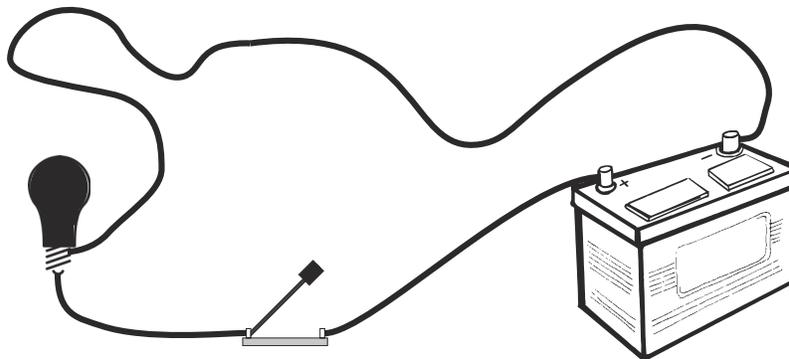
Closed Circuit

DMX Set-up

DMX signal in from controller

DMX signal out to fixtures

4. OPERATION

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display. Please refer to the Product Overview to see the button locations on the control panel.

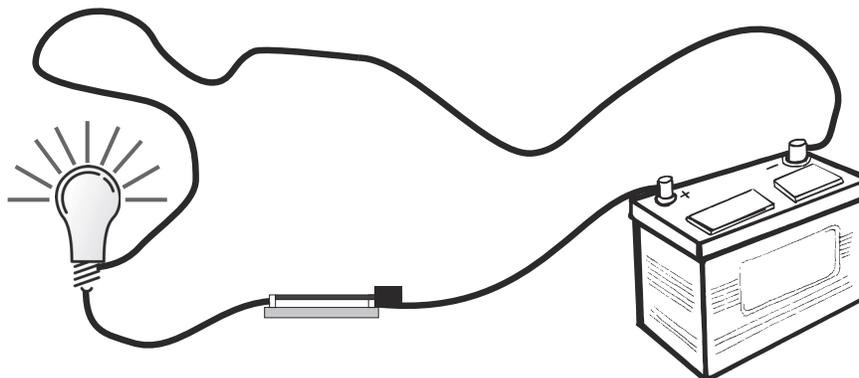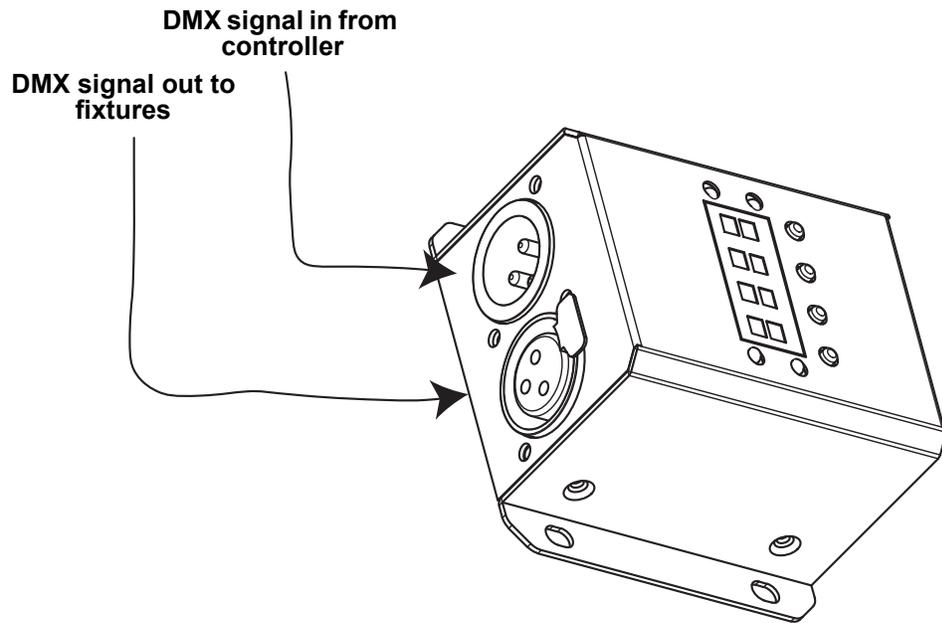| BUTTON	FUNCTION
<MENU>	Press to find an operation mode or to back out of the current menu option
<UP>	Press to scroll up the list of options or to find a higher value
<DOWN>	Press to scroll down the list of options or to find a lower value
<ENTER>	Press to activate a menu option or a selected value

Menu Map

MAIN LEVEL	PROGRAMMING LEVELS			DESCRIPTION
----				Main Level Start
SEtU	**tt**	**nC**		Normal= Closed. Product is set to trigger when circuit opens
		no		Normal= Opened. Product is set to trigger when circuit closes
	rt	**Shot**		Plays the selected show file one time only.
		LooP		Plays the selected show file continuously until trigger is released
	FILE	**F000-999**		Selects the show file to play
	dt	**00-60**		Sets delay time in seconds. until the sequence can be triggered again
	rb	**nAnL**		Sets the trigger mode to press **<Enter>** to start the recording.
		non		Sets the trigger mode to having a DMX value of 001 or higher to start recording.
	rE	**nAnL**		Press **<Enter>** to stop the recording.
		non		Sets the trigger mode to having a DMX value of 000 to stop the recording.
rECo	**F000-999**	**StAr**	**mm.ss**	Select to put product in record mode
rUn	**F000-999**	**StAr**	**mm.ss**	Select a program to test or preview. Press **<Enter>** to begin the sequence and press **<Menu>** to stop.
vEr	**bxx**			Shows the software (bootloader) and firmeware (application) versions
	Axx			

Error Codes

ERROR CODE	DISCRIPTION OF ERROR
err1	File system initialization failed
err2	No working directory found
err3	File creation failed
err5	Failed to read the DMX file tag
err6	The length of the file is not correct, maybe the file is damaged
err7	Failed to read DMX data from file

Configuration

Trigger Set-up

Set the DMX-RT to **nC** if the circuit is "on" (closed) during normal operation. The trigger will be cued when the circuit is turned "off".
1. Go to **SEtU > tt**.
2. Select **nC**.

Set the DMX-RT to **no** if the circuit is "off" (opened) during normal operation. The trigger will be cued when the circuit is turned "on".
1. Go to **SEtU > tt**.
2. Select **no**.

Cue File Setting

The DMX-RT can play the selected cue file one time and then stop (**Shot**) or continuously loop (**LooP**) the same cue after it was triggered.
1. Go to **SEtU > rt**.
2. Select **Shot** or **LooP**.

DMX Sequence File Selection

The DMX-RT can record and play up to 999 different user recorded DMX sequence files. Follow the steps below to set which file to play when triggered.
1. Go to **SEtU > FILE**.
2. Select the desired file number to play. (**F000-999**)

Delay Time

This will set the amount of time (0-60 secs) before the DMX-RT can be triggered again.
1. Go to **SEtU > dt**.
2. Select the desired delay time in seconds. (**00-60**)

Record File Start type

The DMX-RT can initiate recording a DMX sequence file by using DMX (once a value of 001 or higher is sensed the DMX-RT will start recording) or manually on the control panel using the <**ENTER**> button.
Using DMX as a trigger:
1. Go to **SEtU > rb**.
2. Select **non**.

Using manual trigger.
1. Go to **SEtU > rb**.
2. Select **nAnL**.

Record File End type

The DMX-RT can stop recording a DMX sequence file by DMX (once a value of 000 is sensed the DMX-RT will stop recording) or manually on the control panel using the <**ENTER**> button.
Using DMX as a trigger:
1. Go to **SEtU > rE**.
2. Select **non**.

Using manual trigger.
1. Go to **SEtU > rE**.
2. Select **nAnL**.

Record File

After choosing how to start and end the recording...
1. Go to **rECo**.
2. Select the desired file number to record (**F000-999**).
3. To start your recording, follow the recording setup selected above.

Run File

This allows the DMX-RT to run a file manually without having to use a trigger.
1. Go to **rUn**.
2. Select the desired file number to play. (**F000-999**)

Software Version

This shows the firmware.
1. Go to **vEr**.
2. Select **bxxx** for the software (bootloader) version and **Axxx** for the firmware (application) version.

5. MAINTENANCE

Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean your lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.

(i) Always dry the transparent surfaces carefully after cleaning them.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight

LENGTH	WIDTH	HEIGHT	WEIGHT
3.23 in (82 mm)	2.87 in (73 mm)	2.17 in (55 mm)	0.4 lb (0.2 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Power

POWER SUPPLY TYPE	RANGE	VOLTAGE
Switching (external)	100 to 240 VAC, 50/60 Hz	12 VDC 100 mA

PARAMETER	120 V, 60 Hz	230 V, 50 Hz
Consumption	1 W	1 W
Operating Current	0.03 A	0.03 A

Thermal

MAXIMUM EXTERNAL TEMPERATURE	COOLING SYSTEM
104 °F (40 °C)	Convection

DMX

I/O CONNECTOR
3-pin XLR

Ordering

PRODUCT NAME	ITEM CODE	UPC NUMBER
DMX-RT	09081254	781462216023

RoHS

CE

RETURNS

In case you need to get support or return a product:

- If you are located in the U.S., contact Chauvet World Headquarters.
- If you are located in the UK or Ireland, contact Chauvet Europe Ltd.
- If you are located in Mexico, contact Chauvet Mexico.
- If you are located in Benelux, contact Chauvet Europe BVBA.
- If you are located in any other country, DO NOT contact Chauvet. Instead, contact your local distributor. See www.chauvetdj.com for distributors outside the U.S., UK, Ireland, Mexico, or Benelux.

If you are located outside the U.S., UK, Ireland, Mexico, or Benelux, contact your distributor of record and follow their instructions on how to return Chauvet products to them. Visit our website www.chauvetdj.com for contact details.

Call the corresponding Chauvet Technical Support office and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

Send the merchandise prepaid, in its original box, and with its original packing and accessories. Chauvet will not issue call tags.

Clearly label the package with the RMA number. Chauvet will refuse any product returned without an RMA number.

Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.

Chauvet reserves the right to use its own discretion to repair or replace returned product(s).

CONTACT US

World Headquarters	
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Sunrise, FL 33351	Fax: (954) 756-8015
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Fax: (954) 929-5560	**Website**
Toll Free: (800) 762-1084	www.chauvetdj.com
EUROPE	
General Information	**Technical Support**
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9770 Kruishoutem	**Website**
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(Entrance by Calle 2)	
Zona Industrial Lerma	
Lerma, Edo. de México, CP 52000	**Website**
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Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., United Kingdom, Ireland, Mexico or Benelux, contact the dealer of record.