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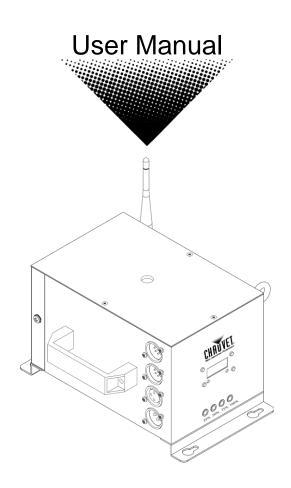




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1. BEFORE YOU BEGIN

What is included

- 1 x Satellite™ D-Fi
- 1 x Antenna
- > 1 x Battery charger
- > 1 x 4-pin DIN cable (1 m in length)
- ► 1 x Warranty Card
- 1 x 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.

Manual Conventions

CHAUVET® manuals use the following conventions to differentiate certain types of information from the regular text.

CONVENTION	MEANING
[10]	A DIP switch to be configured
<menu></menu>	A key to be pressed on the fixture's control panel
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 (for example, showing the operating mode/current status)
MENU > Settings	A sequence of menu options to be followed
ON	A value to be entered or selected

Icons

This manual uses the following icons to indicate information that requires special attention on the part of the user.

Icons	MEANING
\triangle	This paragraph contains critical installation, configuration or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, cause damage to the fixture or cause harm to the user.
(i)	This paragraph contains important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This paragraph reminds you of useful, although not critical, information.

Safety Instructions



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

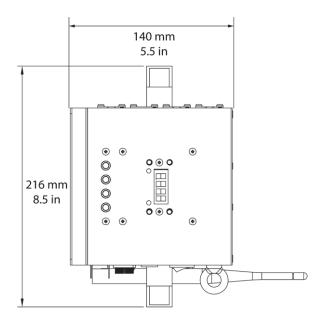
- Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that
 they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the 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 20 in (50 cm) 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 fuse source.
- Secure fixture to fastening device using a safety chain.
- 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.
- Never 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.
- Never carry the fixture directly from the cord. Always use the carrying handles.
- The unit must be operated, charged, and stored upright at all times.

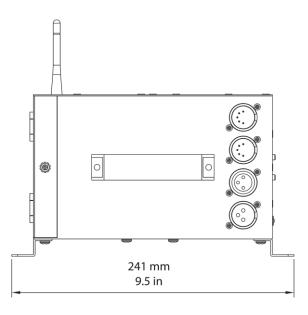
2. Introduction

Features

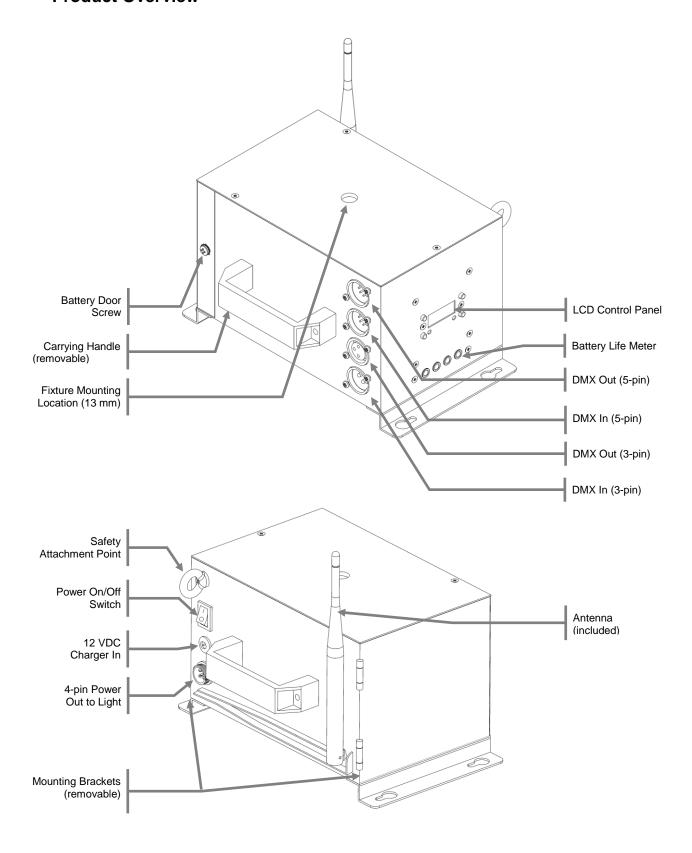
- Cordless battery pack works with all Satellite™-ready fixtures Built-in wireless DMX receiver works with D-Fi system
- 3-pin and 5-pin DMX connections
- LED indicators display battery life
- Easy-access door to connect and change battery
- Removable antenna

Product Dimensions





Product Overview



3. SETUP

Charging the battery

The battery charger runs on 100~240 VAC, 50/60 Hz.

On the supplied battery charger, the LED will light green to indicate that the battery is fully charged. The LED on the battery charger will light red to indicate that the battery is charging.

Please see the following instructions for charging the battery.

- 1. Disconnect the power cable between the Satellite™ D-Fi and the light.
- 2. Turn the power switch to the Satellite™ D-Fi off.
- 3. Plug in the supplied battery charger.
- 4. Allow to fully charge until the LED indicator on the supplied battery charger turns green when connected. This indicates a full charge.
- 5. For best results, charge for 8~10 hours.



The LED on the supplied battery charger will also light green if it is not connected to the Satellite™ D-Fi.



Always connect the charger to a switched circuit. Never connect the fixture to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used only as a 0 to 100% switch.



In order to get an even charge and ensure a long battery life, disconnect the light from the battery <u>before</u> connecting the battery charger. Then, allow the battery to fully charge before using it.

Storing the Product

In order to maintain a long life for the internal battery, the following procedures for storage must be followed.

- 1. Always recharge the battery every 30 days.
- 2. Never leave the battery charging for longer than 12 hours.
- 3. If planning on storing for longer than 30 days, store in a location below 80° F

Battery Replacement

As with any battery, the battery in this product will not last forever. Eventually, it must be replaced. Please see the following instructions for this procedure.

- 1. Disconnect the battery charger.
- 2. Turn the power switch OFF.
- 3. Remove the external battery door screw with a #2 screwdriver
- 4. Remove the internal battery latch screw with a #2 screwdriver.
- 5. Slide the old battery out halfway.
- 6. Remove the positive (+) and negative (-) wires from the old battery.
- 7. Fully remove the old battery.
- 8. Insert the new battery halfway, with the 2 terminals facing towards the batter door.
- 9. Attach the positive (+) and negative (-) wires to the new battery.
- 10. Fully insert the new battery.
- 11. Replace the external battery door screw with a #2 screwdriver
- 12. Replace the internal battery latch screw with a #2 screwdriver.
- 13. You may now use the product under normal operation.



If you feel any resistance when reinstalling the new battery, STOP. Do not force the new battery into position. You may cause damage the product which may cause a hazardous condition.

Mounting

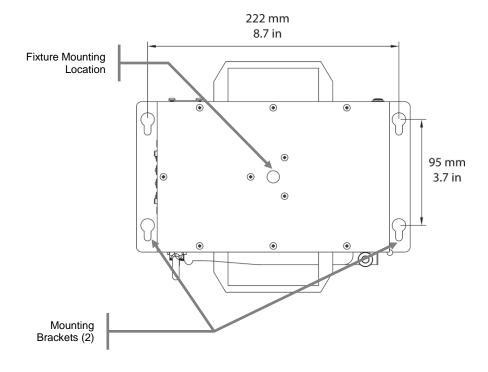
Orientation

The Satellite™ D-Fi may be mounted in an upright, safe position, provided there is adequate room for ventilation.

Rigging

Be sure that the structure can support the weight of the fixture. Please see the "Technical Specifications" section of this manual for a detailed weight listing. Mount the fixture securely. This may be done with a screw, nut and bolt, or a hanging clamp. The hole in each mounting bracket is 13 mm in size. When rigging, consider routine maintenance and control panel access. Please see the following steps for installation.

- Due to the internal battery in the product, this product may not be operated in a position other than upright.
- Safety cables must always be used.
- 2 clamps, one on either mounting bracket, must be used if operating this fixture is any position other than floor standing.



D-Fi™ PLUS/Satellite™ D-Fi Configuration Options

The Satellite™ D-Fi is fully compatible with the standalone D-Fi™ PLUS wireless DMX products.

DMX connection for the Satellite™ D-Fi

There are both 3-pin and 5-pin DMX connection on the product. However, only one input and one output must be used at any time.

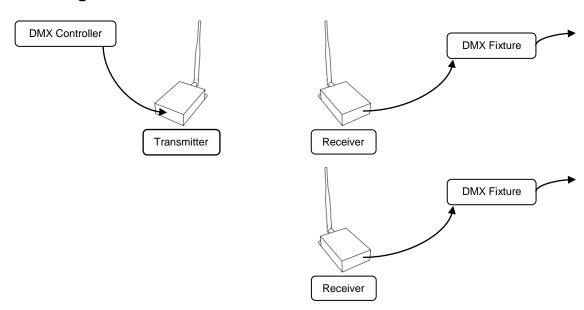
Configurations

- 1. A transmitter is connected to the output of the controller, and a receiver is connected at the input of the first DMX fixture.
- 2. A transmitter is connected to the output of a DMX fixture, and a receiver is connected to the input of the next DMX fixture.

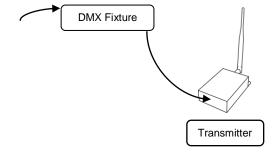


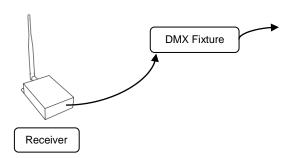
The following diagrams are to demonstrate possible configurations. Multiple receivers may be used in any possible configuration.

Configuration #1



Configuration #2





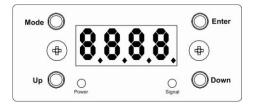
4. OPERATING INSTRUCTIONS

Using the control panel

Press **<MODE>** to switch between transmit and receive mode; this will also enable the frequency assignment.

Press < DOWN/UP> to scroll through the operating frequencies.

Press <ENTER> to save the settings.



Menu Option	Description	
•	Receive mode: Sets the Satellite™ D-Fi/D-Fi™ PLUS to receive from a transmitting D-Fi™ PLUS operating on the same frequency	
દ	Transmit mode: Sets the Satellite™ D-Fi/D-Fi™ PLUS to transmit to a receiving Satellite™ D-Fi/D-Fi™ PLUS operating on the same frequency	
305-358	Operating frequency: from <902> to <928>	



A system is one Satellite™ D-Fi/D-Fi™ PLUS transmitting and one or more Satellite™ D-Fi/D-Fi™ PLUS units receiving on the same frequency.



A minimum of 2 Satellite™ D-Fi/D-Fi™ PLUS units are required for operation.

Mode Selection

Each Satellite™ D-Fi may be used as a transmitter or a receiver, and is thereby referred to as a transceiver. In order to the appropriate mode, please see the following steps.

- 1. Press <MODE>. The first group of segments on the LED display will begin blinking rapidly.
- 2. Press **<MODE>** again to change between **(receive)** and **(transmit)**.
- 3. Press **<ENTER>.**

Frequency Selection

An operable system requires one transmitter and at least one receiver to be used on the same frequency. Please see the steps below for instructions on how to set the frequency.

- 1. Press <MODE>. The first group of segments on the LED display will begin blinking rapidly.
- 2. Use **<UP>** and **<DOWN>** to select the frequency **<932-928**).
- Press < ENTER>.

5. APPENDIX

DMX Primer

There are 512 channels in a DMX connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 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+).

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.
- 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 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 surroundings can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. Clean the external optics at least every 20 days. Clean the fixture at least every 30/60 days.



Always dry the parts carefully after cleaning them.



Never spin a fan using compressed air.

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.

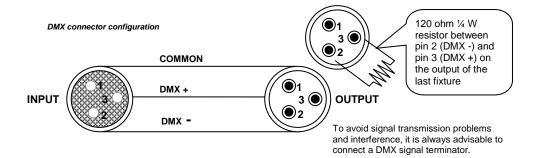
DMX Data Cable

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 must have the following characteristics:

Type: shielded, 2-conductor twisted pair Maximum capacitance between conductors: 30 pF/ft Maximum capacitance between conductor and shield: 55 pF/ft Maximum resistance: 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.





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.

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX 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.



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 fixtures 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 m (1640 ft)

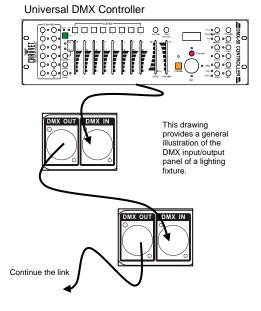
Maximum recommended number of fixtures on a serial data link: 32

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

Setting up a DMX Serial Data Link

- Connect the (male) 3-pin connector side of the DMX cable to the output (female) 3-pin connector of the controller.
- 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.
- Then, proceed to connect from the output as stated above to the input of the following fixture and so



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 Merchandize Authorization Number (RMA #). Products returned without the RMA # will be refused. Call CHAUVET® and request an RMA # 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 pack fixture properly; any shipping damage resulting from inadequate packaging is the customer's responsibility. As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

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



If you are given an RMA #, 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 RMA #
- 5) A brief description of the symptoms

Setting the Starting Address

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a start address from 1~512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that uses six DMX channels and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, and 105. Choose start addresses so that the channels used do not overlap, and note the start address selected for future reference.

If this is your first time addressing a fixture using the DMX control protocol, we suggest jumping to the "Appendix" section and reading the heading "DMX Primer". It contains very useful information that will help you understand its use.

General Troubleshooting

SYMPTOM	Possible Cause(s)	Possible Action(s)
Breaker/Fuse keeps blowing	Excessive circuit load	Check total load placed on the electrical circuit.
	Short circuit along the power wires	Check for a short in the electrical wiring (internal and/or external)
Device does not	No power	Check for power on power outlet
power up	Loose power cord	Check power cord
	Wrong DMX addressing	Check Control Panel and unit addressing
	Damaged DMX cables	Check DMX cables
Fixture is not responding to	Wrong polarity settings on the controller	Check polarity switch settings on the controller
DMX	Loose DMX cables	Check cable connections
	Faulty DMX interface	Replace DMX input
	Faulty Main PCB	Replace Main PCB
	Non DMX cables	Use only DMX compatible cables
Loss of signal	Bouncing signals	Install terminator as suggested
	Long cable / Low level signal	Install amplifier right after fixture with strong signal
	Too many fixtures	• Install an optically coupled DMX splitter after unit #32
	Interference from AC wires	 Keep DMX cables separated from power cables or black lights



If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support.

Contact Us

World Wide

General Information CHAUVET

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

Technical Support CHAUVET

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

3-Pin to 5-Pin Conversion Chart



If you use a controller with a 5-pin DMX output connector, you will need to use a 5-pin to 3-pin adapter. 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
Not used		Pin 4
Not used		Pin 5

Technical Specifications

WEIGHT & DIMENSIONS Length	8.5 in (216 mm) 5.5 in (140 mm)
POWER Supplied battery charger 12 VDC 2,000 mA, 24 VA output	t (100~240 VAC, 50/60 Hz, 1.5 A input)
COOLING	Convection cooled
OPERATING RANGE (BAND/FREQUENCIES) UHF	902 Mhz ~ 928 Mhz
BATTERY Sealed lead acid (SLA) Output voltage	
THERMAL Maximum ambient temperature	104° F (40° C)
CONTROL & PROGRAMMING Data input	locking 3-pin XLR female socket locking 5-pin XLR male socket locking 5-pin XLR female socket locking 3-pin XLR female socket
ORDERING INFORMATION Satellite™ D-Fi	SATELLITEDFI
WARRANTY INFORMATION Warranty	2-year limited warranty