

USER MANUAL

W-DMX Micro

T-1 TRX G5



Edition Notes

The W-DMX Micro T-1 TRX G5 User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the W-DMX Micro T-1 TRX G5 as of the release date of this edition.

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Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

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Document Revision

This W-DMX Micro T-1 TRX G5 User Manual is the 1st edition of this document. Go to www.chauvetprofessional.com for the latest version.

TABLE OF CONTENTS

1. Before You Begin	1
What Is Included	1
Claims	1
Manual Conventions	1
Symbols	1
FCC Compliance	1
RF Exposure Warning for North America and Australia.....	1
Safety Notes.....	2
Personal Safety.....	2
Power and Wiring.....	2
Operation	2
2. Introduction	3
Description	3
Features	3
Product Overview.....	3
Product Dimensions	4
3. Setup	5
AC Power	5
AC Plug	5
Battery Notes	5
5 GHz	5
RDM	5
4. Operation	6
User Interface.....	6
Basic Setup	7
Linking Devices	7
Unlinking Devices.....	7
Flex Mode	8
5. Technical Information	9
Product Maintenance	9
6. Technical Specifications	10
Returns	11
Contact Us	12

1. Before You Begin

What Is Included

- W-DMX Micro T-1 TRX G5
- Micro USB to wall wart adapter
- Velcro attachment strap
- User Manual





Claims

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

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.

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.

FCC Compliance

This device complies with Part 15 Part B of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Warning for North America and Australia

Warning! This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.



This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.



All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

- Always disconnect the product from the power source before cleaning.
- Make sure there are no flammable materials close to the product when operating.
- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture. (IP20)
- CAUTION: When transferring product from extreme temperature environments, (e.g., cold truck to warm, humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.

Power and Wiring

- Make sure the power cord is not crimped or damaged.
- Always make sure you are connecting the product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if there is damage on the housing or cables. Have the damaged parts replaced by an authorized technician at once.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate the product at higher temperatures.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
- In the event of a serious operation problem, stop using this product immediately!



If your Chauvet product requires service, contact Chauvet Technical Support.

2. Introduction

Description

The W-DMX Micro T-1 TRX G5 Transceiver works with W-DMX wireless wash lights, including all WELL and Maverick fixtures, to generate a wireless control signal for both DMX and RDM protocols. These compact devices can also be set up to transmit or receive W-DMX signals to make any fixture or rig wireless. It features a 5 V USB power supply. It can be used with (4) AAA batteries for up to 4 hours in transceiver mode and 8 hours in receiver mode. Indicator LEDs easily show signal strength, battery life, and transceiver or receiver mode.

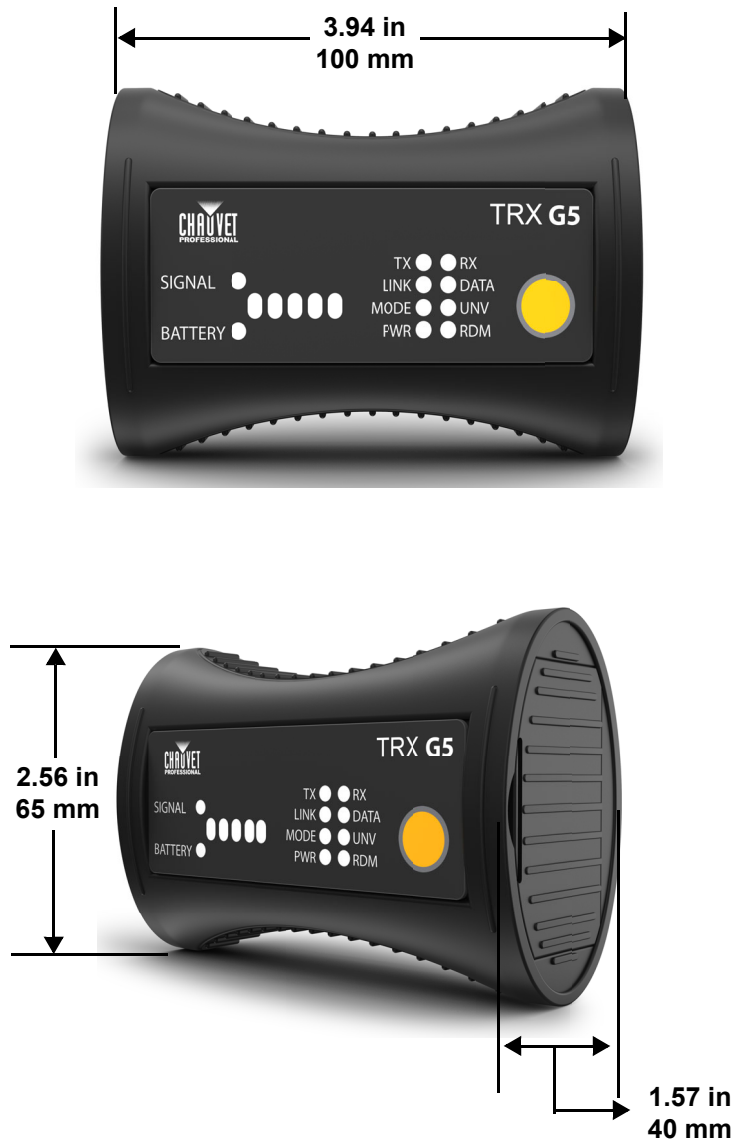
Features

- Transmit and receive 1 universe of W-DMX and RDM protocols
- Power with included 5 V USB power supply or 4 AAA batteries (not included)
- Batteries last for up to 8 hours in receiver mode and 4 hours in transceiver mode
- Built-in indicator lights for signal and battery strength and operation modes
- Can be used directly with any Maverick or WELL fixtures
- Can be used to make any lighting system wireless for data

Product Overview



Product Dimensions



3. Setup

AC Power

To determine the power requirements for the W-DMX Micro T-1 TRX G5, refer to the label affixed to the product. You can also refer to the [Technical Specifications](#) chart in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, download Sizing Circuit Breakers from the Chauvet website: www.chauvetprofessional.com.



- **Always connect the product to a protected circuit (a 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.**

AC Plug

The W-DMX Micro T-1 TRX G5 comes with a 5 V power adapter terminated with micro USB connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need the change the plug, use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Battery Notes

- The W-DMX Micro T-1 TRX G5 works with (4) AAA batteries.
- The W-DMX Micro T-1 TRX G5 also accepts rechargeable batteries but does not recharge them when plugged to its USB power supply.



Battery life: 8 hours on Receive Mode, 4 hours on Transmit Mode

5 GHz

The W-DMX Micro T-1 TRX G5 comes with 5 GHz disabled from front-interface control. To scroll through and use all the modes available for the W-DMX Micro T-1 TRX G5, the 5 GHz must be enabled first. This can be done with the W-DMX Dongle and the downloadable W-DMX Configurator software available at:

<https://wirelessdmx.com/download/>

To enable 5 GHz in the W-DMX Configurator software interface:

1. Go to the **Device Settings** tab.
2. Choose **Enable 5.8 GHz** and click the drop-down box next to it.
3. Choose **On**.

RDM

Remote Device Management (RDM) is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. The W-DMX Micro T-1 TRX G5 comes with RDM disabled by default. The RDM on the W-DMX Micro T-1 TRX G5 can be enabled using the W-DMX Dongle and the downloadable W-DMX Configurator software available at: <https://wirelessdmx.com/download/>

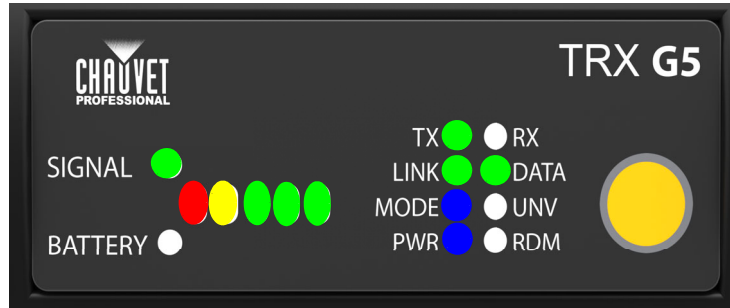
To enable RDM in the W-DMX Configurator software interface:

1. Go to the **Device Settings** tab.
2. Choose **Downstream RDM** and click the drop-down box next to it.
3. Choose **On**.

4. Operation

User Interface

This section explains the labels and information on the W-DMX Micro T-1 TRX G5 user interface (see also [Introduction](#) section).



Label	Description
SIGNAL	Shows whether the W-DMX Micro T-1 TRX G5 is receiving/sending a signal or not
Signal bars	<p>On a transmitter, indicates the power output in mW:</p> <ul style="list-style-type: none"> • Full bar – 475mW • 2 green LEDs – 375mW • 1 green LED – 100mW • Yellow LED – 25mW • Red LED – no signal
BATTERY	On a receiver , indicates signal strength
TX	Indicates battery life of the W-DMX Micro T-1 TRX G5
RX	Indicates whether the W-DMX Micro T-1 TRX G5 is operating as a transmitter (see Flex Mode)
LINK	<p>Indicates whether the W-DMX Micro T-1 TRX G5 is operating as a receiver (see Flex Mode)</p> <p>On a transmitter, indicates it is ready to establish a link</p> <p>On a receiver:</p> <ul style="list-style-type: none"> • Light off – no active link • Light on – the device is paired to a transmitter • Light blinking – the device has lost its link (either the transmitter is out of range or turned off) <p>(see Linking Devices)</p>
DATA	Indicates whether data is being sent to the transmitter/receiver. If the LED is off, check if the DMX cable is plugged correctly to the transmitter.
MODE	Indicates the radio mode
UNV	Indicates double-up mode
PWR	Indicates power condition of the device
RDM	Indicates whether RDM is active or disabled (see RDM)

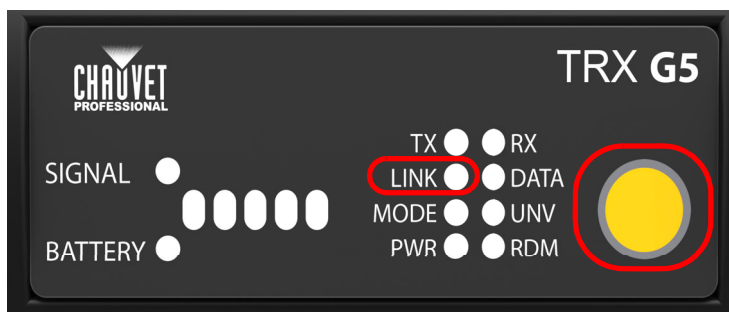
Basic Setup

The following sections detail how to link and unlink the W-DMX Micro T-1 TRX G5 with compatible devices.

Linking Devices

In optimal conditions, the W-DMX Micro T-1 TRX G5 can operate up to 300 m (900 ft) away from any linked device. The W-DMX Micro T-1 TRX G5 transmitter must be paired with the W-DMX receiver of the compatible device for wireless operation. To pair the devices:

Press the yellow function button, on the transmitter, for **1 second**, until the **LINK** LED starts flashing. The **LINK** LED of each receiver will flash for 5 seconds and stay static once linked up.



- All available receivers that are turned on and compatible with the transmitter's radio mode will pair with the transmitter.
- W-DMX operation can be interrupted or inhibited by liquid masses between the transmitter and receiver such as water, snow, or people. For best results, keep the area between the transmitter and receiver clear of any liquid mass.

Linking Multiple Devices

Each transmitter can be linked up to an infinite number of receivers. To link multiple W-DMX Micro T-1 TRX G5 transmitters with multiple receivers, follow the instructions above but power on only the devices that need to be paired up, and turn off all the receivers that do not need to be paired up.



Once a WDMX receiver has been linked to a specific WDMX transmitter, it will remain linked to that specific transmitter until it is linked to a different one.

Unlinking Devices

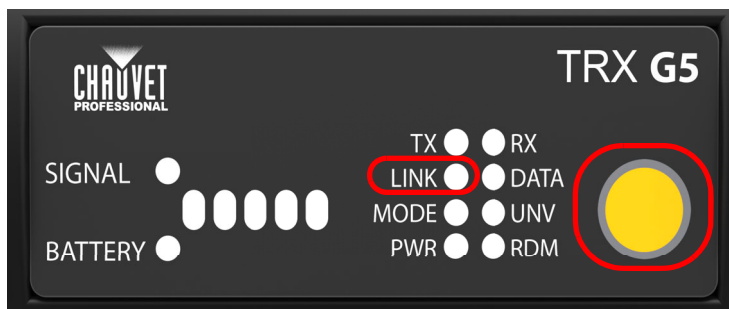
There are two ways to unlink devices—individual or group unlink.

Individual unlink

Press and hold the yellow function button, **on each receiver, for 5 seconds**. The LINK LED should turn off.

Group unlink

Press and hold the yellow function button, **on the transmitter, for 5 seconds**. All paired and powered receivers will unlink.



Operation

Flex Mode

The W-DMX Micro T-1 TRX G5 is a transceiver capable of operating as a transmitter or receiver. The flex mode determines if the W-DMX Micro T-1 TRX G5 is used in Transmit mode (**TX**) or Receive mode (**RX**).

To switch between these two modes:

1. Disconnect the power cable.
2. Press and hold the yellow function button on the front panel.
3. While holding the button, reconnect the power cable.
4. Release the yellow function button.

The **TX** LED will turn off and the **RX** LED will turn on if switching from Transmit mode to Receive mode, and vice-versa if switching from Receive mode to Transmit mode.

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

Clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean the product:

1. Unplug the product from power and switch off.
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 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.



Always dry the transparent surfaces carefully after cleaning them.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
3.94 in (100 mm)	1.57 in (40 mm)	2.56 in (65 mm)	1.67 lb (800 g)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100 to 230 VAC, 50/60 Hz	Auto-ranging

Parameter	Values
Consumption	9 VDC
Operating current	1 A

Power I/O	U.S./Worldwide	UK/Europe
Power input connector	Micro USB	Micro USB
Power cord plug	Edison (U.S.)	Local plug

Battery

Battery type	Battery Life (Receiver Mode)	Battery Life (Transceiver Mode)
AAA	8 hours	4 hours

DMX

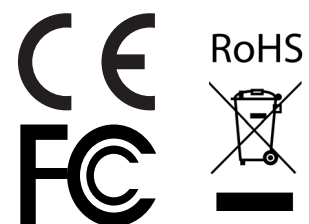
DMX Connectors
XLR 5-pin male

Thermal

Maximum External Temperature
113 °F (45 °C)

Ordering

Product Name	Item Name	Item Code	UPC Number
W-DMX Micro T-1 TRX G5	MICROF1G5WDMX	99111483	781462218137



Returns

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

Call Chauvet 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(s) for the return.

To submit a service request online, go to www.chauvetprofessional.com/service-request.

Clearly label the package with an 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.

Once you have the RMA number, provide 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

General Information	Technical Support
Chauvet World Headquarters	
Address: 5200 NW 108th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetprofessional.com
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Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, France, Germany, Benelux, or Mexico, contact the dealer of record.