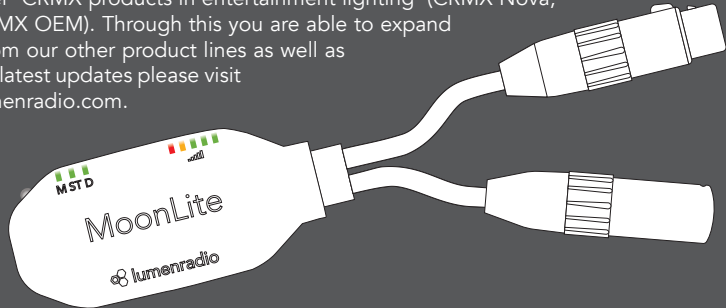


## INTRODUCTION

Thank you for buying a LumenRadio CRMX MoonLite product. This guide is intended to give you a quick start to experience the benefits of LumenRadio's CRMX system.

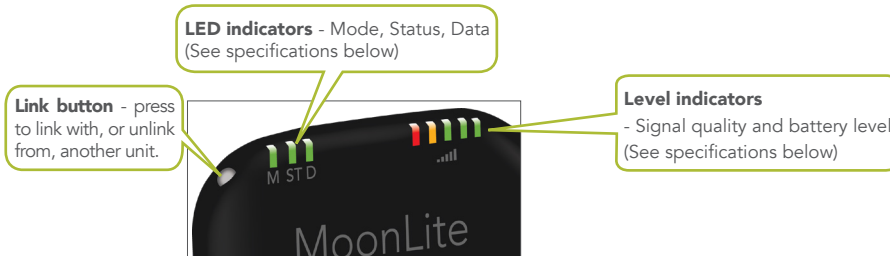
The CRMX product you just purchased are designed to give you the highest reliability on the market and are fully compatible with other CRMX products in entertainment lighting (CRMX Nova, CRMX Outdoor, CRMX Slim, CRMX OEM). Through this you are able to expand your wireless system with units from our other product lines as well as with those of our partners. For the latest updates please visit the LumenRadio website [www.lumenradio.com](http://www.lumenradio.com).

We hope that you will enjoy our products and that they will bring benefits and positive experiences.







## CRMX MOONLITE CONTROL PANEL







See the operation section for details on how to link and unlink CRMX MoonLite units. Indicators turn off after 30 sec inactivity when running on battery, press the button to wake up.



### Mode (M)

-  RX mode
-  TX mode
-  BLE on (RX mode)
-  BLE on (TX mode)



### Status (ST)

- RX mode
  -  Linked and synced
  -  Linking or linked but not synced
  -  Not linked
- TX mode
  -  Transmitting
  -  Linking
-  color of ST = universe color selected by user (green by default)

### Data (D)

-  No DMX
-  DMX present
-  RDM, no DMX
-  RDM, with DMX

### Level indicators

-  Right green >80%
- Mid green >60%
- Left green >40%
- Amber >20%
- Red <20%
-  when D = green, level bar displays battery level  
when D = amber, level bar displays signal quality


## POWER ON/OFF

Power on the device by pressing and holding its link button for 5 seconds until the LEDs lights up. Power off the device by pressing and holding its link button for 5 seconds until the LEDs turn off.

## LINKING

MoonLite can link with any other LumenRadio CRMX unit.

### TO LINK

1. Power on the MoonLites you would like to connect.
2. Configure the MoonLite for RX/TX mode (see instructions below)
3. Ensure that the Status LED indicators on all receivers are off to indicate that the receivers are ready to be linked. (If necessary, follow the unlink procedure.)
4. On the transmitter, press and release the link button.
5. The transmitter will search for any unlinked receivers. Its Status LED indicator will flash for 10 seconds and normal operation will resume.
6. Status LED will display  (in the selected universe color) on successfully linked receivers.

### TO UNLINK

- **Unlink one:**  
On the receiver, press and hold its link button for more than 3 seconds (until ST LED is lit) to unlink it from a transmitter. The Status LED indicator will turn off.
- **Unlink all:**  
On the transmitter, press and hold its link button for more than 3 seconds (until ST LED is lit) to unlink all of its receivers.

## FLEX MODE CHANGING

MoonLite offers the ultimate flexibility to operate as either a transmitter or a receiver. (RX by default)

The Mode LED indicator shows different colors depending on the units current configuration

-  Mode LED displays yellow: Receiver mode selected
-  Mode LED displays red: Transmitter mode selected

The mode can be changed in the *CRMX Toolbox app*. You can also switch mode by using a manual button press sequence (see below).

## MANUAL CHANGE OF MODE

1. If LEDs are off – press the link button once to wake up the device.
  2. Press and release the link button five times in succession, then immediately press and hold the button for three seconds (until ST LED is lit).
  3. You can now change the Flex mode as desired. The mode LED will indicate the selected mode by blinking in the modes corresponding color (red/yellow).
- To step between Flex modes: Press and release the link button to move to the next mode.
  - To save changes: Press and hold the link button for three seconds. The unit will revert to normal operation using the newly selected mode.
  - To exit without saving changes: The unit will revert to normal operation if you do not press the link button within fifteen seconds.

The unit will continue to act as configured until you actively change the mode (even if you turn the unit off).

## MANUAL RESET OF PIN CODE

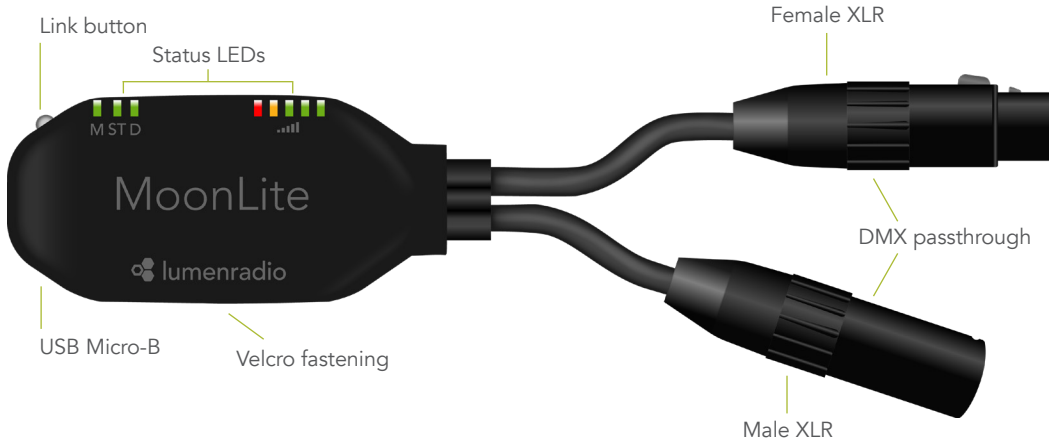
If LEDs are off – press the link button once to wake up the device. Press and release the link button seven times in succession. Then immediately press and hold the button for three seconds. You have now successfully reseted the pin code.

## SWITCHING BLUETOOTH ON/OFF

If LEDs are off – press the link button once to wake up the device. Press and release the link button. Then immediately press and hold the button for three seconds. *For full DMX integrity we recommend to switch off Bluetooth during operation.*

## PRODUCT SPECIFICATIONS

MoonLite comes with Bluetooth connectivity and an internal antenna. The rechargeable battery provides up to 12h operation in receiver mode, with a charging time of only 3h.



## UNIVERSE COLOR

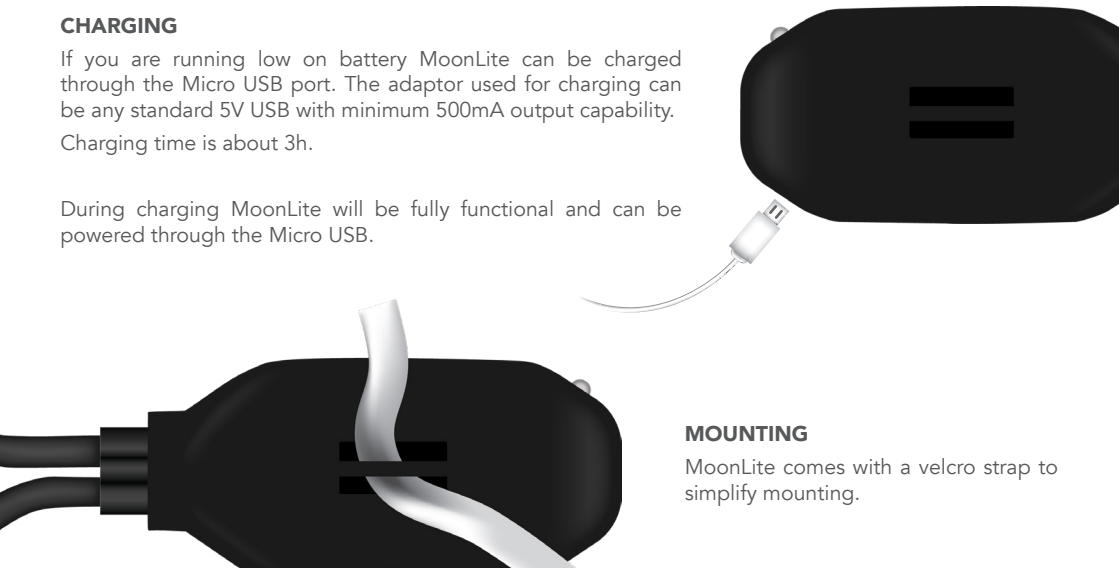
To keep track of which MoonLites belongs to which universe you can use the color pairing function available in the *CRM ToolBox* app.

1. Open the app and select the MoonLite configured for TX mode.
  2. In the settings for this unit, select the color of your choice in the options shown.
  3. The Status LED on your TX will now display your selected color.
  4. All RX units linked to this TX will also show your selected color.
- Until selecting a color, all units will have the green color by default.

## CHARGING

If you are running low on battery MoonLite can be charged through the Micro USB port. The adaptor used for charging can be any standard 5V USB with minimum 500mA output capability. Charging time is about 3h.

During charging MoonLite will be fully functional and can be powered through the Micro USB.



## MOUNTING

MoonLite comes with a velcro strap to simplify mounting.

## SPECIFICATIONS

Power protection:	Overvoltage and ESD protected power input
Operation temp. range:	-20°C to +40°C (-4°F to 122°F) (ambient)
Environmental:	For indoor use only
Frequency range:	2.402 to 2.480 GHz
Output power levels:	15mW, 40mW, 100mW
Low voltage operation:	This product can also be powered by a supply rated 5V, minimum 500mA

## FCC statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or

television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For any questions, please contact  
[help@lumenradio.com](mailto:help@lumenradio.com) or visit  
<https://support.lumenradio.com>

## EU Declaration of Conformity

These products comply with the RED (Radio Equipment Directive) of the European Union (2014/53/EC). This equipment meets the following conformance standards:

ETSI EN 301 489-1 V2.1.1; ETSI EN 301 489-3 V2.1.1;  
ETSI EN 300 328 V2.1.1; EN 60950

Release 2.0 October 2019

## CRMX Toolbox app



Scan the QR code to download the CRMX Toolbox app.



FCC ID: XRSTIMOMWAN201  
IC: 8879A-TIMOMWAN201

US Patent 7,432,803

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