CRMX Nova DMX CRMX Nova RDM CRMX Nova Flex



Introduction

quick start guide **LumenRadio**

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

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

CRMX Nova control panel

See the operation section for details on how to link and unlink CRMX Nova units.



CRMX Nova operation indications

When operating, the CRMX Nova units show different indications depending on its mode and link status:



• Keep away from large metal objects

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Linking

CRMX Nova units can link with any other CRMX units as well as legacy W-DMX[™] (G2/G3/G4) transmitters (2.4 GHz only).

To link

- 1. Ensure the antenna is connected.
- 2. Power on the transmitter and receiver(s).
- 3. Ensure that the RF Link indicators on all receivers are off to indicate that the receiver(s) are ready to be linked. (If necessary, follow the unlink procedure.)
- 4. On the transmitter, press and release the 🌋 button.
- 5. The transmitter will search for any unlinked receivers. Its RF Link indicator will flash for 10 seconds and normal operation will resume.
- 6. The RF Link indicator will change to a steady on-state on successfully linked receivers.

To unlink

- Unlink one: On the receiver, press and hold its button for more than 3 seconds to unlink it from a transmitter. The RF Link indicator will extinquish.
- Unlink all: On the transmitter, press and hold its so button for more than 3 seconds to unlink all of its receivers.

Flex mode changing

The CRMX Nova Flex unit offers the ultimate flexibility to operate as either a transmitter or a receiver. The CRMX Nova Flex unit is pre-configured as a **receiver**. The mode can be changed in either of two ways:

1. Using the SuperNova software. Please refer to the SuperNova website at www.lumenradio.com/supernova for more information.

2. Using a special button press sequence on the CRMX Nova Flex unit.

To change Flex modes

1. Press and release the 🔊 button five times in succession. Then immediately press and hold the 🔊 button for three seconds until the Lock and Power indicators begin alternately flashing. One of the signal quality indicators will be on:



Amber indicator on: Receiver mode selected

Red indicator on: Transmitter mode selected

- 2. You can now change the Flex mode as required. Note that the unit will automatically revert to normal operation fifteen seconds after you last pressed the button.
- To step between Flex modes: Press and release the 🚿 button to move to the next mode.
- To save changes: Press and hold the 🐼 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 🔊 button within fifteen seconds.

SuperNova

For configuration, management and monitoring of all CRMX units as well as RDM compatible devices, LumenRadio provides the software SuperNova free of charge. SuperNova is needed in order to configure network and port settings, manage frequency usage, etc.

SuperNova connects to any number of CRMX transmitters through Ethernet. For best performance, LumenRadio recommends using a network switch and straight through Ethernet cables. All CRMX units equipped with Ethernet are delivered with the following default network settings:

Unit factory defaults

IP Address: 192.168.0.162 Netmask: 255.255.255.0



SuperNova runs on any Windows, Mac OS X or GNU/Linux computer with a Java runtime environment of at least version 1.6. The latest version of SuperNova as well as detailed user guides can be accessed at www.lumenradio.com/supernova.

Rear panel connections



Mounting

Each CRMX Nova unit is supplied with a M10 T-screw and nut to allow the unit to be securely fixed to any mounting point, such as trussing.

To use a T-screw

- 1. Lower the T-screw into the slot on the side of the unit and then twist it clockwise to lock.
- 2. Place the nut onto the screw.
- 3. Turn the nut clockwise until it tightens across the slot, thus locking the T-screw securely within the slot.
- 4. You can now attach the unit to a secure mounting point.

Security wire:

All CRMX Nova units have slots where a security wire can be attached. See illustration.

Firmware upgrade

All CRMX units are upgradeable. Please contact your local distributor for more information.

Specifications

Power protection:	Overvoltage and ESD protected power input	
Operation temp. range:	-20°C to +50°C (-4°F to 122°F) (ambient)	
Environmental:	For indoor use only	
Frequency range:	2.402 to 2.480 GHz	
Output power levels:	300mW (25dBm) (Permitted only in North America), 100mW (20dBm), 35mW (15dBm), 10mW (10dBm)	



Specifications - model dependent		
Panel label	Power req. 85 - 264VAC	Power req. 12VDC ± 20%
тх	5W	5W
TX2	11W	11W
RX	3W	3W
TX2 ₄RDM⊁	11W	11W
RX ₄RDM►	3W	4W
FX ₄RDM≻	4W	8W

FCC statement

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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:

In cooperation with Corporate Text & Design (www.ctxd.com)

EU Declaration of Conformity

These products compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards: ETSI EN 301 489-1 V1.8.1; ETSI EN 301 489-3 V1.4.1; ETSI EN 300 328 V1.7.1; EN 609 50

- 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.



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