

Stardust



Eight Universe DMX/RDM transmitter with Ethernet, WiFi and Bluetooth

Stardust is the problem solver for the most demanding users and situations. Featuring eight universes of CRMX and multiple connectivity options, it is the most sophisticated Wireless DMX system on the market. With the introduction of Cognitive Coexistence with Fleet Alliance it has the reliability you've come to trust, with the universes you need.

Tailor your equipment to meet your specific needs with accessories such as V-Lock battery mount, rack mount, and wall mount.

Fleet Alliance enables expansion of your universes beyond eight as the transmitters automatically can coordinate the spectrum, providing many more universes without the need for frequency planning.

Linking Key encrypts the CRMX transmission with user specified keys, making it possible to move between CRMX networks in a completely new, smooth, way.

- Eight universe CRMX transmitter
- DMX/RDM, sACN and Art-Net 1-4
- Ethernet, 5 GHz WiFi and Bluetooth
- Configuration via web portal, app or front panel
- Compatible with CRMX and W-DMX G3/G4s





EIGHT UNIVERSE TRANSMITTER





COGNITIVE COEXISTENCE

FLEET ALLIANCE

Stardust Specifications

Supported Protocols DMX / RDM sACN / Art-Net 1-4 CRMX W-DMX G3 / G4s Ethernet WiFi 802.11b/g/n/ac Bluetooth 5.0 RF Characteristics Frequency: 2402-2480 MHz Built on TimoTwo Fixed 5ms latency

128-bit encryption
Forward Error Correction

Connectors

Ethernet: RJ45 Antennas: 2dBi RP-TNC DC: 2.5mm/5.5mm Barrel AC: powerCON TRUE1 Power

PoE IEEE 802.3at DC 10-20 V Backup battery (15 minutes) AC 100-240 VAC **Physical**

IP20 Aluminium enclosure Color screen and rotary knob M10 and 3/8" Threads Accessories for V-lock battery-, rack- and wall mount.



Aurora

Single universe DMX/RDM transceiver with WiFi and Bluetooth



Aurora is the flexible unit able to transmit or receive one universe of DMX/RDM with several connectivity options. Using the intuitive color screen to change settings on the fly and move between universes, it is powerful enough for single universe transmissions as well as being a receiver packing the most advanced features







FEATURES

- Single universe CRMX Flex unit
- DMX/RDM, sACN and Art-Net 1-3
- 5 GHz WiFi and Bluetooth
- Configuration via app or front panel
- Compatible with CRMX and W-DMX G3/G4s

Luna

Single universe DMX transceiver with Bluetooth



Luna is the essential flex unit that gets the job done, being able to transmit DMX or receive DMX/RDM for one universe. Featuring the same reliable CRMX as all other devices from LumenRadio it also features Bluetooth connectivity in a compact and rugged format.



COGNITIVE COEXISTENCE



CONTACT

Headquarters



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- Single universe CRMX Flex unit
- DMX/RDM (in RX)
- Bluetooth

FEATURES

- Configuration via app
- Compatible with CRMX and W-DMX G3/G4s

lumenradio

With groundbreaking patented Cognitive Coexistence technology, our CRMX™ technology for wireless DMX offers unprecedented reliability and has become the de-facto wireless lighting control standard across the globe.

Sales office



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$MoonLite^{TM}$



MoonLite[™] is a brand new patent-pending wireless lighting control product with LumenRadio's updated award winning ultra-reliable CRMX technology combined with Bluetooth connectivity and a built-in battery.

By being a wireless DMX transmitter and receiver, MoonLite TM is truly the Swiss army knife of the wireless DMX world!

BUILT ON THE LATEST CRMX TIMOTWO TECHNOLOGY

MoonLite™ is built on LumenRadio's patented reliable CRMX technology and boosts new features such as:

Bluetooth connectivity

lumenradio |

- Control and configure your Moonlight through CRMX toolbox app
- Smarter disturbance detection technology, allowing for even more stable connectivity
- Significantly reduced RF footprint with dynamic transmissions

With built-in support for Bluetooth connectivity, MoonLiteTM enables tablet and phone based lighting control softwares to connect directly without the need for extra hardware.

MoonLite™ is a state-of-the-art transceiver; thanks to its small size, built-in battery and dual XLR connectors it is ideal for use at clubs, small stage events, corporate events, in theaters and temporary events where wireless DMX connectivity is needed.

MoonLite™ has the same reliable functionalities as all LumenRadio's CRMX products, but is updated with even smarter disturbance detection technology, allowing for even more stable connectivity - and it comes in a much smaller package.



- Built on the latest CRMX technology
- DMX transceiver (TX and RX)
- DC power
- Bluetooth connectivity
- Rechargeable battery included (10-12 hours in CRMX RX)
- Check battery status through app
- Color coded pairing indication
- Velcro fastening
- Firmware updates available over Bluetooth or XLR



What better way to control and configure your MoonLiteTM than from the palm of your hand? Using our new CRMX Toolbox app you can quickly identify your MoonliteTM, check battery status, conduct firmware updates, toggle between receiver and transmitter mode, change output power and much more. The new era of wireless DMX is finally here!



TECHNICAL SPECIFICATIONS

SUPPORTED PROTOCOLS

- USITT DMX512, DMX512(1990) & DMX512-A
- Bluetooth 5.0
- Compatible with all CRMX products

RF CHARACTERISTICS

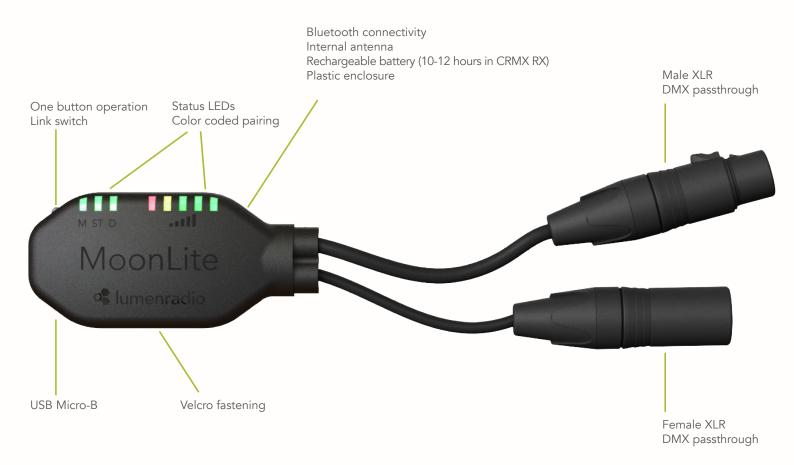
- Operational frequency range: 2402-2480 MHz
- Output power levels:15mW, 40mW, 100mW

CONNECTORS

- DMX: 2 XLR, 5-pin gold plated, female and male
- Antenna: Internal
- DC: USB Micro-B

POWER

• Low voltage input: 5VDC





LumenRadio's patented CRMX™ technology for wireless DMX is today the de-facto wireless lighting control standard in Motion picture lighting, Stage lighting and Architectural lighting industries.

CONTACT

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UTDOOR WIRELESS DMX

With groundbreaking patented Cognitive Coexistence technology, our CRMX™ technology for wireless DMX has become the de-facto wireless lighting control standard across the globe. Our Wireless DMX products offers unprecedented reliability and will give you the trust you need to control your fixtures wirelessly. Running on the unlicensed 2,4 GHz frequency all of our products can be used anywhere in the world.



CRMX Outdoor



CRMX OUTDOOR FLEX

IP67 RDM/ETHERNET FLEX PRODUCT

CRMX Outdoor Flex can be configured either as a transmitter, receiver or repeater for one full DMX/RDM universe of up to 512 channels. As a repeater, the Outdoor Flex can be used to build advanced network infrastructures over long distances while also acting as a receiver. The Outdoor Flex supports both wired and wireless RDM.

CRMX OUTDOOR RX

IP67 RDM RECEIVER

CRMX Outdoor RX is an outdoor receiver for one full DMX/RDM universe of up to 512 channels being transmitted by a CRMX transmitter.

KEY FEATURES

- DMX512-A and RDM support

- Up to 1000 meter link range
- 5 ms latency
- Automated Cognitive Coexistence
- IP67 classification
- Vandal proof casing

KEY FEATURES

- Up to 1000 meter link range
- Automated Cognitive Coexistence

- Vandal proof casing

CRMX Slim

CRMX Slim is a compact and cost efficient wireless unit rated for permanent indoor and outdoor installations. CRMX Slim products can easily be mounted inside lighting poles or anywhere space is limited. The integrated DMX to DALI converter makes it a perfect solution where DMX and DALI fixtures are mixed in the same installation.



CRMX SLIM RX RDM

IP65 RDM RECEIVER WITH DALL

CRMX Slim RX RDM supports not only a full 512 channel universe of DMX and RDM, but also DALI and DSI. The integrated DMX to DALI/DSI converter supports up to 64 DALI addresses or 16 DALI groups as well as DALI or DSI broadcast. It is easily configured over RDM or from SuperNova.

CRMX SLIM TX

IP65 DMX TRANSMITTER

The CRMX Slim TX supports one full DMX universe of up to 512 channels.

KEY FEATURES

- Up to 1000 meter link range
- 5 ms latency
- Automated Cognitive Coexistence
- Forward Error CorrectionIP65 classification
- Integrated DMX to DALI/DSI bridge

KEY FEATURES

- Support for DMX512-A
- Up to 1000 meter link range
- 5 ms latencyAutomated Cognitive Coexistence
- Forward Error Correction

CRMX Outdoor specifications	CRMX Outdoor Flex	CRMX Outdoor Receiver
Model code (Order code)	ON-RFX1 (800-4101)	ON-RRX1 (800-4001)
Supported protocols		
USITT DMX-512 (1986 & 1990) and DMX512-A	Yes	Yes
Art-Net I, II & 3, ETCNet 2 & 3, Strand Show- Net, Streaming ACN, Pathport, KiNet V1 & V2	Yes, input any protocol and output any protocol	No
RDM ANSI E1.20	Yes	Yes
Firmware upgrade	Ethernet	TIA/EIA-485
Works with CRMX SuperNova RDM controller	Yes	Yes
DMX interface		
Number of universes supported	1	1
Full DMX fidelity and frame integrity	Yes ¹	Yes
Error correction and packet recovery	Yes	Yes
Frame synchronization	Less than 0.01 ms	Less than 0.01 ms
End-to-end DMX latency Auto sensing of DMX frame rate and	Less than 5 ms ² Yes	Less than 5 ms Yes
frame size	res	res
Supported DMX frame rates	1 – 830 Hz³ / 0.8 – 7352 Hz	1 – 830 Hz³
Number of DMX channels supported	0 – 512	0 – 512
Loss of DMX input behavior	DMX driver output will go into high impedance state in receiving and repeating mode. Timeout after 1.25s in transmitting mode	DMX driver output will go into high impedance state
W-DMX™ G2/G3/G4/G4S Compatibility⁴	Yes, in receive mode	Yes
Power		
High voltage input	100-240VAC / 47-70Hz / 0.12A / 10W	100-240VAC / 47-70Hz / 0.12A / 10W
Transient protected power input	Yes	Yes
RF characteristics		
Modes of operation	Transmitter, Receiver and Repeater	Receiver
Automated Cognitive Coexistence	Yes	Yes
Dynamic adaptive frequency hopping	Yes	Yes
Recoverable Radio Packet Error Rate	30%	30%
Operational frequency range	2402-2480 MHz	2402-2480 MHz
RF output in high power mode	300 mW (25 dBm)⁵	300 mW (25 dBm) ⁵
RF output in normal power mode	100 mW (20 dBm)	100 mW (20 dBm)
RF output in low power mode	35 mW (15 dBm) or 10 mW (10 dBm)	35 mW (15 dBm) or 10 mW (10 dBm)
RF modulation	GFSK	GFSK
Sensitivity at 0.1% Packet Error Rate	-96 dBm	-96 dBm
Tested link range (High power mode using standard antennas in free line-of-sight)	Up to 1000 m	Up to 1000 m
Recovery time upon loss of radio link	Less than 1 s	Less than 1 s
Approvals		
FCC: 15.247&68 Class B; Canada ICES 003 CE; EN 301 489-1; EN 301 489-3; EN 300 328; SS-EN 61547:2009; EN 60 950; SRRC - China; ARIB STD-T66 - Japan	Yes	Yes
Environment		
Operating temperature range (ambient)	-20° C to +50° C -4° F to 122° F	-20° C to +50° C -4° F to 122° F
Humidity	Ingression protection, submerged down to 1 m	Ingression protection, submerged down to 1 m
Physical		
Enclosure	IP67 Vandal proof housing	IP67 Vandal proof housing
Dimensions (W x H x D) excluding antenna	201 x 244 x 78 mm 7.9" x 9.6" x 3"	201 x 244 x 78 mm 7.9" x 9.6" x 3"
Weight	1.6 kg, 3.5 lbs	1.6 kg, 3.5 lbs
Antenna connector	N female	N female
DMX connector	Pluggable terminal strip, Phoenix® MSTB 2.5	Pluggable terminal strip, Phoenix® MSTB 2.5
AC input	13AWG Pluggable terminal strip	13AWG Pluggable terminal strip
Supplied accessories	2 dBi N antenna	2 dBi N antenna

¹ Not in repeater mode	² Latency increased with repeate	er 3 Limited by the DMX512-A standard
⁴ Compatible with W-DMX ^{TI}	fransmitters on the 2.4 GHz band	⁵ Allowed in North America only

Model code (Order code)	OS-DTX1 (800-5101)	OS-RRX1 (800-5001)
Supported protocols		
USITT DMX-512 (1986 & 1990) and DMX512-A	Yes	Yes
RDM ANSI E1.20	No	Yes
Firmware upgrade	TIA/EIA-485	TIA/EIA-485
DALI (converted from DMX)	No	Yes, broadcast/16 groups/ 64 short addresses
Works with CRMX SuperNova RDM controller	No	Yes
DMX interface		
Number of universes supported	1	1
Full DMX fidelity and frame integrity	Yes	Yes
Error correction and packet recovery	Yes	Yes
Frame synchronization	Less than 0.01 ms	Less than 0.01 ms
End-to-end DMX latency Auto sensing of DMX frame rate and	Less than 5 ms Yes	Less than 5 ms Yes
frame size	165	les
Supported DMX frame rates	0,8 – 7352 Hz	1 – 830 Hz ¹
Number of DMX channels supported	0 – 512	0 – 512
Loss of DMX input behavior	Timeout after 1.25 s	DMX driver output will go into high impedance state
W-DMX [™] G2/G3/G4/G4S Compatibility ²	No	Yes
Power		
High voltage input	100-240VAC / 47-70Hz / 0.12A / 10W	100-240VAC / 47-70Hz / 0.12A / 10W
Transient protected power input	Yes	Yes
RF characteristics		
Modes of operation	Transmitter	Receiver
Automated Cognitive Coexistence	Yes Yes	Yes
Dynamic adaptive frequency hopping		
Recoverable Radio Packet Error Rate	30%	30%
Operational frequency range	2402-2480 MHz	2402-2480 MHz
RF output in high power mode	300 mW (25 dBm) ³	300 mW (25 dBm) ³
RF output in normal power mode	100 mW (20 dBm)	100 mW (20 dBm)
RF output in low power mode	35 mW (15dBm) or 10 mW (10 dBm)	35 mW (15 dBm) or 10 mW (10 dBm)
RF modulation	GFSK	GFSK
Sensitivity at 0.1% Packet Error Rate	-96 dBm	-96 dBm
Tested link range (High power mode using standard antennas in free line-of-sight)	Up to 1000 m	Up to 1000 m
Recovery time upon loss of radio link	N/A	Less than 1 s
Approvals		
FCC: 15.247&68 Class B; Canada ICES 003 CE; EN 301 489-1; EN 301 489-3; EN 300 328; SS-EN 61547:2009; EN 60 950; SRRC - China; ARIB STD-T66 - Japan	Yes	Yes
Environment		
Operating temperature range (ambient)	-20° C to +50° C -4° F to 122° F	-20° C to +50° C -4° F to 122° F
Humidity	Water jets protected	Water jets protected
Physical		
Enclosure	IP65 PC Plastic	IP65 PC Plastic
Dimensions (W x H x D) excluding antenna	90 x 174 x 40 mm	90 x 174 x 40 mm
Weight	3.5" x 6.8" x 1.6" 0.25 kg, 0.5 lbs	3.5" x 6.8" x 1.6" 0.25 kg, 0.5 lbs
	- 1.20 kg, 0.0 lb3	- 1.20 kg, 0.0 lb3
Connectors Antenna connector	N female	N female
DMX connector	Screwless terminal 0.08- 0.5 mm2 / 20-28AWG	Screwless terminal 0.08-0.5 mm2 / 20-
DALI connector	Screwless pluggable terminal 0.5-1.3 mm2 / 16-28AWG	28AWG Screwless pluggable terminal 0.5-1.3 mm2 / 16-28AWG
AC input	Screwless pluggable terminal 0.5-1.3 mm2 / 16-28AWG	Screwless pluggable terminal 0.5-1.3mm2 / 16-28AWG
Supplied accessories	2 dBi N antenna	2 dBi N antenna

CRMX Slim specifications

CEF© Sons (1) SRRC CUJUS ARIB STD-T66

All CRMX products are covered by the United States Patent No. 7,432,803.



¹ Limited by the DMX512-A standard ³ Allowed in North America only

 $^{^2}$ Compatible with W-DMX $^{\rm TM}$ transmitters on the 2.4 GHz band

Galileo



Single Universe DMX/RDM Transmitter or Receiver for Installation

Reliable wireless DMX - now in an install friendly form factor to enhances creativity and reduce installation costs in all permanent installation projects.

By using either DIN-rail cabinets or IP rated enclosures, Galileo is suitable for all Indoor and Outdoor installation projects where reliability is a requirement.

Based on our trusted CRMX technology, Galileo brings you all the advanced features such as Cognitive Coexistence, 5ms fixed latency, 128 bit encryption, error correction and much more.



SINGLE UNIVERSE

Supports one DMX/RDM universe of up to 512 channels with full refresh rate.



UNIQUE RELIABILITY

Patented technologies and Cognitive Coexistence for unique reliability.



BLUETOOTH

For easy and quick configuration via the CRMX Toolbox App.



FEATURES

- Single Universe Transmitter (TX) or Receiver (RX)
- Transmit CRMX or W-DMX G3/G4S (TX)
- Receive all CRMX and W-DMX modes (RX)
- DMX512-A and RDM support
- Bluetooth configuration via App
- Repeater in-app upgrade
- DIN-rail form factor
- RDM proxy (TX)

Multiple Galileo units can be combined to transmit several DMX universes, allowing easy system expansion. It is also compatible with all other CRMX and W-DMX products available on the market. Monitoring and configuration can easily be done as RDM is supported in all Galileo devices, as well as Bluetooth connectivity for configuration.



INSTALLATION MADE EASY

RDM

When using the RDM (Remote Device Management) available in Galileo you are able to configure and monitor fixtures and receiver devices, both wired and wireless, using any RDM controller.

At a later stage this can also be done with the CRMX Toolbox App using the Bluetooth connectivity.

Repeater

To make planning easier, a repeater functionality can be added to any Galileo RX device using an in-app upgrade. This allows for quick improvements of the signal to places where reception needs an extra boost.

The improved repeater functionality also allows for multiple repeater hops, providing coverage over vast distances.

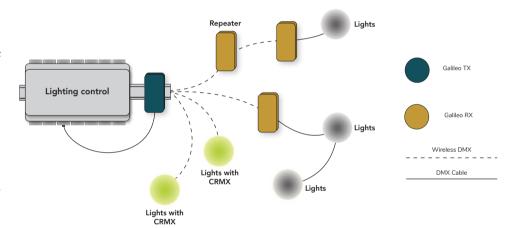
Linking Key

With user defined security keys the ability to clone transmitters is now at your fingertips. This feature allows for improved redundancy and reduces time for troubleshooting or repairs.

SYSTEM OVERVIEW

The network consists of one Galileo TX linked to an unlimited number of receivers; either fixtures from our OEM partners or LumenRadio products.

Use any lighting controller to provide Galileo TX with DMX/RDM data through the 3-pin pluggable connector. The radio link ranges hundreds of meters and is compatible with all CRMX and W-DMX devices on the market.















SPECIFICATIONS

Supported Protocols RX DMX / RDM

CRMX² and CRMX Classic W-DMX G3 / G4 / G4S / G5 Bluetooth 5.0

Supported Protocols TX

DMX / RDM CRMX Classic W-DMX G3 / G4S Bluetooth 5.0

RF Characteristics

2402-2480 MHz frequency 7 - 280 mW output power 5ms latency 128-bit encryption Forward Error Correction

Physical

DIN-rail 2 module width RP-SMA antenna connector 12-24 VDC/VAC pluggable screw terminal DMX/RDM 3 pin pluggable screw terminal

lumenradio

With groundbreaking patented Cognitive Coexistence technology, our CRMX $^{\text{TM}}$ technology for wireless DMX offers unprecedented reliability and has become the defacto wireless lighting control standard across the globe.

CONTACT

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Light it up like a PRO



ORB

Wireless DMX lighting control. Orb gives you cable-free control over your lighting set-up so no more running cables from your controller to your fixtures. Available as a transmitter or receiver – either way it's plug and play. Simply connect the transmitter to your controller and the receiver to your fixtures... and boom, instant wireless control! And you get the same rock-solid W-DMX performance which the lighting professionals love.



Rock out without getting tied down

What you get:

- Cable-free control over your lighting set-up
- A simple to use, plug and play product
- Rock-solid performance which won't let you down
- Wireless DMX tech loved by lighting pros

Orb is perfect if you're on the go and want to make lighting control that bit smoother









SPECIFICATIONS

Power supply AC1: 100-240 VAC +/- 10% 50/60 Hz

Power supply DC: 5 VDC +/- 10%

Max. power consumption: 1W
Self-healing fuse: Yes
IP rating: IP 20

Dimensions (W x H x D): 99 x 97 x 43 [mm]

Weight: 190 g
Antenna connector: RP-SMA
Operating temp. range: -20 to +55 °C
Storage temp. range: -30 to +80 °C

Humidity: 0 – 90% non-condensing Frequency range: 2402 – 2480 MHz (ISM band

Max. RF output power: 35mW
Supported protocols: DMX-512A
Supported RF protocols (TX): W-DMX G3

Supported RF protocols (RX): CRMX, CRMX², W-DMX G3, G4, G4S & G5

With external power supply only



2402 – 2480 MHz (ISM band) 35mW DMX-512A



Orb uses W-DMX technology - an incredibly reliable wireless alternative to the DMX cable. It is also completely compatible with other W-DMX and LumenRadio CRMX products so as your business grows, you don't have to replace everything all at once. Start with Orb and Stick and later use them together with more advanced products like LumenRadio's Aurora or Stardust.



Light it up like a PRO



STICK

Wireless DMX lighting control. Stick gives you cable-free control over your lighting set-up so no more running cables from your controller to your fixtures. Simply plug it straight into each fixture where the DMX cable would have gone and use it as a receiver together with the Orb transmitter. Handy and hassle-free plug-and-play technology. And you get the same rock-solid W-DMX performance which the lighting professionals love.



Rock out without getting tied down

What you get:

- Cable-free control over your lighting set-up
- A simple to use, plug and play product
- Rock-solid performance which won't let you down
- Wireless DMX tech loved by lighting pros

Stick is perfect if you're on the go and want to make lighting control that bit smoother









SPECIFICATIONS

Power supply DC: 5 VDC +/- 10% 0.5W

Max. power consumption: 0.5W Self-healing fuse: Yes IP rating: IP 20

Dimensions (W x H x D): 21 x 23 x 98 [mm]

Weight: 50g
Antenna: Built-in
Operating temp. range: -20 to +55 °C
Storage temp. range: -30 to +80 °C

Humidity: 0–90% non-condensing Frequency range: 2402–2480 MHz (ISM band)

Max. RF output power: 10 mW Supported protocols: DMX-512A

Supported RF protocols: CRMX, CRMX², W-DMX, G3, G4, G4S, G5



W-DMX - WIRELESS DMX

Stick uses W-DMX technology - an incredibly reliable wireless alternative to the DMX cable. It is also completely compatible with other W-DMX and LumenRadio CRMX products so as your business grows, you don't have to replace everything all at once. Start with Orb and Stick and later use them together with more advanced products like LumenRadio's Aurora or Stardust.