

ALPHA LITE USER MANUAL BOOK



WIRELESS MODULE

RX / TX

Precautions

[WARNING]

1

Do not open or disassemble the cover to reduce the risk of electric shock.

2

Please wear safety equipment such as safety helmet during work.

3

Be sure to fix the safety chain on the product when installing and moving.

4

Please install the signs below for people to bypass when install the product on high truss.

5

The work should be done under the direction of approved specialist who is trained in safety and mechanical installations.

Contents

Safety Information	1
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Fixture Information

Fixture Information	3
Fixture Exterior View	4
Technical Specifications	5

Fixture Installation

Equipment Connection	6
Power and DMX Connection	7
DMX Signal Link	8
DMX Signal Unlink	9
Status Indicator Instruction	10



Product name.

RX/TX

Alpha Lite has an agreement with Lumen Radio in Sweden to partner with technology and information. Lumen Radio Wireless DMX products offers unprecedented reliability and will give you the trust you need to control your fixtures wirelessly.

Based on advanced CRMX technology, the CRMX Nova TX brings you all the advanced features such as Automated Cognitive Coexistence, DMX fidelity, lowest latency in the industry at 5ms, 128 bit encryption and much more. CRMX Nova utilizes the international license free ISM band on 2.4GHz.

CRMX Nova TX is a DMX transmitter for one DMX universe of up to 512 channels at maximum refresh rate. Multiple CRMX TX units can be used together to transmit multiple DMX universes, allowing for easy system expansion.

CRMX Nova RX is a receiver for one DMX universe being transmitted by any CRMX transmitter. It supports one full DMX universe of up to 512 channels at maximum refresh rate.

Fixture Exterior View



DMX Port * If you insert the DMX input signal to the RX unit, an error may occur.

TX

- Data send-only (2 ports)
- Connect with a Consol

RX

- Data receive-only (2 ports)
- Connect with Lighting fixtures

Technical Specifications

International License	Free ISM band on 2.4GHz
Operational Frequency Range	2,402~2,408MHz
Wireless Range	Up to 1,000M
Signal Control	5-Pin DMX In and Out / Antenna: RP-SMA female
Individual Control	Link Button
Supported Protocol	DMX512 / RDM / DMX512 Wireless / RDM Wireless
Power Input Voltage	AC 100-240V / 50-60Hz
Power Consumption (W)	23
Ambient Temperature Operation (°C)	-20~45
Body Dimensions (mm/inch) (WHD)	173 x 135 x 50 / 6.8 x 5.3 x 2
Weight (kg/lbs)	0.8 / 1.7
Protection Class	IP20

Equipment Connection



Main Console



TX (Transmitter)



RX (Receiver)



RX (Receiver)



RX (Receiver)



Lighting fixture



Lighting fixture



Lighting fixture



Lighting fixture



Lighting fixture



Lighting fixture



Lighting fixture



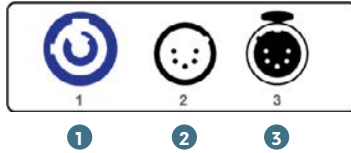
Lighting fixture



Lighting fixture

Power and DMX Connection

AC power at 100-240V, 50-60Hz



- ① POWER IN
- ② DMX INPUT (XLR Mounting-plugs)
- ③ DMX OUTPUT (XLR Mounting-sockets)



주의 사항

1. Observe the proper voltage range.
2. If power is supplied outside the range, noise may be generated from the SMPS.
3. If the operating voltage is out of the proper voltage range, SMPS function may be degraded or damaged.

DMX Port * If you insert the DMX input signal to the RX unit, an error may occur.

TX

- Data send-only (2 ports)
- Connect with a Console

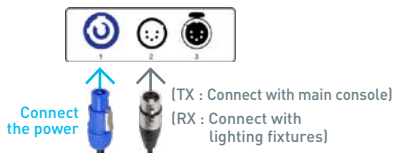
RX

- Data receive-only (2 ports)
- Connect with Lighting fixtures

DMX Signal Link

1

Connect an antenna

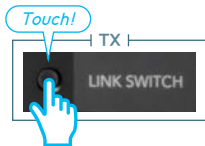


Power on
the transmitter(TX)
and receivers(RX)

2

3

Check all receivers
'RF LINK' indicators are off.
(If necessary, proceed with signal off process.)



When the receivers are ready to be linked,
press and hold the transmitter's
'LINK SWITCH' button for 1 second.
The transmitter will search for any unlinked receivers.

4

5

After the transmitter's 'RF LINK' indicator
flashes for 10 seconds,
normal connection is initiated.



When all receivers 'RF LINK' indicators are on,
the signal connection is complete.

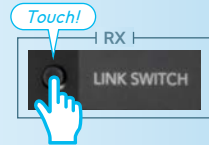
6

DMX Signal Unlink

One receiver unlink (RX control)

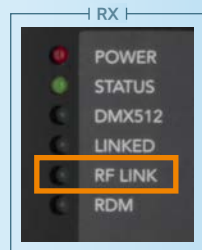
1

Press and hold one receiver's 'LINK SWITCH' button for more than 3 seconds to unlink from the transmitter.



2

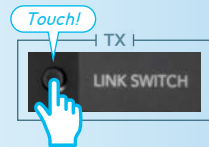
The receiver's 'RF LINK' indicator will off, the connection with the transmitter is disconnected.



All receivers unlink (TX control)

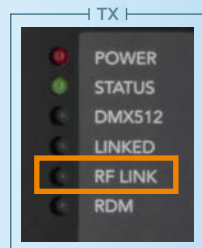
1

Press and hold one transmitter's 'LINK SWITCH' button for more than 3 seconds to unlink all receivers.

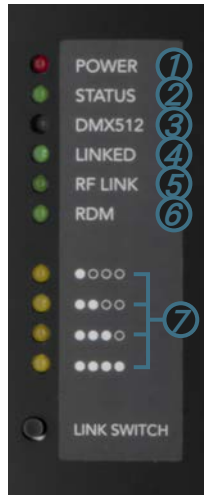


2

The transmitter's 'RF LINK' indicator will off, the connection with all receivers is disconnected.



Status Indicator Instruction



-
- 1 POWER** It turns on when the power is on.
-
- 2 STATUS** The length of the flash indicates the signal connection status. (If there is no problem, it turns on.)
-
- 3 DMX512** It turns on when the wired DMX512 signal is connected.
-
- 4 LINKED** It turns on when the signals of the transmitter and receiver are connected to each other.
-
- 5 RF LINK** Indicates the signal connection status of the transmitter and receiver. (It flashes slowly as the receiver moves away from the transmitter's signal range.)
-
- 6 RDM** It turns on when the RDM operation other than main console operation.
-
- 7 Indicates the signal connection strength between RX and TX.**
- ○ ○ ○ : 20%
 - ● ○ ○ : 40%
 - ● ● ○ : 60%
 - ● ● ● : 80%
-

Status Indicator Instruction



TX (Transmitter) - '○ STATUS'



Flashing (Off 100ms / on 100ms) : Linking with available RX



Flashing (Off 200ms / on 200ms) : Unlinking all currently linked RX



Flashing (Off 900ms / on 100ms) : Active radio link, no DMX present



Constant on : Active radio link, DMX data present

RX (Receiver) - '○ STATUS'



Constant off : Not linked to any TX



Flashing (Off 100ms / on 100ms) : Linked to a TX, but no active radio link



Flashing (Off 900ms / on 100ms) : Active radio link, no DMX present



Constant on : Active radio link, DMX data present



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