

Professional strength Wireless DMX Distribution with the reliability, range, flexibility and ease of use demanded by today's performances.



Interactive Technologies' RadioDMX wireless DMX distribution system represents the state-of-the-art in wireless control of professional stage lighting equipment. Using the RadioDMX system, lighting control networks can be seamlessly transmitted through the air. Such "cableless" transmission allows for the operation of lighting instruments in new and exciting locations and makes getting control signals to impractical or inconvenient places a snap.

Using the latest in Digital Spread Spectrum communications technology, the Plug-and-Play RadioDMX system provides wirelessly transmitted DMX signals with exceptional range, speed and worry-free operation. Utilizing an exceptionally fast 2.4 GHz transceiver and the power of multiple processors, RadioDMX produces the smoothest possible fades and great looking moving light effects.

RadioDMX offers many practical features for professional stage lighting and automation projects.

RadioDMX transmits and receives all 512 dimmers in a DMX data link. Multiple receivers may be placed in different locations to receive DMX signals from a single transmitter. Up to 16 transmitters, each broadcasting a different DMX signal, can be used in the same area without interfering with each other. This feature allows wireless control of as many as 8192 dimmers.

RadioDMX can provide similar reliability and performance as hard-wired DMX data links, while also allowing lighting instruments to be controlled remotely without direct data cable connections. RadioDMX transmitters broadcast an airborne DMX data link to RadioDMX receivers. The receivers then recreate the transmitted data link, allowing multiple fixtures to be operated at a remote location.

The RadioDMX system is fully Plug-and-Play, requiring minimal (if any) setup by the end user. The easy to use LCD menu features full diagnostic status messages and onscreen help. RadioDMX systems are ready to operate immediately out of the box with the necessary certifications for usage nearly world-wide.

Features:

- 2.4 GHz Frequency Band
- Does not interfere with wireless microphones or two-way radios
- Range over 4 miles (6km) with optional antennas
- Unlimited receivers for each transmitter
- Use up to 16 transmitters for multiple DMX universes
- Transmit up to 8192 channels
- User selectable Transmit and Receive modes
- Plug-and-Play operation
- FCC and ETS compliance for worldwide use

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Professional Entertainment and Architectural Lighting Control Products

For additional product information and support:
www.interactive-online.com

Ordering Information:

RadioDMX

RD-2400 RadioDMX Transceiver

RadioDMX Package

RD-2400-INT RadioDMX Package
(RadioDMX, Power Supply & Antenna)

Accessories

RD-P30 RadioDMX Universal Input Power Supply
RD-P12D RadioDMX 12VDC Battery/Mobile Power Supply
RD-RMS RadioDMX Rack Mounting Shelf
RD-NEMA4X RadioDMX NEMA 4X Weathertight Enclosure
RD-ATA2 RadioDMX Custom ATA Road Case

Antennas

R24-A200-S 2.4 GHz 2dB Right-Angle Whip Antenna (attach to back of unit or use 'SS' type cable)
R24-A210-N 2.4 GHz 9dB Omnidirectional Antenna (requires 'SN' type cable)
R24-A220-N 2.4 GHz 15dB Yagi Directional Antenna (requires 'SN' type cable)
R24-A230-N 2.4 GHz 9dB Corner Reflector Antenna (requires 'SN' type cable)

Extension Cables

R24-Cxx-SN 2.4 GHz Coax Patch Cable (Rev-SMA-Male to N-Male)*
R24-Cxx-SS 2.4 GHz Coax Patch Cable (Rev-SMA-Male to Rev-SMA-Female)*

*Note: Replace 'xx' with length in feet

*Note: Max. recommended length is 5 feet

Specifications:

Transmitter Mode

DMX-512 Protocol:

Transmits all 512 dimmers in DMX data link
Any contiguous subset of dimmers may be chosen
Expansion to 8192 dimmers possible with 16 transmitters

Lightwave Research Protocol:

Up to 32 fixtures may be transmitted
Supports Cyberlight®, Intellabeam®, Emulator® and Trackspot®
Expansion to 512 fixtures possible with 16 transmitters

Automatically detects protocol being used

Single receiver selection for point-to-point mode

Broadcast selection for multipoint mode

16 different RadioDMX networks supported
(allows multiple systems to be used in same area)

Transmitted update rate is data dependant, typically 40/second

Active sensing of receivers at the transmitting unit

Remote transmitter enable

Receiver Mode

Receive DMX data starting at any dimmer from 1 to 512

Select 16 different RadioDMX networks from which to receive data

255 unique receiver IDs for identification at transmitter

Advanced error detection avoids false outputs

Automatically detects protocol being transmitted

Selectable loss-of-signal actions:

Hold last scene Stop output
Blackout Yield to external source

Front Panel

Large 16 character backlit LCD display

Three button menu interface

Automatic context-sensitive onscreen help

Dual-color Status LED showing overall condition

Automatic backlight shutoff for dark operation

Rear Panel

5-pin XLR DMX input and output connectors

Reverse polarity SMA connector for antenna or extension cable

LCD display contrast adjustment

Power switch

RF Transceiver

Worldwide license-free operation

Complies with FCC Part 15.247 and ETS 300-328

RF Frequency Range:

Global: 2401 – 2480 MHz (US/Europe)
France: 2448 – 2478 MHz
Spain: 2445 – 2475 MHz
Japan: 2475 – 2495 MHz
Canada: 2452 – 2478 MHz

Up to 80 frequency-hopping channels

Effective distance:

3500' (1070m) line-of-sight outdoors
500' (150m) to 1500' (450m) indoors and/or through obstacles
Greater than 4 miles (6km) with optional high-gain antennas

Selectable 10mW, 100mW transmit power

-95 dBm receiver sensitivity

Point-to-point and multipoint topologies supported

Steerable (diversity) antenna mode

Power Requirements

9 VDC @ 200mA

12-24 VDC with optional mobile power supply

Class 2 Input

Dimensions

Length: 8.0" (203mm)
Width: 6.1" (155mm)
Height: 2.0" (51mm)
Weight: 34oz. (972g)

Environmental

Operating Temperature -22°F to 158°F (-30°C to 70°C)

0 to 95% humidity, non-condensing

Note: In order to maintain the highest possible product quality, Interactive Technologies reserves the right to change specifications without notice. Some of the available functions may be altered over the life of the product and functions not described here may be added.

