



RadioGate Solid (DMX)

Wireless 2.4 GHz DMX transceiver

These RadioGate devices are designed to transfer DMX data wirelessly in intellectual lighting control systems through Sundrax's proprietary BeDMX technology. BeDMX is hi-end technology for transmission between devices in 2.4 GHz ISM band with bidirectional communication and Adaptive Frequency Hopping (AFH) which guarantees near 100% resistance to radio frequency interference by a hop rate of 1600 hops per second. The device is equipped with 1 or 2 coaxial RP-SMA RF connectors for antenna connection configurable to work on reception or transmission. Available as IP65 modification (RadioGate Arma) and with integrated Ethernet converter (RadioGate Plus Solid).



Advantages

- Designed for touring/rental companies
- Simple configuration
- 1 button programming
- DC or AC power source
- Full galvanic isolation
- Support DMX512, RDM
- Bidirectional communication
- Resistance to interference
- Up to 1500m transmission range
- Neutrik® XLR metal connectors
- Lost data replacement



DMX Bi-Direct



Supports RDM



UltraStart



Galvanically Isolated Ports



Natural Heat Convection



Highest Ingress Protection



Back-Up Transmitter

Application

- Applied when wired DMX/ArtNet/sACN transmission is hindered or impossible
- Transmission to moving parts
- Transmission from lighting console to stage in open spaces where lighting cables may be trampled down
- Transmission to heritage assets and landmarked buildings
- Transmission between roofs of detached buildings
- Transmission between parts of moveable bridges
- Transmission between moveable and long-distance street constructions

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Version: 4.00
15 Jul 2020

Technical Specifications

Mechanical

Housing: solid case

Material: metal

Dimensions, mm: 115(D) x 55(H) x 90(W)

Mass: 0.85 kg

Mounting: surface, truss

Power & Electrical

Power supply: ~90-250 VAC, 50/60 Hz or 12-24 VDC

Max current consumption: 0.1 A

Mains Fuse: 0.5 A (VAC modification)

Environmental

Operating Temperature: 0...+60°C

Storage Temperature: -50...+70°C

Operating Relative Humidity (max): 95%

IP Rating: IP 44

Certification: CE, RoHS

Warranty: 36 month (return to base)

Control / Data Connections

Supported protocols: DMX512, RDM

DMX data refresh rate: 44 Hz

Transmission range (standard antenna): 100 m

Communication protocol: Bluetooth 5.0, BeDMX

RF band: 2.4 GHz

Inputs / Outputs

Wireless channels: 1

DMX ports: 2 isolated (depends on modification)

Connectors: 2 XLR(M), 2 XLR(F) (5 pins)

Configuration / Indication

Setup: buttons

Indication: LEDs for DMX activity

Package Contents

RadioGate Solid

2.4 Ghz Antenna

Product Line

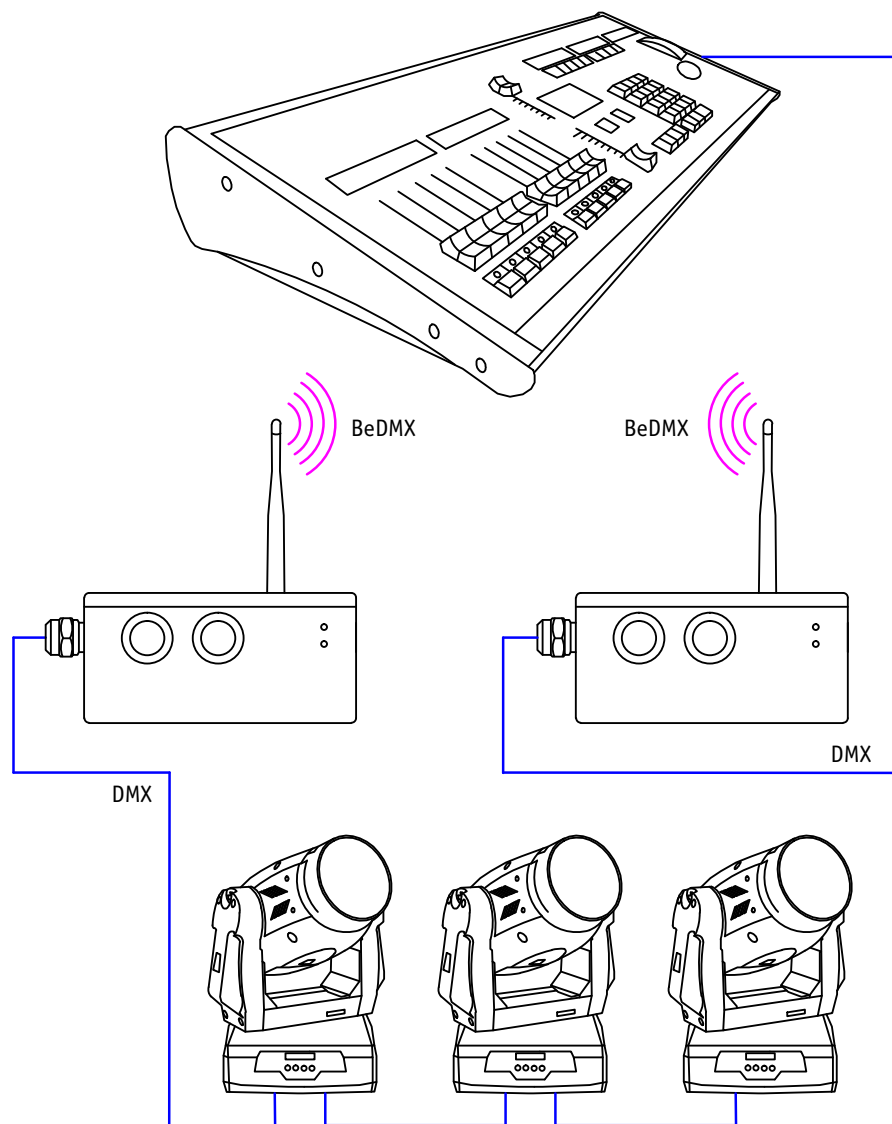
Name	Modification	Product code
RadioGate Solid	1 DMX port (5-pin), 1 BeDMX port, 100-250VAC (512ch)	RGS-5-DC-AC
	1 DMX port (5-pin), 1 BeDMX port, 12-24VDC (512ch)	RGS-5-DC-DC
	1 DMX port (3-pin), 1 BeDMX port, 100-250VAC (512ch)	RGS-3-DC-AC
	1 DMX port (3-pin), 1 BeDMX port, 12-24VDC (512ch)	RGS-3-DC-DC

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Connection Scheme



Accessories

Name

Truss mounting kit (2-port device)
2.4GHz Long Range BeDMX antenna
Antenna Cable 5m
Antenna Cable 10m

Product code

MCA-1-113
DMX-ACC-BLT-024
DMX-ACC-ANT-0500
DMX-ACC-ANT-1000