



RadioGate Arma

Waterproof DMX wireless transceiver + DMX-Ethernet converter

RadioGate Arma provides non-stop bidirectional DMX communication (up to 4 universes) between devices in 2.4 GHz ISM with RDM feedback and integrated bidirectional DMX/ArtNet/sACN converter. Maximum distance is up to 1500 metres with directional antennas. Adaptive Frequency Hopping (AFH) helps to avoid disturbance from any other wireless equipment. RadioGate is versatile transmitter + receiver, with one-button configuration. Packed into waterproof metal enclosure (IP65) specifically crafted for outdoor use, with galvanically isolated ports, RadioGate Arma is a smart choice when wired DMX transmission is hindered. Available as IP44 modification for indoor application (RadioGate Solid).

Advantages

- 2 or 4 DMX universes depending on modification
- Maximum reliability of connection based on Bluetooth 5.0 protocol (beDMX)
- Communication range up to 200 m (regular antenna) and 1500 m (directional antenna)
- Maximum resistance to interference through Adaptive Frequency Hopping (AFH)
- One-button programming, simple configuration
- Ethernet port and integrated DMX/ArtNet/sACN converter
- Custom routing and merging of DMX streams, setup via web interface
- Full RDM support
- Diagnostics of DMX transmission quality
- LED indication of communication status on transmitter
- All devices are cross functional transmitter+receiver
- Natural heat convection, no fans or coolers, no vent slots – full protection from dust and smoke increases product lifetime
- Effective moulded thick metal case and metal buttons provide mechanical reliability
- Full galvanic isolation of all ports
- Maximum surge protection – power supply optimized for voltage from 100 to 300 V
- Optional 9-30V battery support
- Optional PoE support



Power over Ethernet



DMX Bi-Direct



Supports RDM



UltraStart



Galvanic Isolated Ports



Natural Heat Convection



Highest Ingress Protection



Back-Up Transmitter

Application

- Bidirectional outdoor DMX/ArtNet/sACN transmission including communication through local network
- Transmission when wired DMX/ArtNet/sACN transmission is hindered or impossible
- 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 architectural lighting installations
- Transmission to moving objects and moveable bridges

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Version: 4.00
19 Aug 2019

Technical Specifications

Mechanical

Housing: solid case

Material: metal

Dimensions (with cable glands and buttons), mm:

203.5(D) x 51(H) x 141.5(W)

Dimensions (without cable glands and buttons), mm:

172.2(D) x 51(H) x 120.2(W)

Mass: 1 kg

Mounting: Surface, Truss

Power & Electrical

Input Voltage: ~100-250 V, 50/60 Hz;

PoE 802.3af mode A, B

Input Power (max): 5 W

Environmental

Operating Temperature: -40...+70°C

Storage Temperature: -50...+80°C

Operating Relative Humidity (max): 100%

IP Rating: IP 65, for use in any weather conditions

Certification: CE, RoHS

Warranty: 36 Month

Control / Data Connections

Supported protocols: DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2 RTTrPL sACN draft, release

Data refresh rate: 44 Hz

Transmission range (standard antenna): 200m

Communication protocol: Bluetooth 5.0

RF band: 2.4 GHz

Inputs / Outputs

DMX ports: 2 or 4

Wireless channels: 2

Ethernet ports: 1

Configuration / Indication

Setup: buttons, web interface

Indication: LED for Ethernet, DMX and beDMX

Package Contents

RadioGate Arma

2 antennas 2.4 GHz

Product Line

Name	Modification	Product code
RadioGate Arma	2 DMX inputs / outputs, 1 Ethernet port, 2 DMX universes	RGA-0-2D2C-AC
	4 DMX inputs / outputs, 1 Ethernet port, 4 DMX universes	RGA-0-4D2C-AC



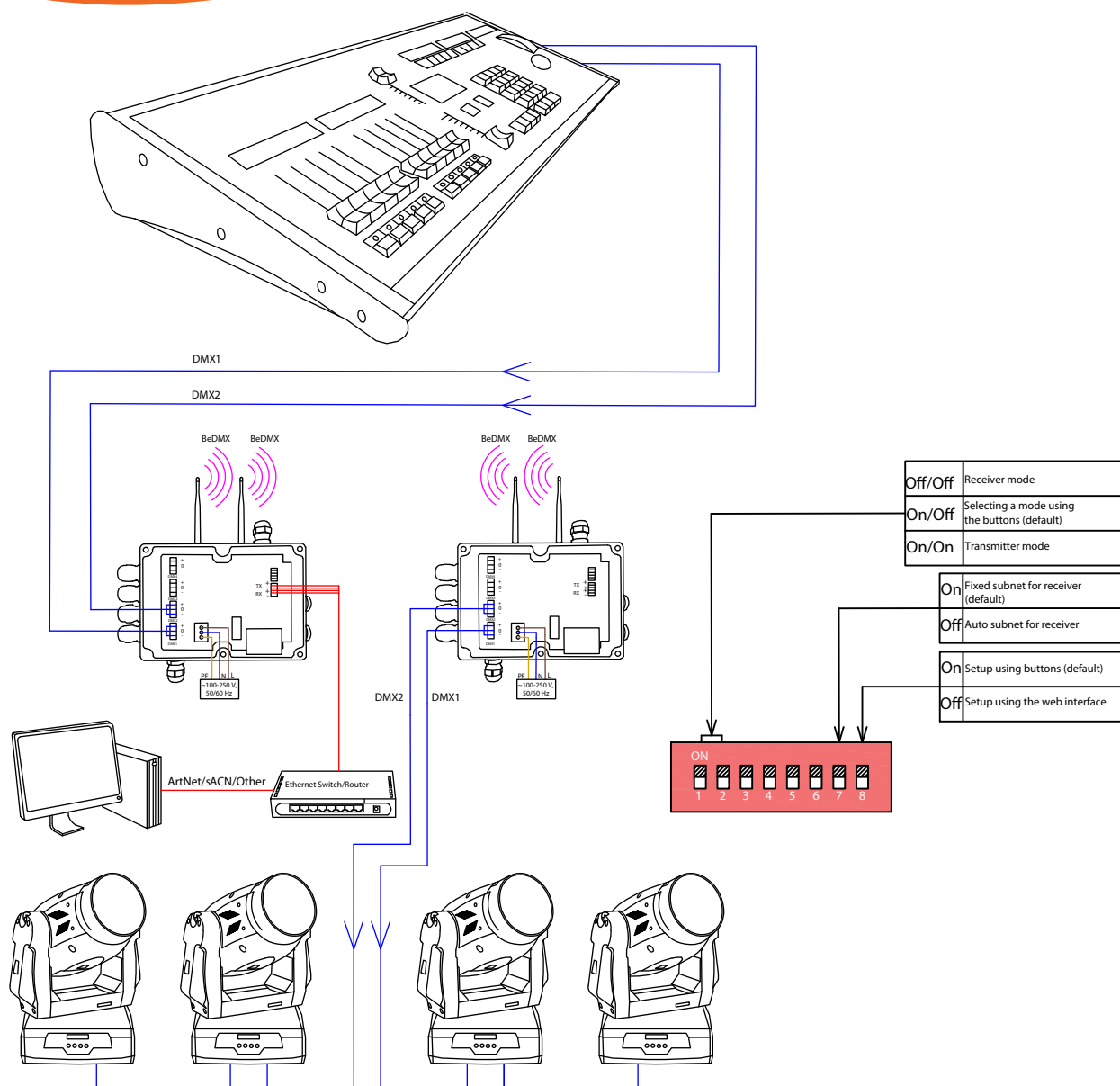
+ 44 (0) 208 991 33 19
office@sundrax.com
www.sundrax.com

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Connection Scheme



Accessories

Name

Truss mounting kit (Solid, Arma)
2 dbi 2.4GHz antenna
5 dbi 2.4GHz antenna
Antenna Cable 5m

Product code

DMX-MCA-1-113
DMX-ACC-ANT-2
DMX-ACC-ANT-5
DMX-ACC-ANT-050