



RadioGate Arma

Wireless 2.4 GHz DMX transceiver

RadioGate Arma provides non-stop bidirectional DMX communication between devices in 2.4 GHz ISM with RDM feedback. 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 also with Ethernet (RadioGate Plus Arma) or as IP44 modification for indoor application (RadioGate Solid)



Advantages

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

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

DC 12-24V modification



DMX Bi-Direct



Supports RDM



UltraStart



Galvanically Isolated Ports



Natural Heat Convection



Highest Ingress Protection



Back-Up Transmitter

Application

Bidirectional outdoor DMX transmission

Transmission when wired DMX 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
15 Jul 2020

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: 1.0kg

Mounting: Surface, Truss

Power & Electrical

Input Voltage: ~100-250 V, 50/60 Hz
or DC 12-24V

Max current consumption: 0.1A

Environmental

Operating Temperature: -40...+70°C

Storage Temperature: -50...+70°C

Operating Relative Humidity (max): 100%

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

Certification: CE, RoHS

Warranty: 36 month (return to base)

Control / Data Connections

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

DMX data refresh rate: 44 Hz

Transmission range: 200 m (regular antenna), 1500 m (directional antenna)

Communication protocol: beDMX

RF band: 2.4 GHz

Inputs / Outputs

Wireless channels: 1

DMX ports: 1

DMX connectors: 15EDGV terminal blocks

Configuration / Indication

Setup: buttons

Indication: LEDs for Ethernet, DMX and beDMX activity

Package Contents

RadioGate Arma

2.4GHz antenna(s)

Product Line

Name	Modification	Product code
RadioGate Arma	1 DMX port (5-pin), 1 BeDMX port, 100-250VAC (512ch) 1 DMX port (5-pin), 1 BeDMX port, 12-24VDC (512ch)	RGA-0-DC-AC RGA-0-DC-DC



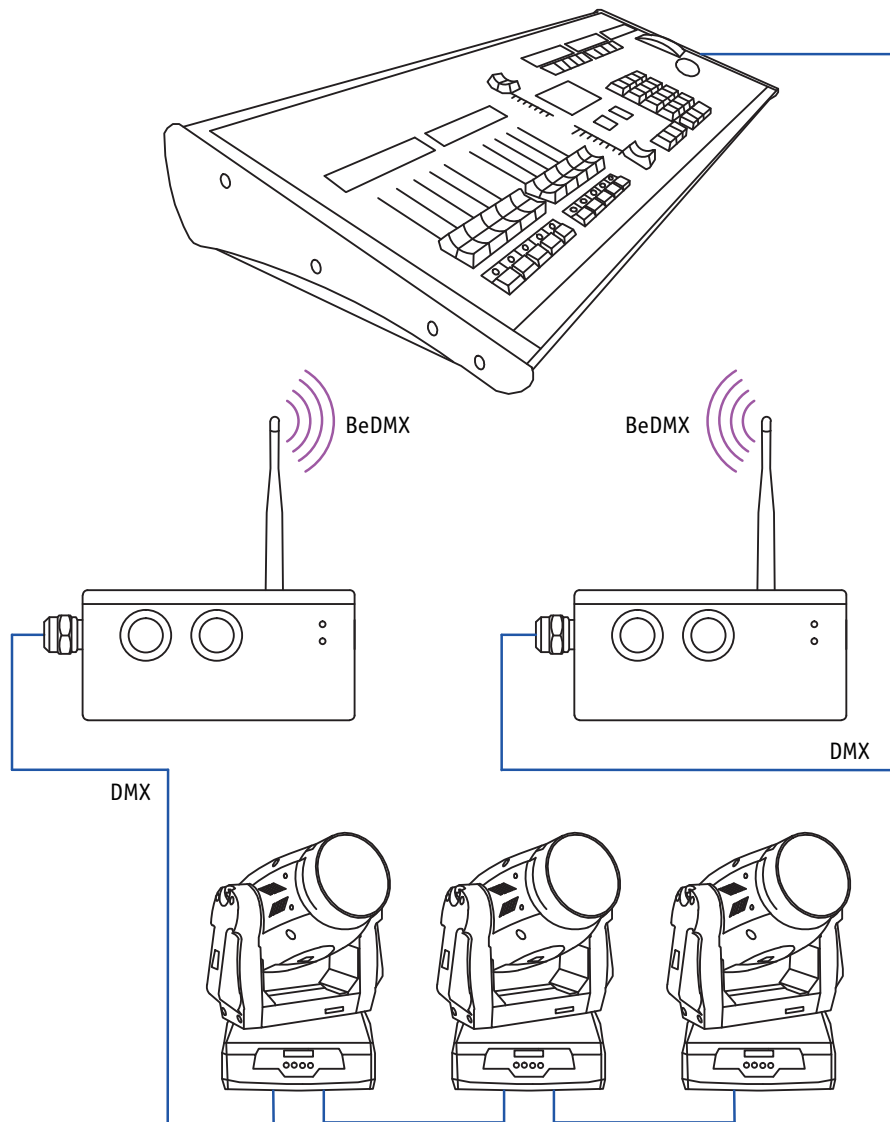
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Connection Scheme



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