MIRA RGBW(A)
SPECIFICATION SHEETS

LED | Energy Saver | ♻ | IP66 | CLASS II | CE | RoHS | FC | RDM MONITORING | DMX RDM | 5 YEARS WARRANTY

EXPLANATION

MIRA RGBW(A) Series is a powerful and outdoor rated inground with high lumen output and excellent color consistency. MIRA RGBW(A) are excellent solution for accent lighting, spot lighting, wall washing, façade lighting applications and widely used in illuminating historical places, monuments in parks and other areas.

MIRA RGBW(A) Series is produced in 4 pcs colored LED. MIRA RGBW(A) Series has a sturdy die cast aluminium body. It works at 5V DC to ensure connections over long distances. MIRA RGBW(A) Series provides easy setup with standard DMX 512 without special or complex communication protocols.

• MIRA RGBW(A) provides compatible communication with other fixtures using standard DMX 512 without requiring any other special communication protocol or production ID.

• MIRA RGBW(A) ingrounds enable flexible application using very long starter and jumper cables, since they operate in 5V DC universal voltage range.

• MIRA RGBW(A) Series work through Madrix® or Enttec software and hardware in coordination. Pixel mapping can be made easily by selecting fixtures in Madrix® or Enttec library.

• IP66 class MIRA RGBW(A), are designed to meet the challenging equirements of exterior applications with their robust and durable structure. It is resistant to shock, vibration and other harsh conditions through die cast aluminium body and 3mm PMMA cover.

• Input and output is delivered through a cable and requires an extra junction box. This junction allows cable connection between distances. Jumper cables can be determined according to the desired length of cable.

• MIRA RGBW(A) Series is produced in grey color as standard, and is also available in different colors in RAL code upon request.

SPECIFICATIONS

Output	RGBW(A) 8W
Light Source	4 High Power Colored LEDs
Lumen Maintenance	60.000 > hours L70 @ 50° C (full output)
Color Range	16.7 Million additive RGBW colors, white CCT 6500K
Ra(CRI)	RGBW(A) Full on ≥70CRI
Beam Angle	25°- 45° (3 in1 full lens)
Luminous Flux	445 lm
Efficacy (lm/W)	56 lm/W

Control & Programming

Color Resolution:	4 x 8-bit (Gamma correction)
Addressing:	RDM (Group of Remote Addressable Systems)
PWM Frequency:	1000Hz flicker free dimming
DMX / DALI Compliance:	USITT DMX512-1990
RDM Compliance:	ANSI/ESTA E1.20-2010

Electrical

Operating Voltage:	5V DC
Power Consumption:	8W
Connections:	Wire and Connector

Physical

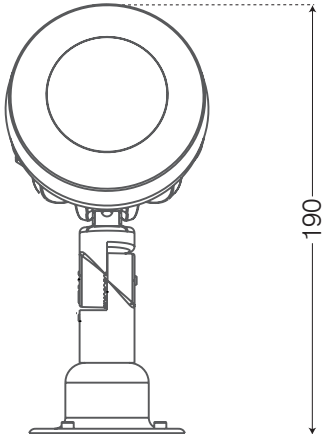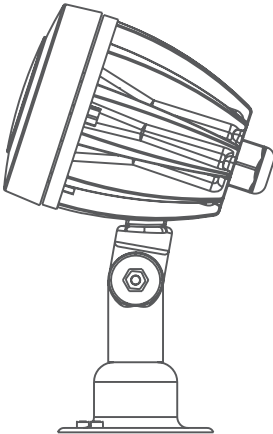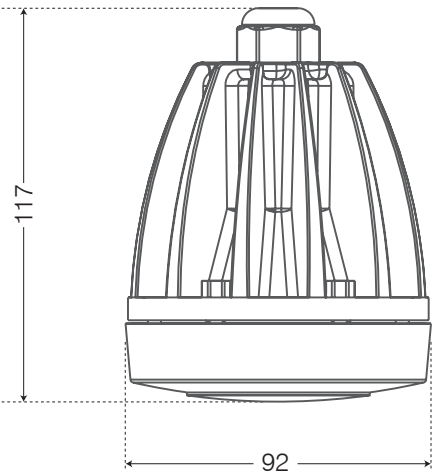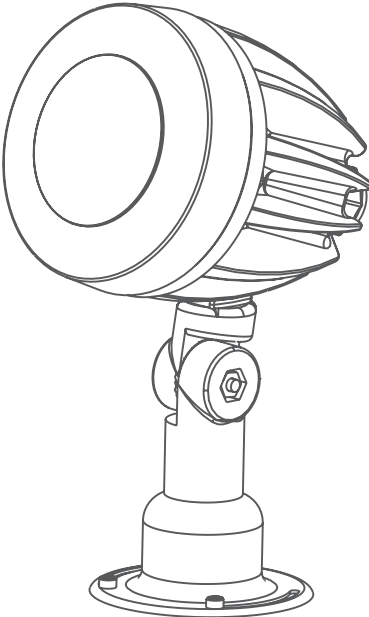|	
Housing:	Die cast
Front Material:	PMMA
Installation Brackets:	Plastic and stainless steel
Gasket:	Silicon
Color:	Grey (standard) or Custom Any RAL (optional)

Measurements:

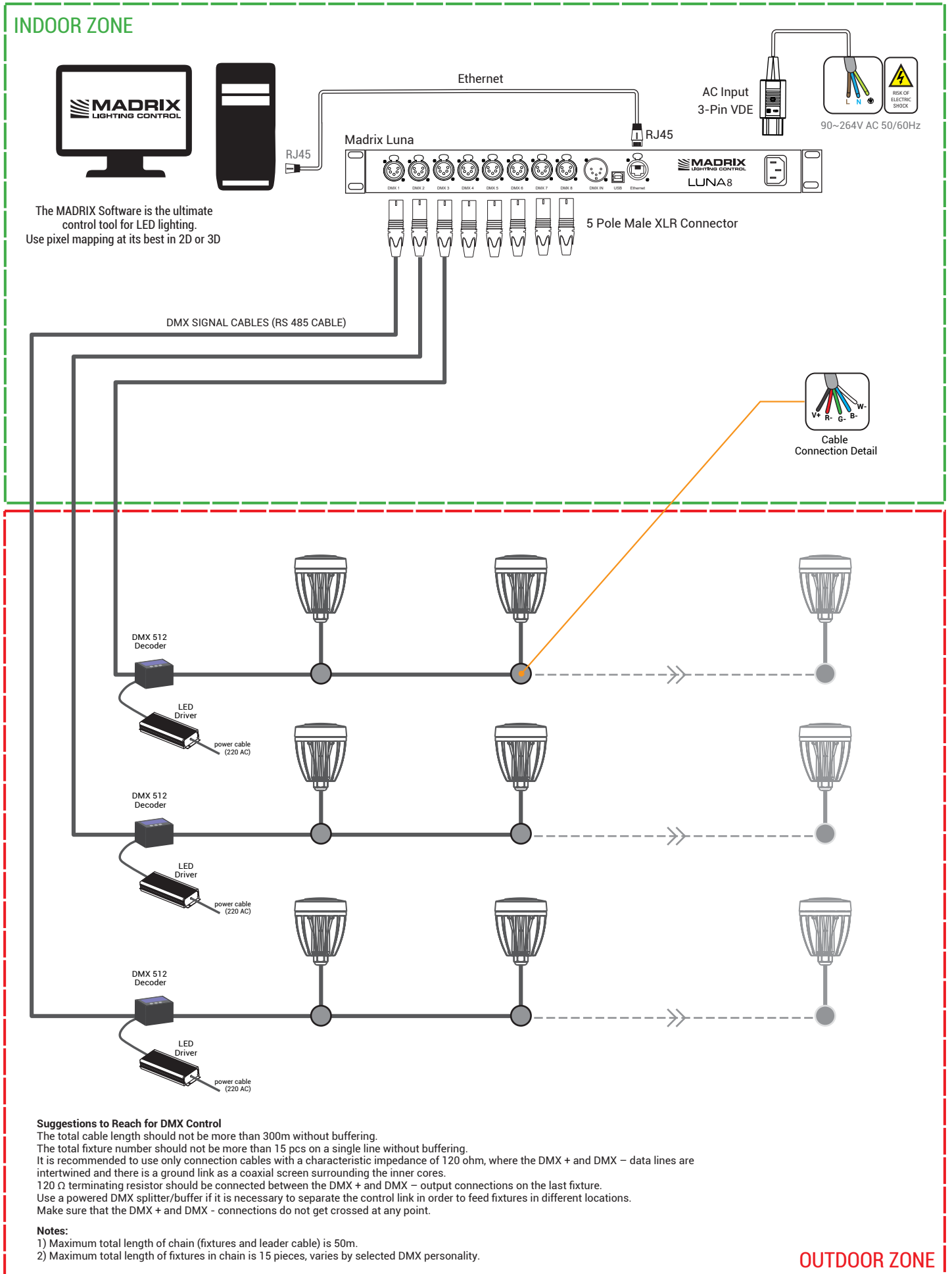|	
Dimensions: (height x width x depth)	190 x 92 x 117 mm
Net weight:	0,75 kg

Environmental

Storage Temperature:	-40°C / +85°C
Ambient Temperature:	-25°C / +50°C
Operating Temperature:	-25°C / +65°C
Cooling:	Cooling by free air convection
Ingress Protection Rating:	IP66

Certificate:	EN 60598, CE

Warranty:	5-year Limited Warranty

117

92

190

INDOOR ZONE

Ethernet

AC Input
3-Pin VDE

L   N

RISK OF
ELECTRIC
SHOCK

90~264V AC 50/60Hz

RJ45

RJ45

Madrix Luna

MADRIX
LIGHTING CONTROL

LUNA8

DMX 1 DMX 2 DMX 3 DMX 4 DMX 5 DMX 6 DMX 7 DMX 8   DMX IN   USB   Ethernet

The MADRIX Software is the ultimate
control tool for LED lighting.
Use pixel mapping at its best in 2D or 3D

5 Pole Male XLR Connector

DMX SIGNAL CABLES (RS 485 CABLE)

V+   R-   G-   B-   W-

Cable
Connection Detail

DMX 512
Decoder

LED
Driver

power cable
(220 AC)

DMX 512
Decoder

LED
Driver

power cable
(220 AC)

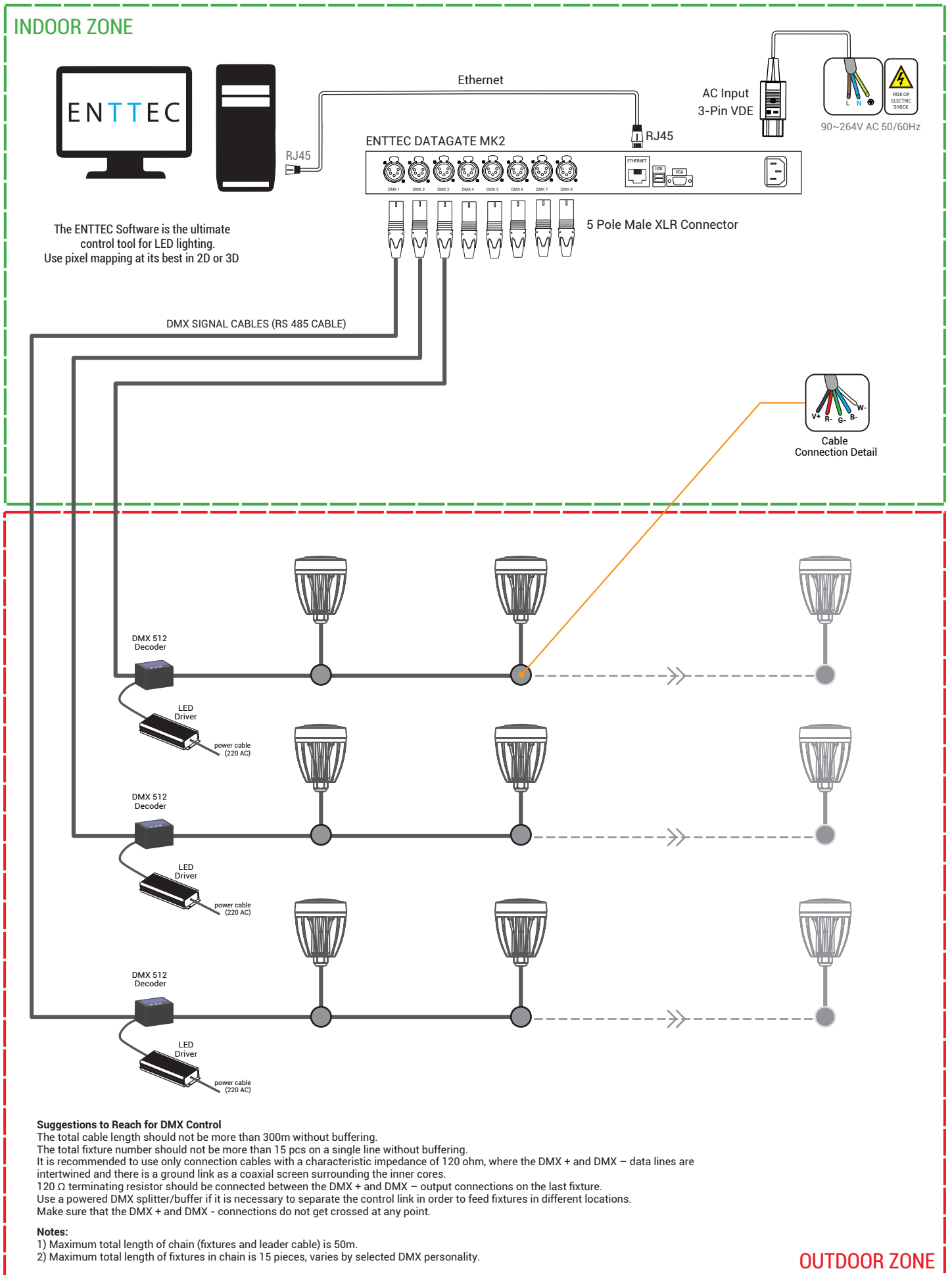DMX 512
Decoder

LED
Driver

power cable
(220 AC)

Suggestions to Reach for DMX Control
The total cable length should not be more than 300m without buffering.
The total fixture number should not be more than 15 pcs on a single line without buffering.
It is recommended to use only connection cables with a characteristic impedance of 120 ohm, where the DMX + and DMX − data lines are
intertwined and there is a ground link as a coaxial screen surrounding the inner cores.
120 Ω terminating resistor should be connected between the DMX + and DMX − output connections on the last fixture.
Use a powered DMX splitter/buffer if it is necessary to separate the control link in order to feed fixtures in different locations.
Make sure that the DMX + and DMX - connections do not get crossed at any point.

Notes:
1) Maximum total length of chain (fixtures and leader cable) is 50m.
2) Maximum total length of fixtures in chain is 15 pieces, varies by selected DMX personality.

OUTDOOR ZONE

INDOOR ZONE

ENTTEC

The ENTTEC Software is the ultimate
control tool for LED lighting.
Use pixel mapping at its best in 2D or 3D

Ethernet

RJ45

AC Input
3-Pin VDE

RJ45

RISK OF
ELECTRIC
SHOCK

90~264V AC 50/60Hz

ENTTEC DATAGATE MK2

DMX 1 DMX 2 DMX 3 DMX 4 DMX 5 DMX 6 DMX 7 DMX 8

ETHERNET USB VGA

5 Pole Male XLR Connector

DMX SIGNAL CABLES (RS 485 CABLE)

V+ R- G- B- W-

Cable
Connection Detail

OUTDOOR ZONE

DMX 512
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LED
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power cable
(220 AC)

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RDM EXPLANATION

MIRA RGBW(A)
complies with the RDM Monitoring Command System. In order to use RDM Monitoring System, a compatible controller is required depending on the installation.

Through DMX data connection, it is possible to control the fixture's settings, send commands and receive or monitor the fixture's data.

DEVICE MANAGEMENT

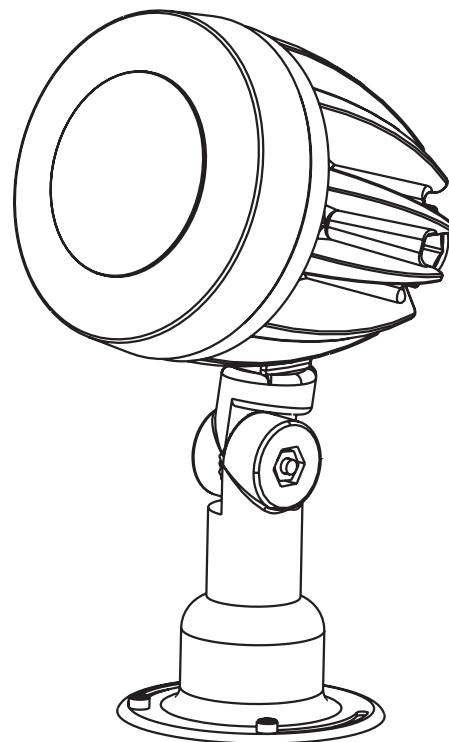|	GET	SET
Device Info	√	√
DMX Start Address	√	√
Identify Device	√	√
Device Model Description	√	
Device Label	√	√
Software Version Label	√	
DMX Personality	√	√
DMX Personality Description	√	
Device Power Cycles	√	
Status ID Description	√	
Supported Parameters	√	
Parameter Description	√	

∗ The command names and command functions used on different RDM controllers may vary.

∗ Incompatible RDM controllers may cause drawbacks such as partial operation, no-operation, or incorrect fixture information.

∗ You can check the recommended RDM controllers on the www.bayled.eu website.

4 LED - HIGH POWER LED - RGBW(A)
(Beam angle options: 25°- 45° (3 in1 full lens))
20-01-03-10-XX-RGBW

Date _____

Company _____
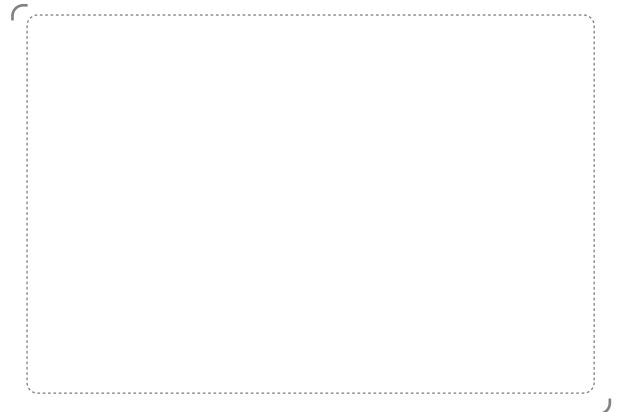
Project _____

b BAYLED®

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www.bayled.eu

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