# RIGEL RGB
## SPECIFICATION SHEETS

| LED | Energy Saver | ♻ | IP66 | IK09 | CLASS I | CE | RoHS | FC | RDM MONITORING | DMX RDM | 5 YEARS WARRANTY |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

## EXPLANATION

RIGEL RGB Series is a powerful and outdoor rated wallwasher with high lumen output and excellent color consistency. RIGEL RGB Series 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.

RIGEL RGB Series is produced in 24 pcs(60cm)/36 pcs(90cm)/48 pcs(120cm) colored LED. RIGEL RGB Series has a extruded aluminium body. It works at universal power input 90 ~ 264VAC to ensure connections over long distances. RIGEL RGB Series provides easy setup and programming with standard DMX 512 and RDM protocols without special or complex communication protocols.

• RIGEL RGB provides compatible communication with other fixtures using standard DMX 512 and RDM protocols without requiring any other special communication protocol or production ID. They are remotely addressable in group via RDM protocol. This feature allows for easy pixel mapping and addressing after all installations have been completed.

• RIGEL RGB wallwashers enable flexible application using very long starter and jumper cables, since they operate in 90 ~ 264VAC 50/60HZ universal voltage range.

• RIGEL RGB 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 RIGEL RGB Series, 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 5mm tempered glass cover.

• Input and output is delivered through a IP67 connector and cables. Jumper cables can be determined according to the desired length of cable.

• RIGEL RGB Series is produced in grey color as standard, and is also available in different colors in RAL code upon request.

| Output | RGB 61CM | RGB 91CM | RGB 120CM |
|---|---|---|---|
| Light Source | 24 High Power Colored LEDs | 36 High Power Colored LEDs | 48 High Power Colored LEDs |
| Lumen Maintenance | 60.000 > hours L70 @ 50° C (full output) | 60.000 > hours L70 @ 50° C (full output) | 60.000 > hours L70 @ 50° C (full output) |
| Color Range | 16.7 Million additive RGB colors | 16.7 Million additive RGB colors | 16.7 Million additive RGB colors |
| Ra(CRI) | RGB Full on ≥70 CRI | RGB Full on on ≥70 CRI | RGB Full on ≥70 CRI |
| Beam Angle | 17°/ 25° / 35° / 45°x20° | 17°/ 25° / 35° / 45°x20° | 17°/ 25° / 35° / 45°x20° |
| Luminous Flux | 1506 lm | 2172 lm | 3177 lm |
| Efficacy (lm/W) | 54 lm/W | 57 lm/W | 59 lm/W |

*\* Photometric performance is measured in compliance with IESNA LM 79-08*

**Control & Programming**

| | |
|---|---|
| Color Resolution: | 3 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: | 198 ~ 264VAC 50/60Hz Universal AC input | | |
| Power Consumption: | 28W | 38W | 54W |
| Connections: | Wire and Connector | | |

**Physical**

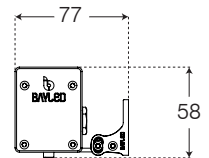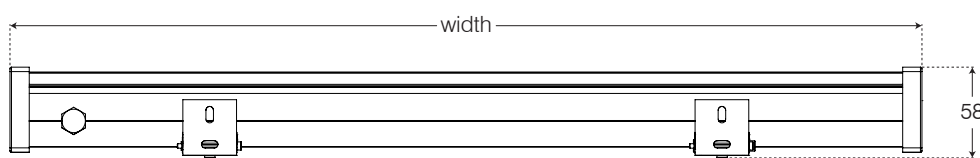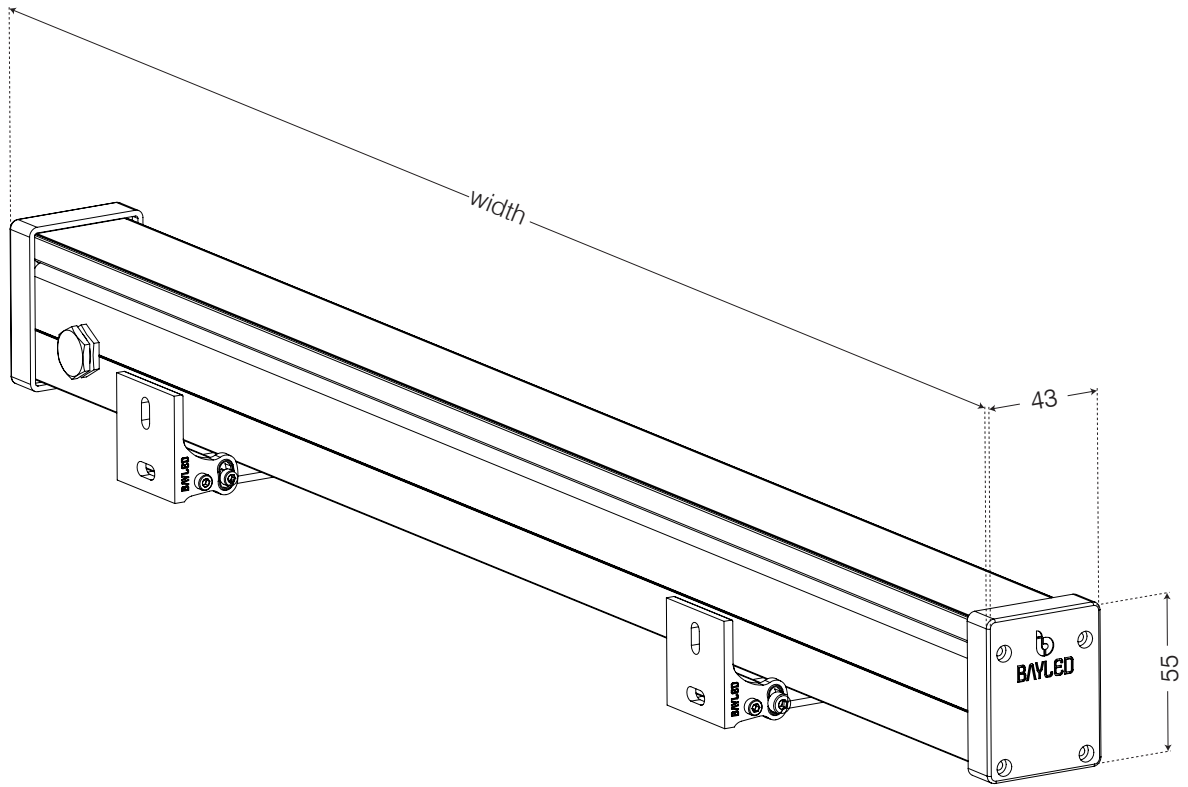| | |
|---|---|
| Housing: | Extrusion |
| Front Material: | 5mm tempered glass |
| Installation Brackets: | Aluminium & Plastic |
| Gasket: | Silicon |
| Color: | Grey (standard) or Custom Any RAL (optional) |

**Measurements:**

| | | | |
|---|---|---|---|
| Dimensions: (height x width x depth) | 58 x 610 x 77 mm | 58 x 910 x 77 mm | 58 x 1200 x 77 mm |
| Net weight: | 1,3 kg | 1,8 kg | 2,3 kg |

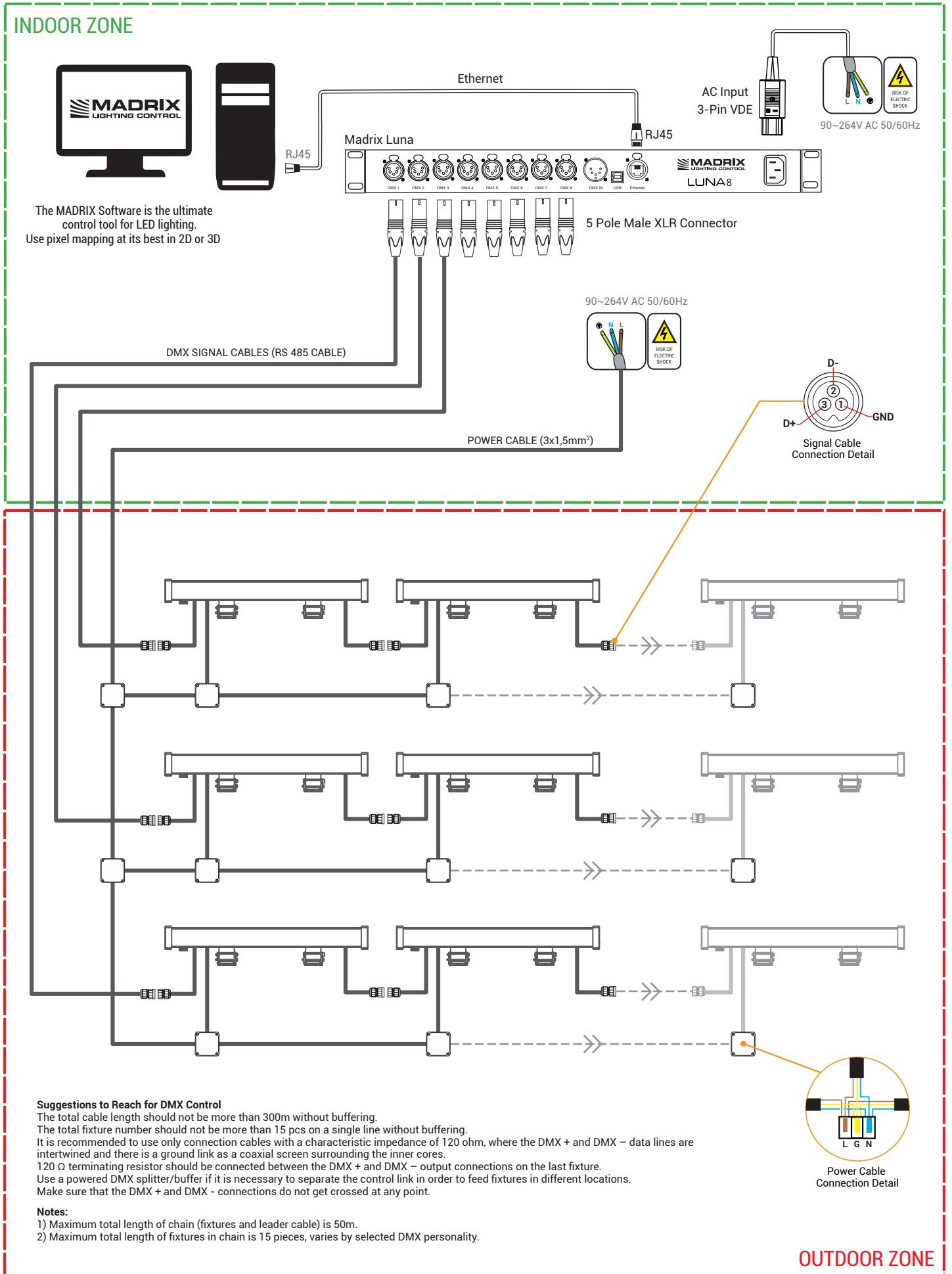**Environmental**

| | |
|---|---|
| Storage Temperature: | -40°C / +80°C |
| Ambient Temperature: | -20°C / +50°C |
| Operating Temperature: | -20°C / +65°C |
| Thermal Protection: | Automatic over temperature protection (+70°C) |
| Cooling: | Cooling by free air convection |
| Ingress Protection Rating: | IP66 |
| Impact Resistance Rating: | IK09 |

| | |
|---|---|
| Certificate: | EN 60598, CE |

| | |
|---|---|
| Warranty: | 5-year Limited Warranty |

width

43

55

width

58

77

58

## INDOOR ZONE

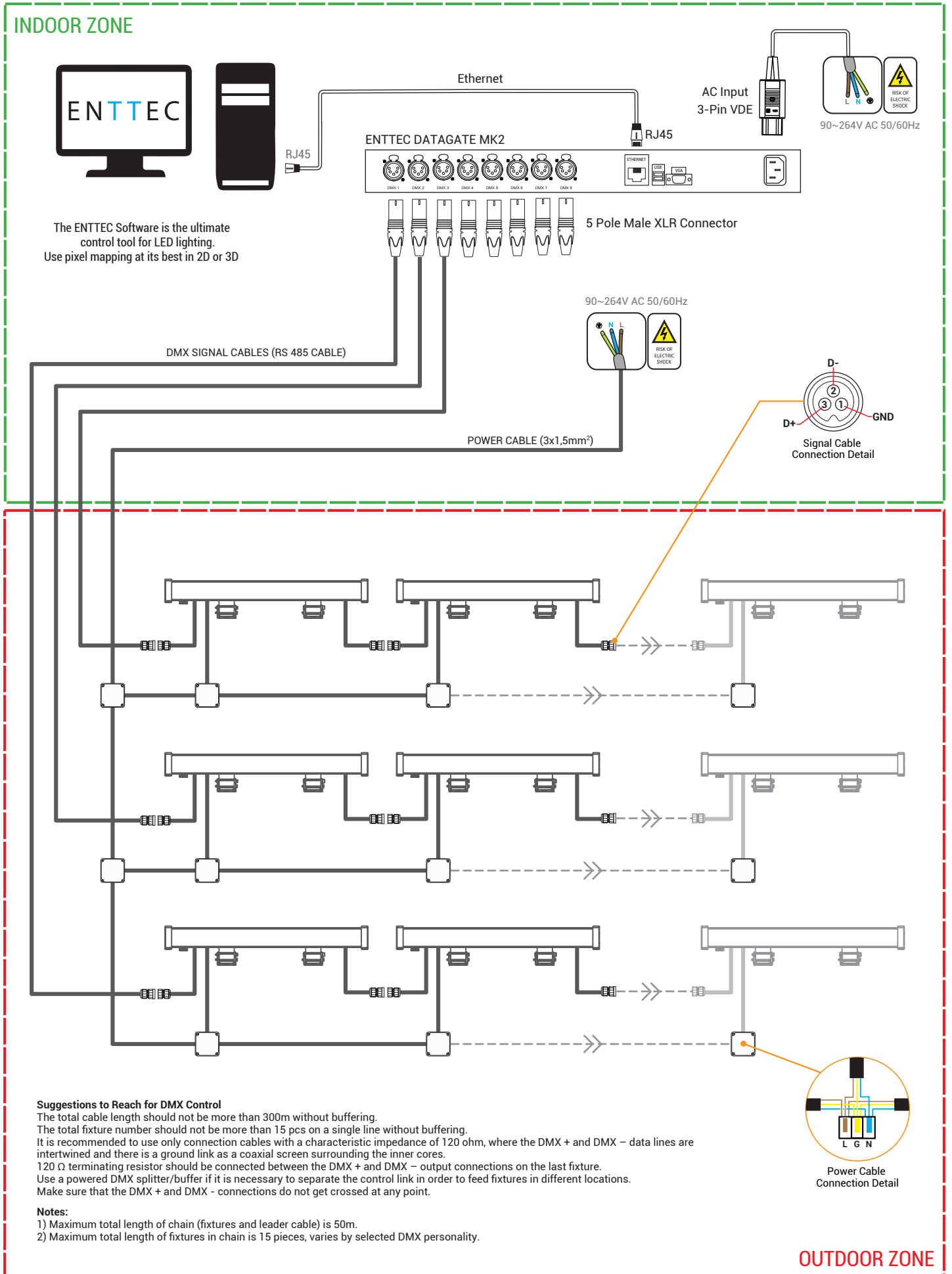The MADRIX Software is the ultimate
control tool for LED lighting.
Use pixel mapping at its best in 2D or 3D

Ethernet

RJ45

RJ45

Madrix Luna

AC Input
3-Pin VDE

90~264V AC 50/60Hz

RISK OF
ELECTRIC
SHOCK

5 Pole Male XLR Connector

DMX SIGNAL CABLES (RS 485 CABLE)

90~264V AC 50/60Hz

RISK OF
ELECTRIC
SHOCK

POWER CABLE (3x1,5mm²)

D-

D+

GND

Signal Cable
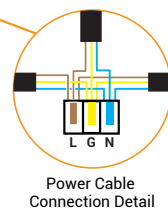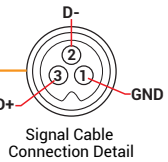Connection Detail

Power Cable
Connection Detail

**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

RJ45

AC Input
3-Pin VDE

RISK OF
ELECTRIC
SHOCK

L  N

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)

90~264V AC 50/60Hz

N  L

RISK OF
ELECTRIC
SHOCK

POWER CABLE (3x1,5mm²)

D-
②
③ ① 
D+        GND

Signal Cable
Connection Detail

## OUTDOOR ZONE

L  G  N

Power Cable
Connection Detail

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## RDM EXPLANATION

RIGEL RGB
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.
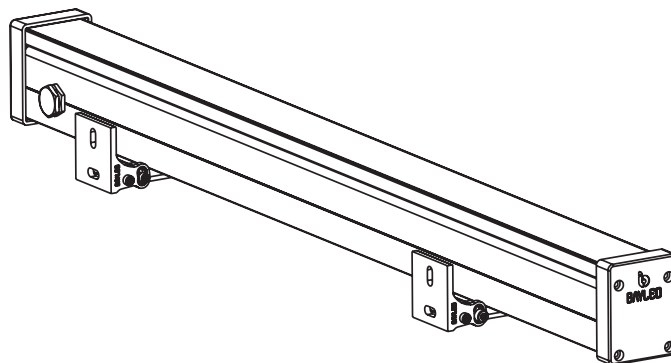
\* You can check the recommended RDM controllers on the www.bayled.eu website.

**POWER LED - RGB**
**(Beam angle options: 17°- 25° - 35° - 45°x20°)**

01-04-61-28-XX-RGB-DMX

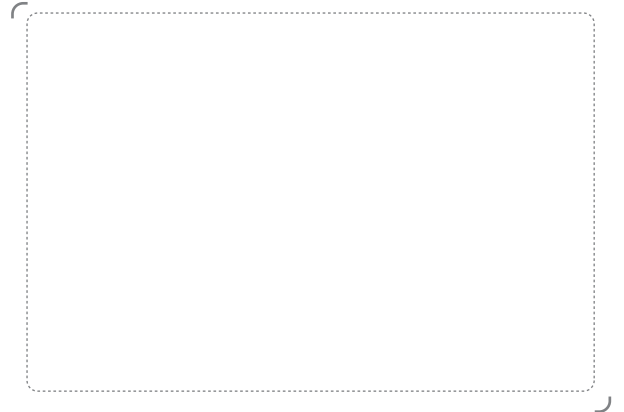01-04-91-38-XX-RGB-DMX

01-04-120-54-XX-RGB-DMX

**BAYLED**®

**BAYTAŞ AYDINLATMA LTD.ŞTİ.**

Sincan Sanayi Sitesi Ahi Evran Mahallesi
255. Cadde No:84 06935 Sincan
Ankara / TÜRKİYE

Tel: +90 (312) 395 76 35 - 45
Faks: +90 (312) 395 73 65

www.bayled.eu

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