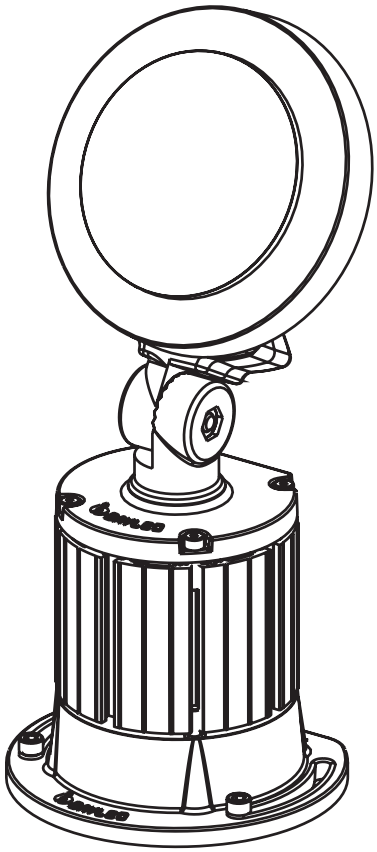
NERO RGB ALL IN ONE

SPECIFICATION SHEETS



EXPLANATION

NERO RGB AIO Series is a powerful and outdoor rated inground with high lumen output and excellent color consistency. NERO RGB AIO 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.

NERO RGB AIO Series is produced in 9 pcs colored LED. NERO RGB AIO Series has a sturdy die cast aluminium body. It works at universal power input 90 ~ 264VAC to ensure connections over long distances. NERO RGB AIO Series provides easy setup and programming with standard DMX 512 and RDM protocols without special or complex communication protocols.

• NERO RGB AIO 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.

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

• NERO RGB AIO 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 NERO RGB AIO, 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.

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

Output	RGB 12W	RGB 25W
Light Source	9 High Power Colored LEDs	9 High Power Colored LEDs
Lumen Maintenance	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
Ra(CRI)	RGB Full on ≥70CRI	RGB Full on ≥70CRI
Beam Angle	30°- 50°- 35°x70°	30°- 50°- 35°x70°
Luminous Flux	588 lm	985 lm
Efficacy (lm/W)	49 lm/W	39 lm/W

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

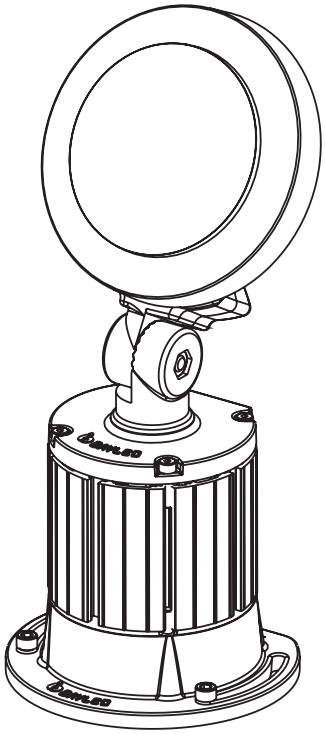
Electrical		
Operating Voltage:	90 ~ 264VAC 50/60Hz Universal AC input	
Power Consumption:	12W	25W
Connections:	Wire and Connector	

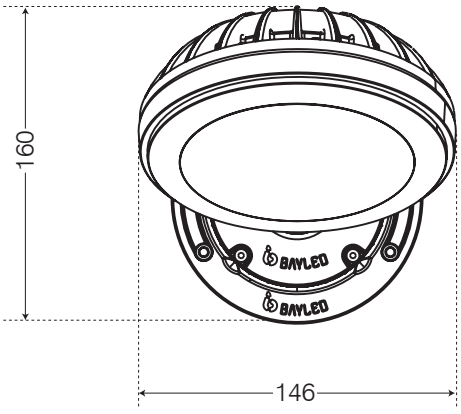
Physical	
Housing:	Die cast
Front Material:	PMMA
Installation Brackets:	Stainless steel and plastic
Gasket:	Silicon
Color:	Grey (standard) or Custom Any RAL (optional)

Measurements:	
Dimensions: (height x width x depth)	334 x 146 x 160 mm
Net weight:	1,66 kg

Environmental	
Storage Temperature:	-40°C / +85°C
Ambient Temperature:	-25°C / +50°C
Operating Temperature:	-25°C / +65°C
Thermal Protection	Automatic over temperature protection(+70°C)
Cooling:	Cooling by free air convection
Ingress Protection Rating:	IP66
Impact Resistance Rating:	IK10

Certificate:	EN 60598, CE
Warranty:	5-year Limited Warranty

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146
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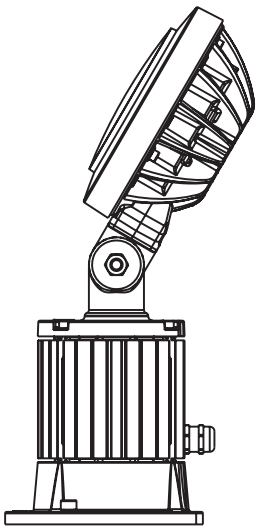

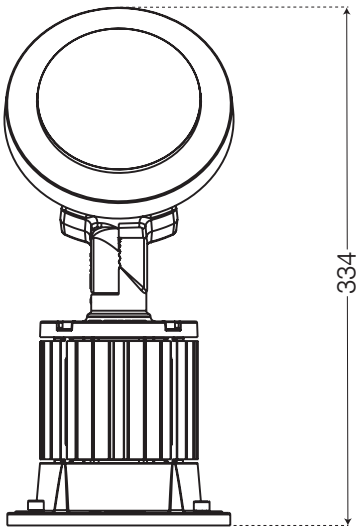
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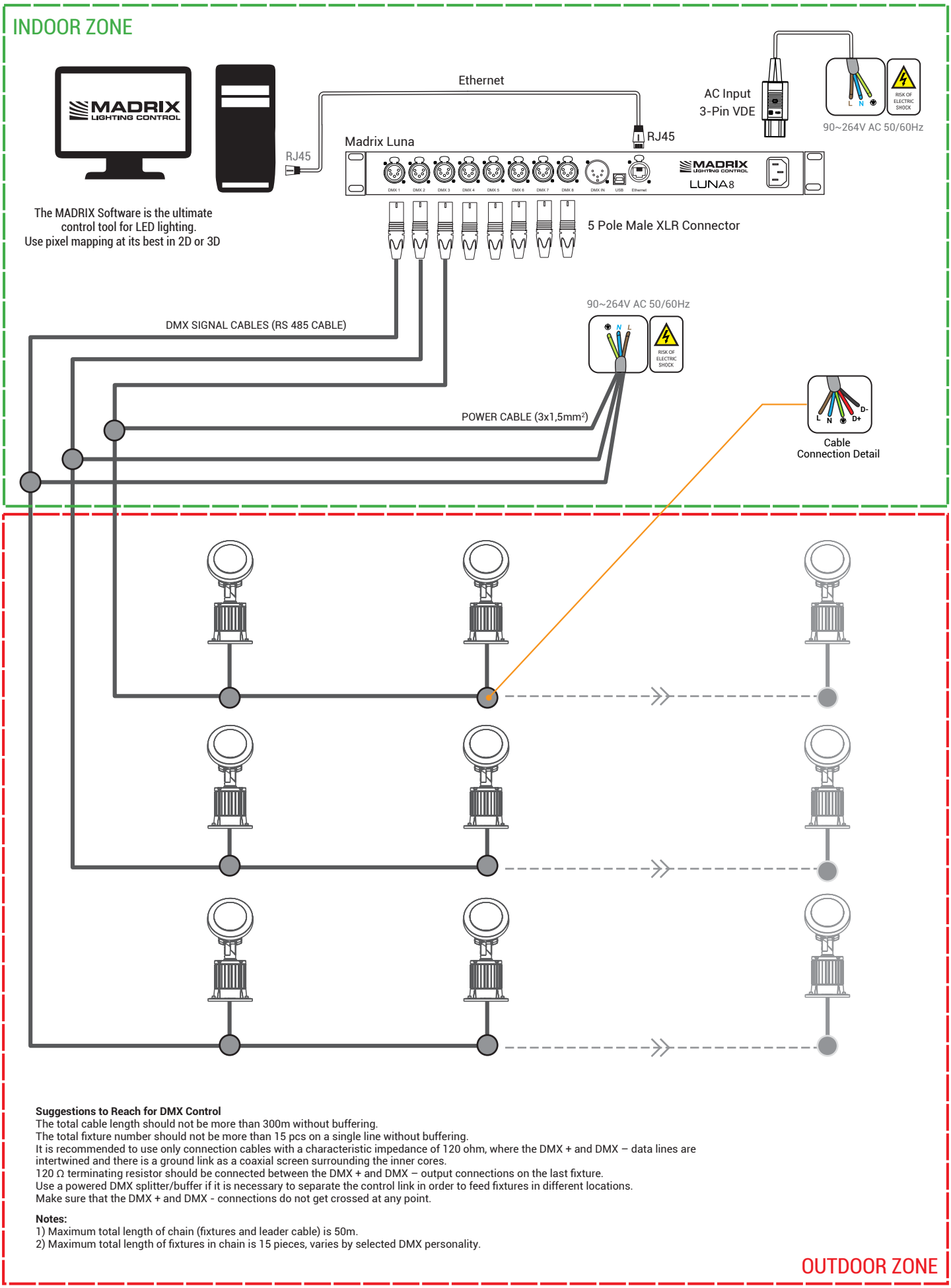
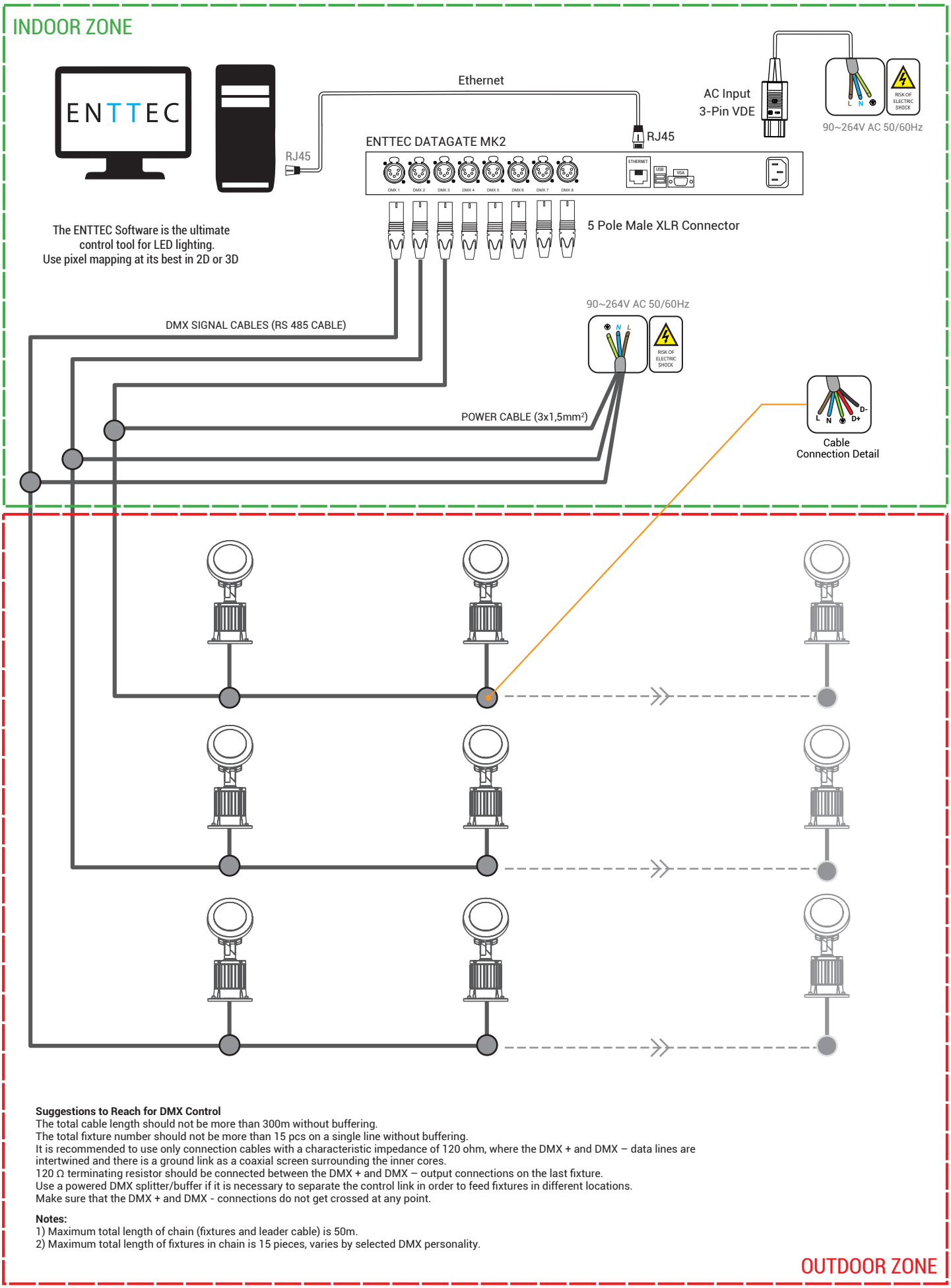


Suggestions to Reach for DMX Control
The total cable length should not be more than 300m without buffering.
The total fixture number should not be more than 15 pcs on a single line without buffering.
It is recommended to use only connection cables with a characteristic impedance of 120 ohm, where the 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.



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RDM EXPLANATION

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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	√	

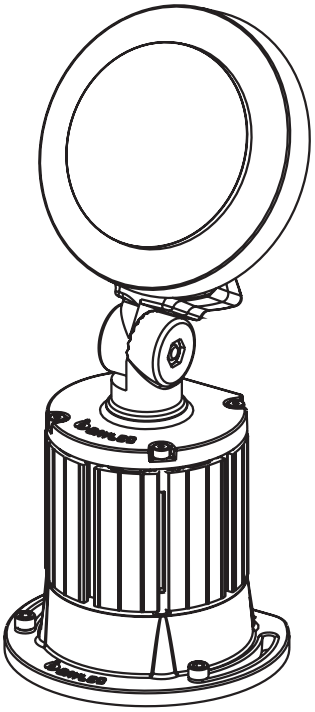
* The command names and command functions used on different RDM controllers may vary.
* Incompatible RDM controllers may cause drawbacks such as partial operation, no-operation, or incorrect fixture information.
* You can check the recommended RDM controllers on the www.bayled.eu website.

ORDER CODES

9 LED - HIGH POWER LED - RGB
(Beam angle options: 30°- 50°- 35°x70°)

20-02-12-9-XX-D-RGB

20-02-25-9-XX-D-RGB



Date _____

Company _____

Project _____

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