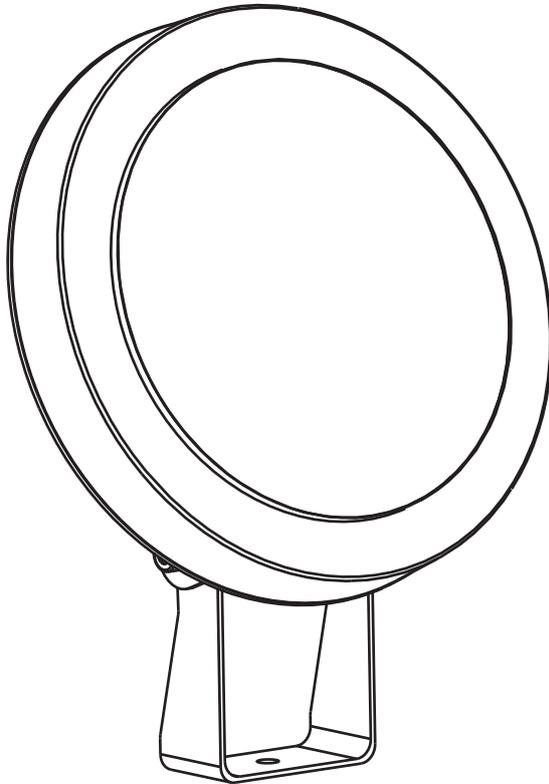


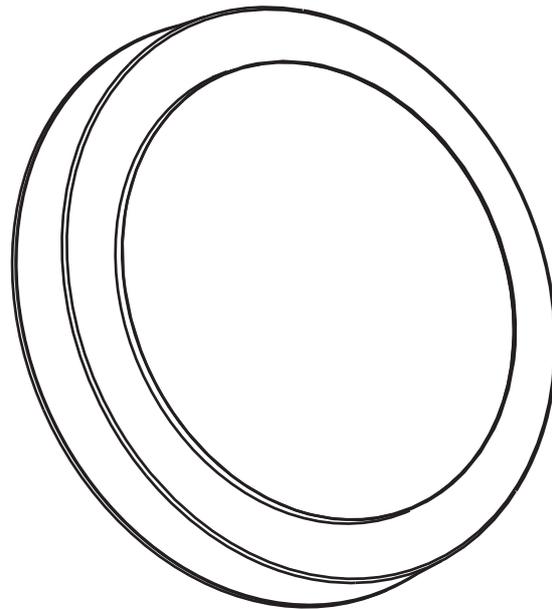
# ORCA 18 RGBW(A) / PAR56 RGBW(A)

## SPECIFICATION SHEETS

ORCA 18



ORCA PAR56



### EXPLANATION

ORCA RGBW SERIES Series is a powerful and outdoor rated underwater with high lumen output and excellent color consistency. ORCA RGBW SERIES are excellent solution for underwater Lighting.

ORCA RGBW SERIES Series is produced in 18 pcs colored LED. ORCA RGBW SERIES Series has a stainless steel body. It works at 24V DC to ensure connections over long distances. ORCA RGBW SERIES Series provides easy setup and programming with standard DMX 512 protocols without special or complex communication protocols.

- ORCA RGBW SERIES provides compatible communication with other fixtures using standard DMX 512 protocols without requiring any other special communication protocol or production ID. This feature allows for easy pixel mapping and addressing after all installations have been completed.
- ORCA RGBW SERIES ingrounds enable flexible application using very long starter and jumper cables, since they operate in 24V DC input voltage.
- ORCA RGBW SERIES 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.
- IP68 class ORCA RGBW SERIES, are designed to meet the challenging requirements 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 PMMA cover.
- Input is delivered through a IP68 connector and cables. Jumper cables can be determined according to the desired length of cable.

<b>Output</b>	<b>RGBW(A) 18W</b>
<b>Light Source</b>	18 High Power Colored LEDs
<b>Lumen Maintenance</b>	60.000 > hours L70 @ 50° C (full output)
<b>Color Range</b>	16.7 Million additive RGB colors, white CCT 6500K
<b>Ra(CRI)</b>	RGBW(A) Full on ≥70CRI
<b>Beam Angle</b>	8°-25°-45°-60°
<b>Luminous Flux</b>	1520 lm
<b>Efficacy (lm/W)</b>	85 lm/W

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**Control & Programming**

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

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**Electrical**

<b>Operating Voltage:</b>	12V DC
<b>Power Consumption:</b>	18W
<b>Connections:</b>	Wire and Connector

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**Physical**

<b>Housing:</b>	Die cast
<b>Front Material:</b>	PMMA
<b>Installation Brackets:</b>	Stainless steel
<b>Gasket:</b>	Silicon

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**Measurements:**

<b>Dimensions:</b> (height x width x depth)	239 x 179 x 77 mm
<b>Net weight:</b>	0,78 kg

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**Environmental**

<b>Storage Temperature:</b>	-40°C / +85°C
<b>Ambient Temperature:</b>	-25°C / +50°C
<b>Operating Temperature:</b>	-25°C / +65°C
<b>Cooling:</b>	Cooling by free water convection
<b>Ingress Protection Rating:</b>	IP68

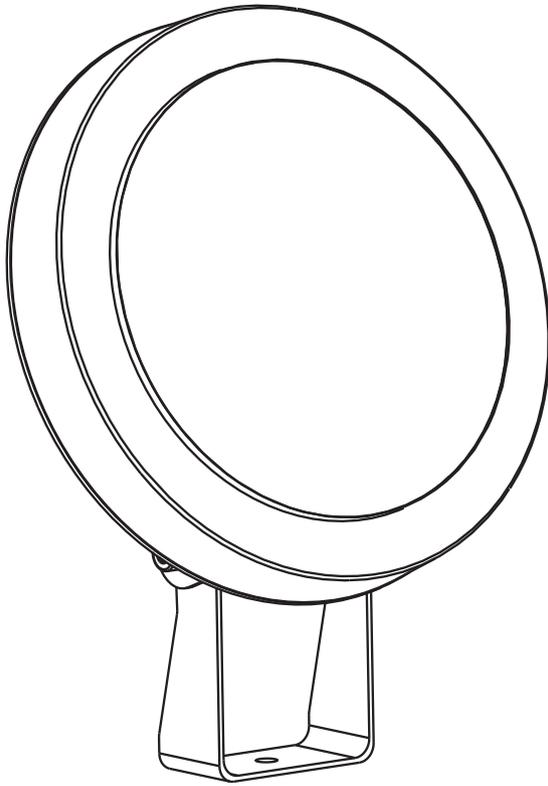
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**Certificate:** EN 60598, CE

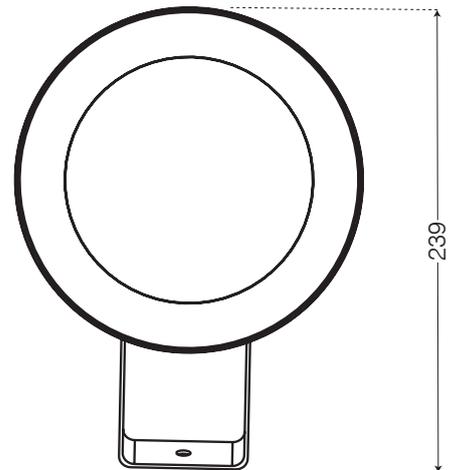
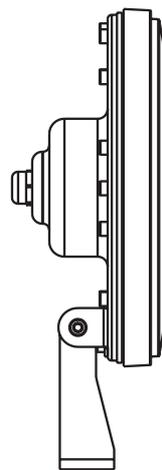
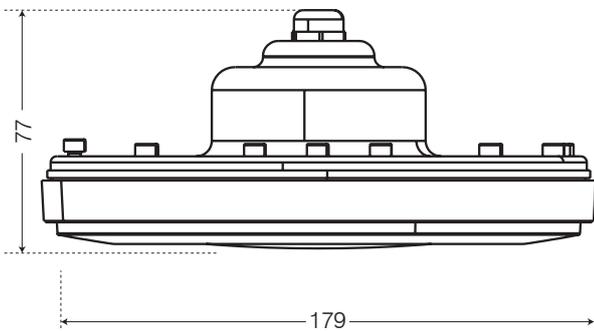
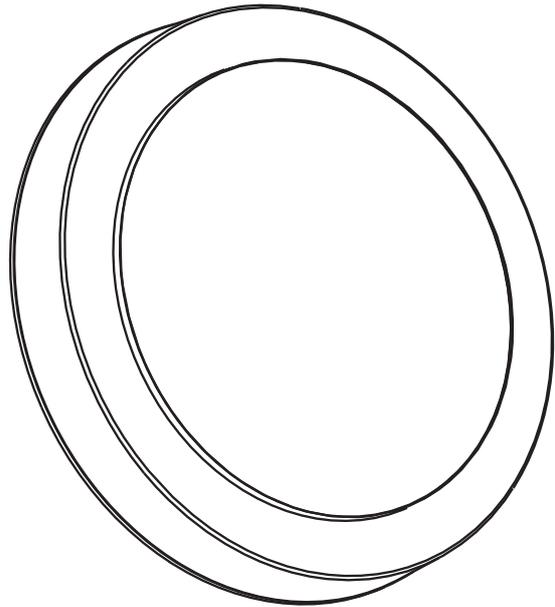
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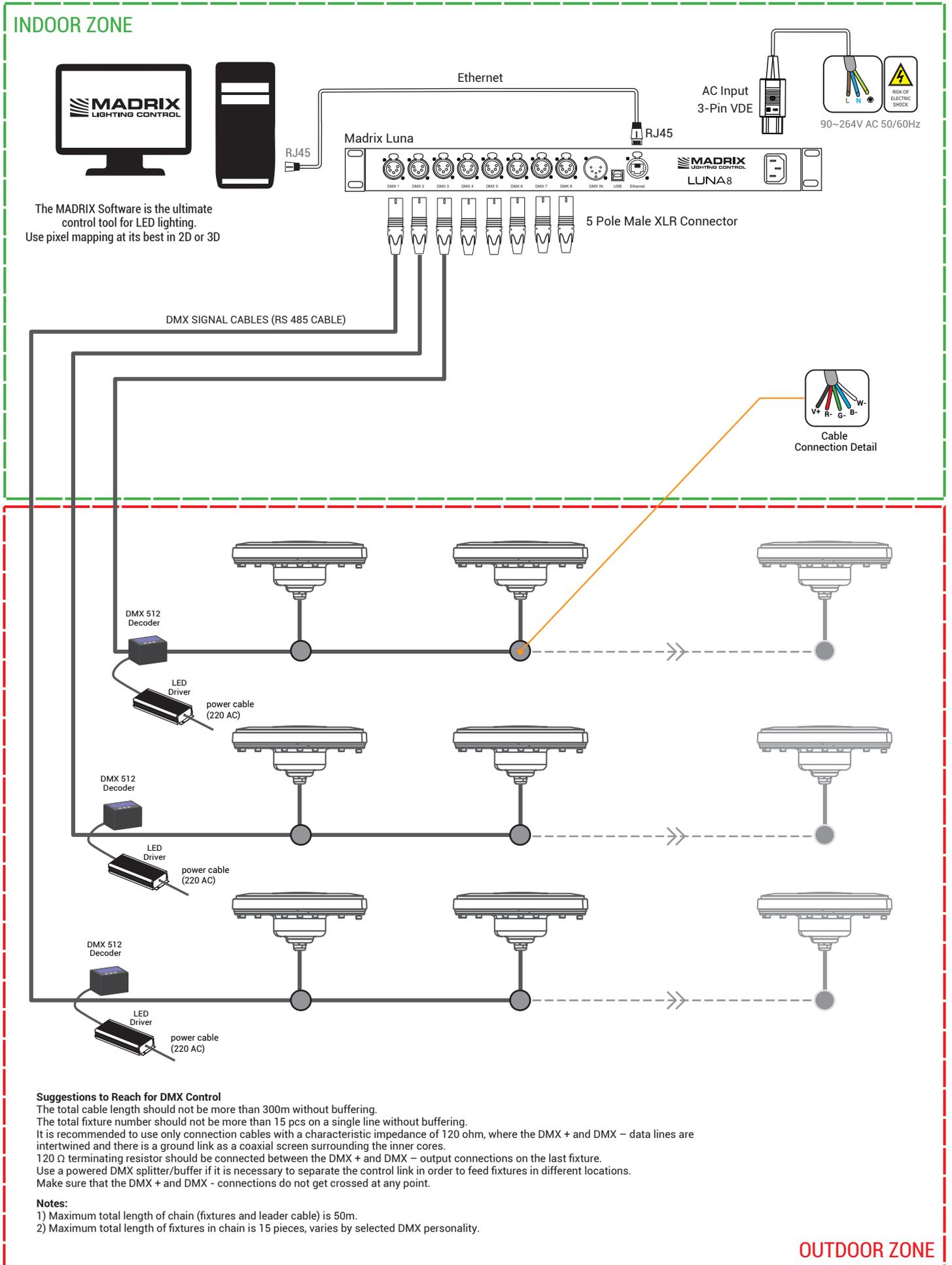
**Warranty:** 3-year Limited Warranty

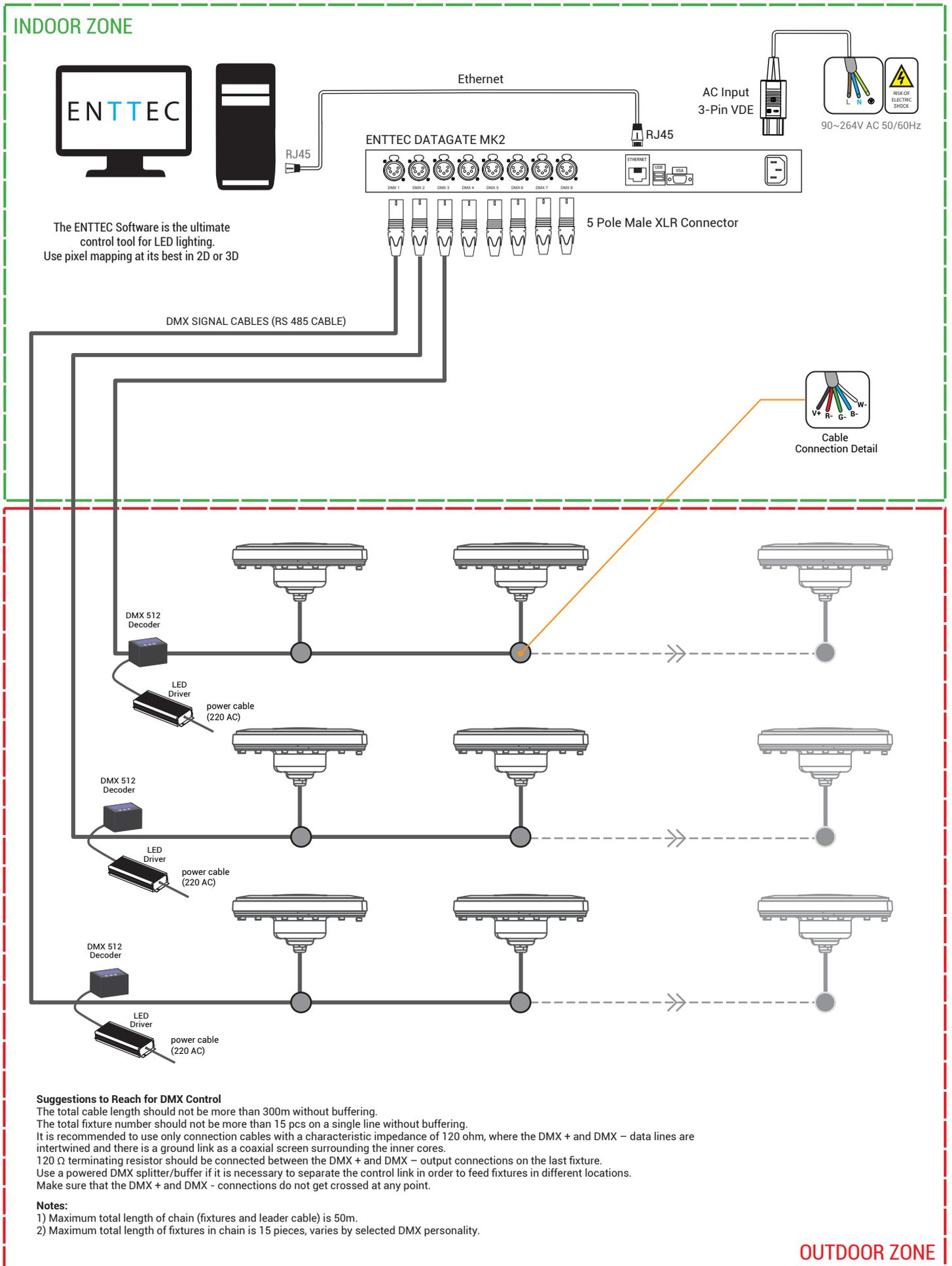
ORCA 18



ORCA PAR56







**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**

**RDM EXPLANATION**

ORCA 18 RGBW(A) / PAR56 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.

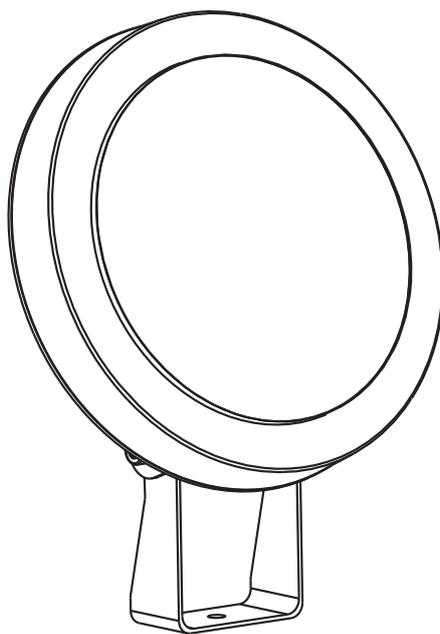
\* You can check the recommended RDM controllers on the [www.bayled.eu](http://www.bayled.eu) website.

**18 LED - MID POWER LED - RGBW(A)**  
(Beam angle options: 8°-25°-45°-60°)

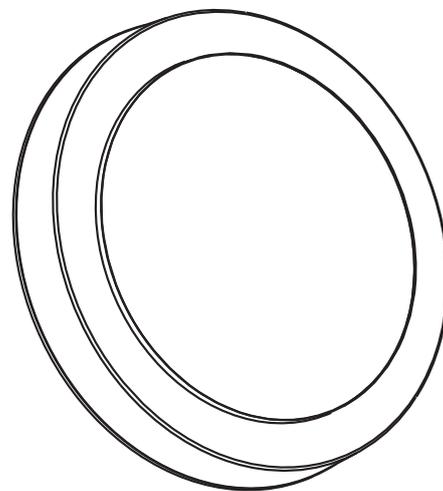
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30-03-24-18-PAR56-XX-RGBW

ORCA 18



ORCA PAR56



Date \_\_\_\_\_  
Company \_\_\_\_\_  
Project \_\_\_\_\_



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[www.bayled.eu](http://www.bayled.eu)



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