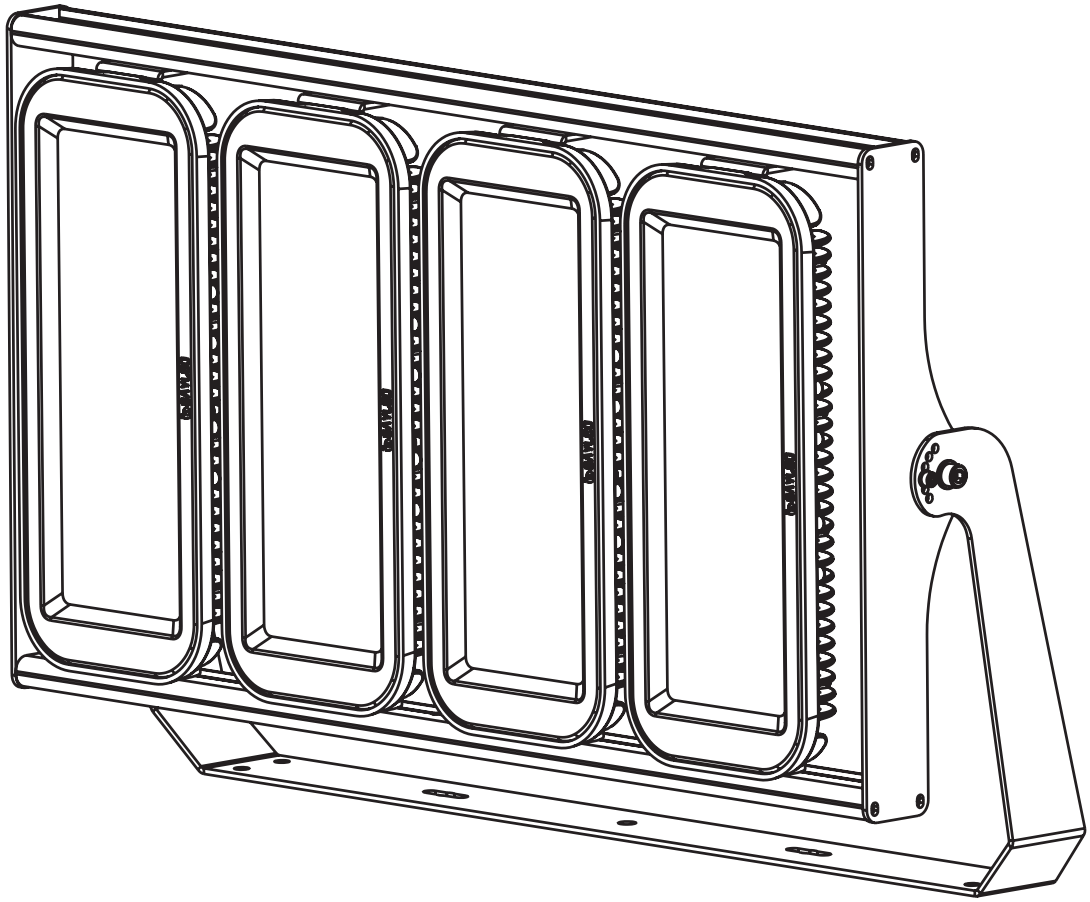
TETRA PRV-4 RGB

SPECIFICATION SHEETS

BAYLED®
www.bayled.eu



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

EXPLANATION

TETRA PRV RGB Series is a powerful and outdoor rated floodlight with high lumen output and excellent color consistency. TETRA PRV RGB are excellent solution for accent lighting, façade lighting applications and widely used in illuminating historical places, monuments in parks and other areas.

TETRA PRV RGB Series is produced in 192 pcs colored LED. TETRA PRV RGB Series has a die cast aluminium body. It works at universal power input 90 ~ 264VAC to ensure connections over long distances. TETRA PRV RGB Series provides easy setup and programming with standard DMX 512 and RDM protocols without special or complex communication protocols.

• TETRA PRV RGB Series 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.

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

• TETRA PRV 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 TETRA PRV 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.

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

Output	RGB 220W	RGB 340W
Light Source	192 High Power Colored LEDs	192 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	8°/ 15°/ 30°/ 60°/ 90°	8°/ 15°/ 30°/ 60°/ 90°
Luminous Flux	12541 lm	17560 lm
Efficacy (lm/W)	57 lm/W	52 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

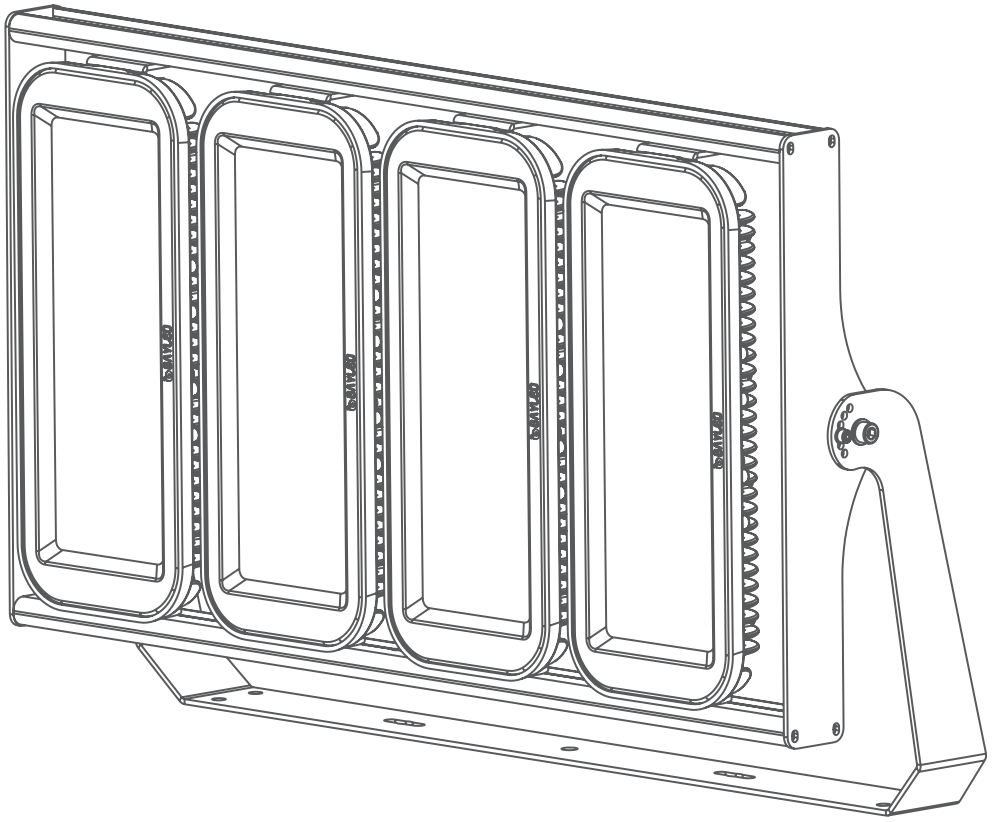
Electrical		
Operating Voltage:	90 ~ 264VAC 50/60Hz Universal AC input	
Power Consumption:	220W	340W
Connections:	Wire and Connector	

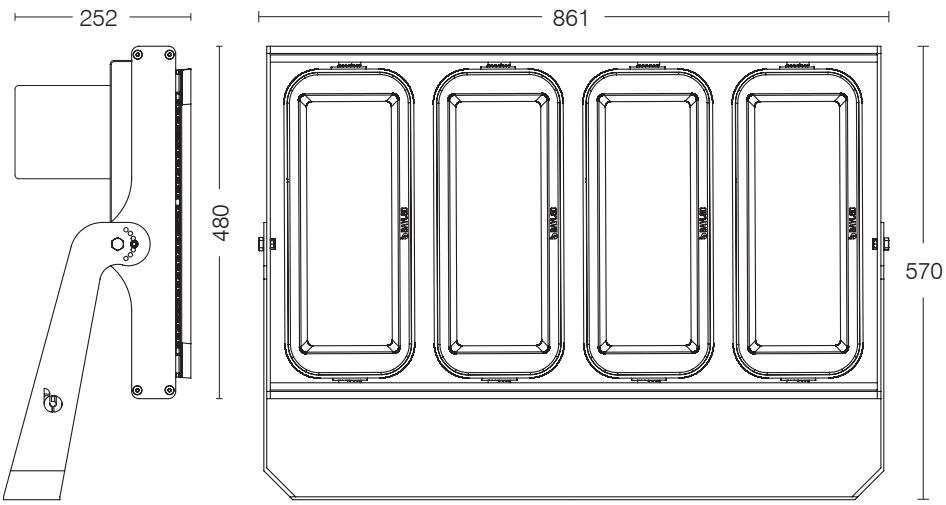
Physical	
Housing:	Die cast
Front Material:	Tempered glass (5mm)
Installation Brackets:	Stainless steel
Gasket:	Silicon
Color:	Grey (standard) or Custom Any RAL (optional)

Measurements:	
Dimensions: (height x width x depth)	570 x 861 x 252 mm
Net weight:	29 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:	IK09

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




252
861
480
570

INDOOR ZONE

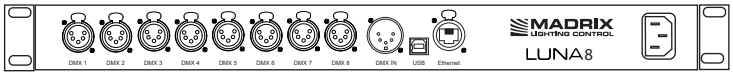
The MADRIX Software is the ultimate control tool for LED lighting.
Use pixel mapping at its best in 2D or 3D

RJ45

Ethernet

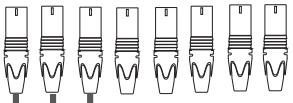
RJ45

Madrix Luna



AC Input
3-Pin VDE

90~264V AC 50/60Hz

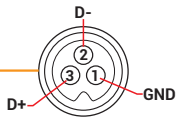


5 Pole Male XLR Connector

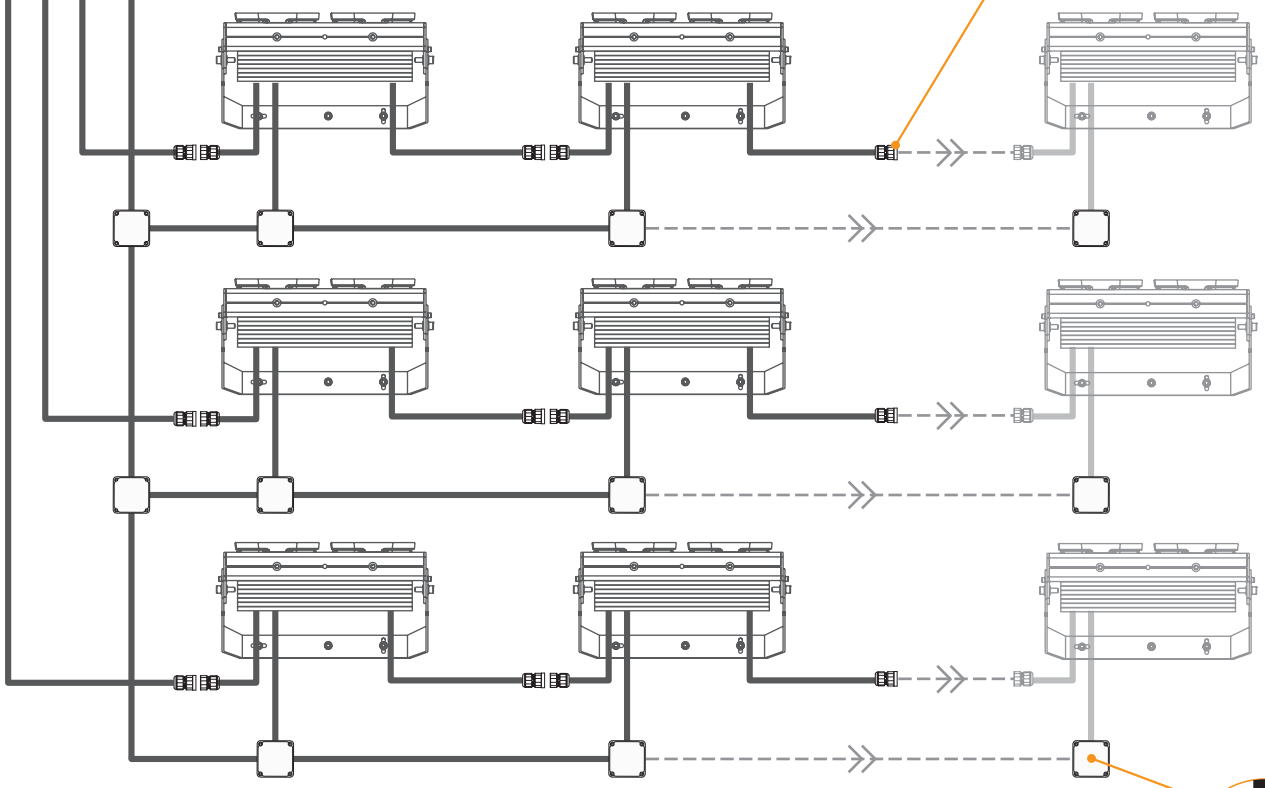
90~264V AC 50/60Hz

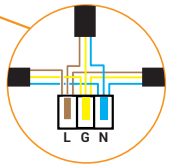
DMX SIGNAL CABLES (RS 485 CABLE)

POWER CABLE (3x1,5mm²)



Signal Cable
Connection Detail



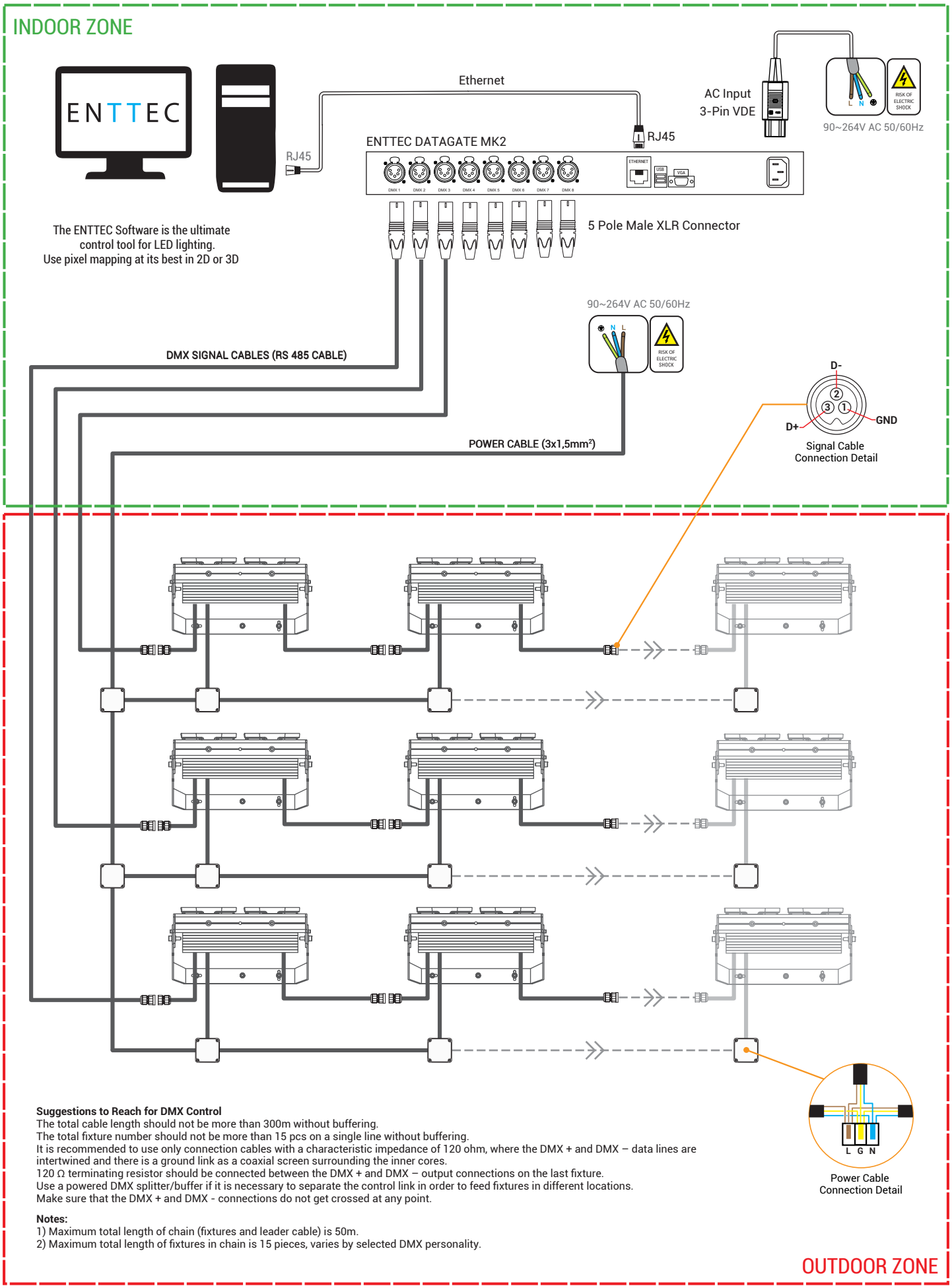


Power Cable
Connection Detail

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



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RDM EXPLANATION

TETRA PRV RGB SERIES
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

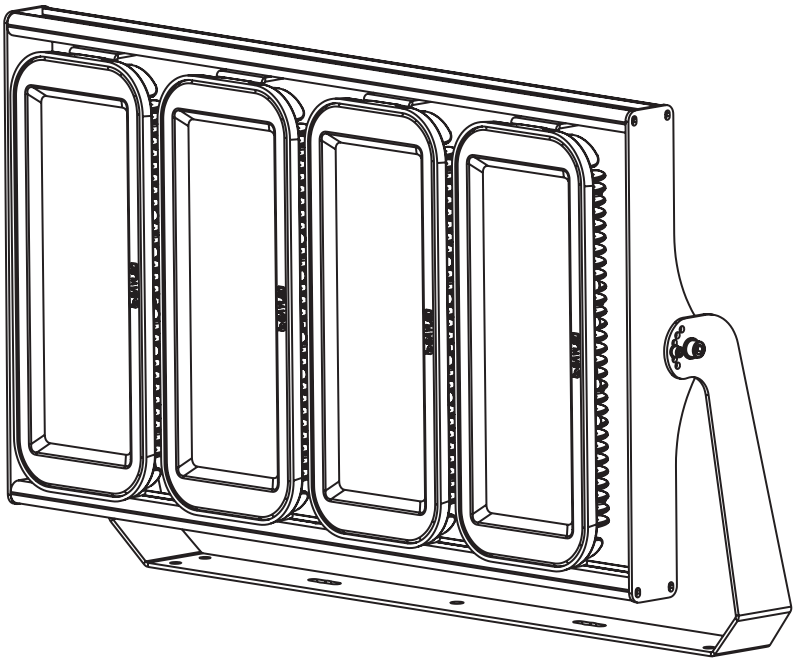
	GET	SET
Device Info	√	√
DMX Start Address	√	√
Identify Device	√	√
Device Model Description	√	
Device Label	√	√
Software Version Label	√	
DMX Personality	√	√
DMX Personality Description	√	
Device Power Cycles	√	
Status ID Description	√	
Supported Parameters	√	
Parameter Description	√	

* 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.

TETRA PRV-4 RGB POWER LED
(Beam angle options: 8°/ 15°/ 30°/ 60°/ 90°)

45-23-220-192-XX-RGB

45-23-340-192-XX-RGB



Date _____

Company _____

Project _____

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