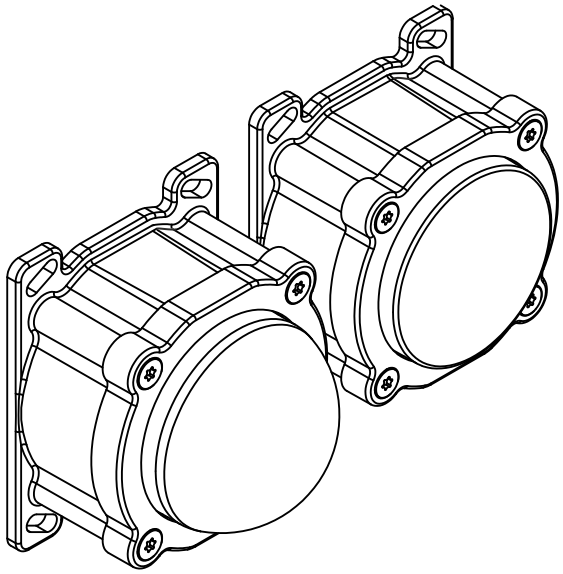
PD60 RGB SERIES

Specification Sheets

V2.2



Date _____

Company _____

Project _____

Explanation

PD60 RGB Series ensures optimum illumination and excellent colour harmony with sturdy outdoor-rated structure, high brightness, wide color range, customization options specifically in large-scale surfaces or high-rise structures where pixel pitch lengths are required with a considerable distance. Extraordinary effects can be created with large fixtures without the limitation of size, shape and distance limit. Connectors are located on the rear in the PD60 RGB version and on the side surfaces in the PD60S RGB version. The dome version with opaque lid is used in many different designs. The fixture has 18LEDs and it can be seen from long distance. PD60 RGB series is widely used in large-scale projects in terms of producing dot-pixel solutions with direct view for media façade and specialized lighting applications.

• PD60 RGB provides compatible communication with other fixtures using standard DMX512 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.

• PD60 RGB fixtures enable flexible application using very long starter and jumper cables, since they operate in a 12-48V DC voltage range.

• Through RDM monitoring and software, it is possible to follow and determine whether the fixtures are working properly; by displaying voltage input and output warnings, serial number, display of regional temperature values and DMX address. The user is informed by e-mail according to incoming data thus, automatic interventions are possible based on received data.

• PD60 RGB fixtures work through Madrix® software and hardware in coordination. Pixel mapping can be made easily by selecting fixtures in Madrix® library.

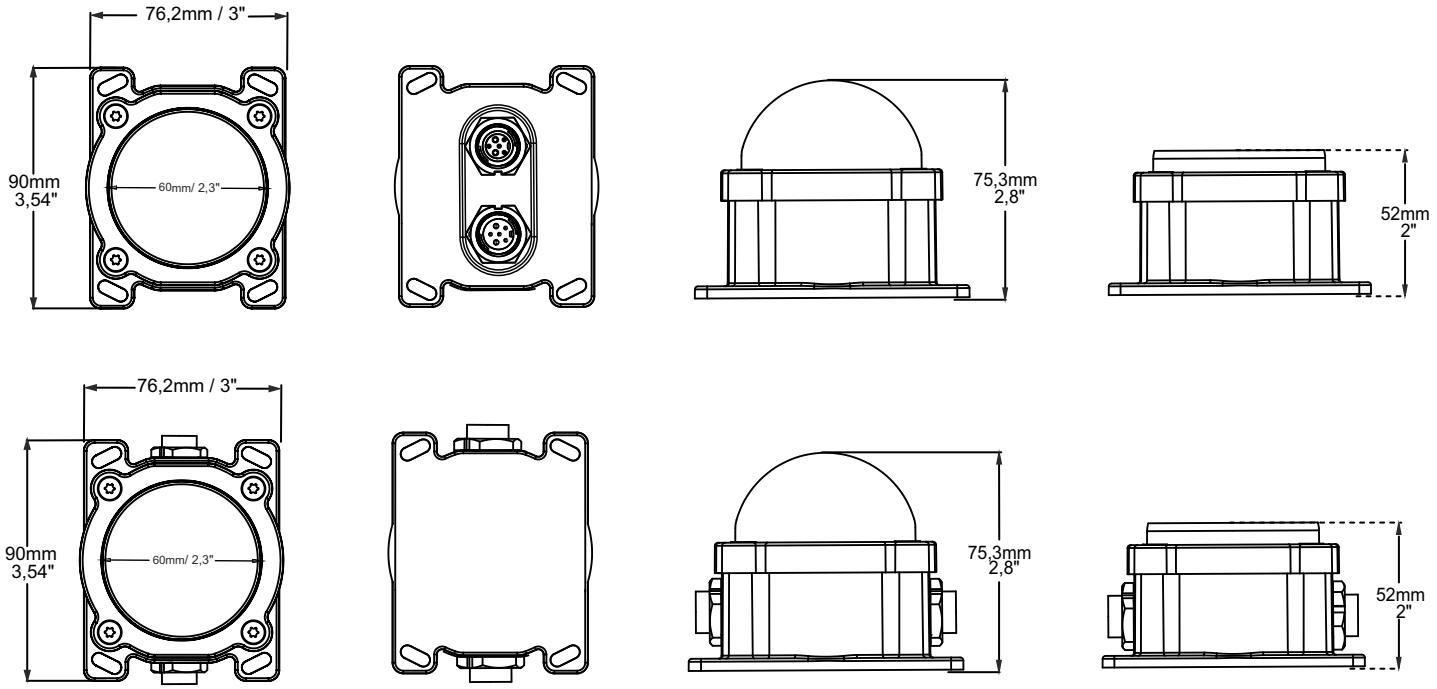
• Direct View and Dome options are available. Connectors are located on the rear in the PD60 RGB version, and on the side surfaces in the PD60S RGB version. Transparent and opaque caps are resistant to UV and impact and never turn yellow during their lifetime due to the alloyed PMMA and PC structure.

• PD60 RGB fixture is in IP67 protection class and it is designed to meet challenging requirements of exterior facade applications with its robust and durable structure. PD60 RGB is resistant to impact, vibration and other harsh conditions due to aluminum housing and special filler material.

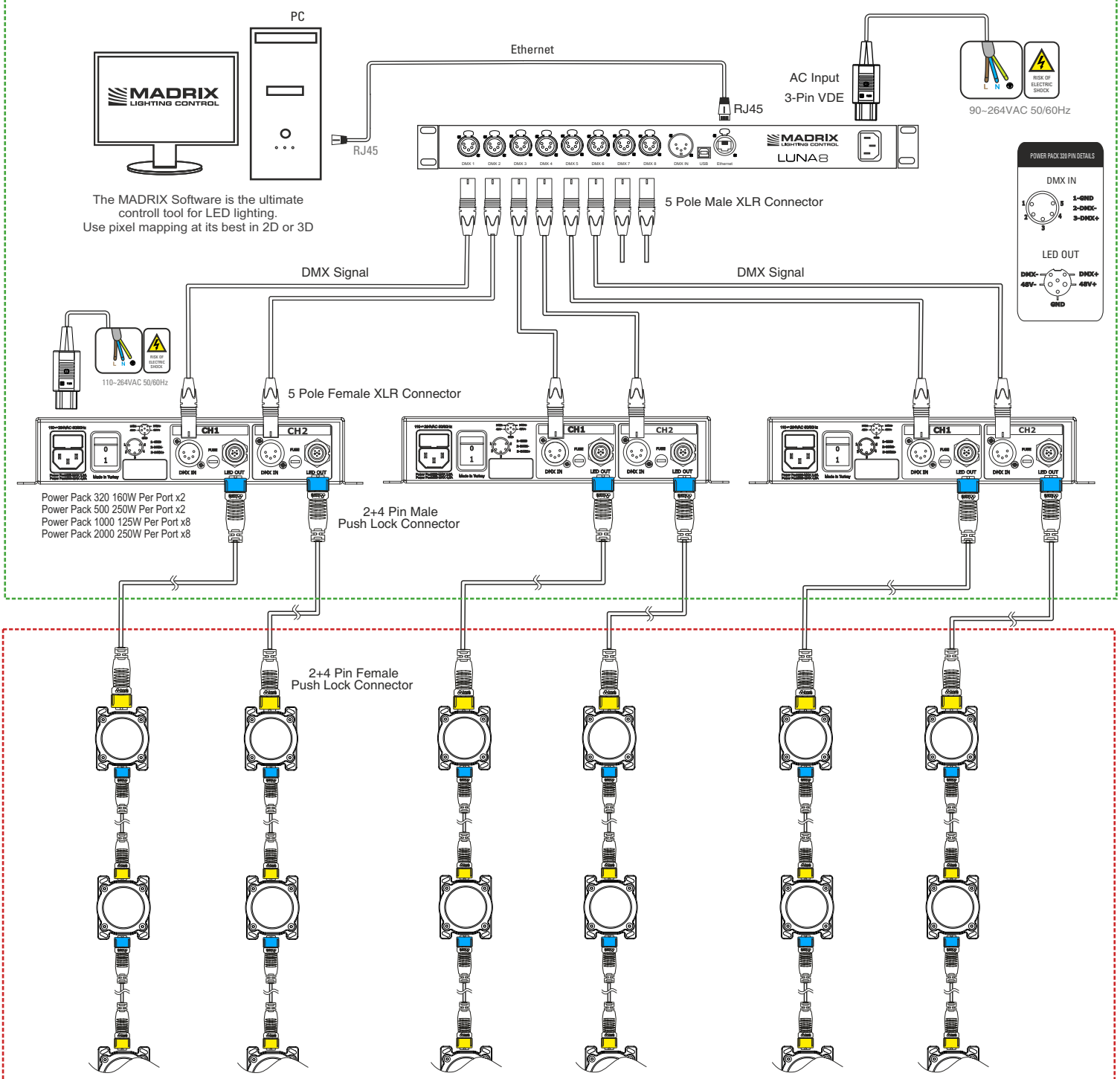
• PD60 RGB fixture provides power and data transmission via input and output connectors. IP67 connectors are in push-lock structure and can be easily dismantled and assembled. There is no need to use extra junction-box via input and output.

• PD60 RGB Series is produced in RAL9005-black color as standard, and it is also available in different colors in RAL code upon request.

	Direct View	Dome Diffused
Output		
Light Source:	18pcs High intensity 3 in 1 Chip RGB LEDs	
Lumen Maintenance:	60.000 > hours L70 @ 50° C (full output)	
Color Range:	16.7 Million additive RGB colors	
Beam Angle:	105°	170°
Luminuous Flux:	121 lm	52 lm
Luminous Intensity:	51 cd	9 cd
Efficacy (lm/W):	28 lm/W	12 lm/W
**Photometric performance is measured in compliance with IESNA LM 79-08*		
Control & Programming		
Color Resolution:	3 x 16-bit (Gamma correction)	
Addressing:	RDM (Group of Remote Addressable Systems)	
Monitoring:	Voltage Monitoring,Temperature Monitoring, Status Monitoring,Power Cycle Monitoring, Lumen-Maintenance Life Monitoring	
PWM Frequency:	1,600Hz flicker free dimming to 0.1%	
RDM Compliance:	USITT DMX512-1990	
RDM Compliance:	ANSI/ESTA E1.20-2010	
Electrical		
Operating Voltage:	48V DC	
Power Consumption:	4,32W Maximum at full output, steady state	
Maximum in Chain:	Max 32 pieces	
Connections:	Push Lock Type 2+4 Pin Waterproof Connector	
Physical		
Housing:	Die-Cast Aluminium	
Front Material:	Die-Cast Polycarbonate UV and impact resistant opal or clear diffuser	
Hardware:	Stainless Steel	
Gasket:	Silicon	
Surface Finish:	RAL 9005 Electrostatically polyester powder coat (standard) or Custom Any RAL (optional)	
Measurements:		
Weight:	0,330Kg (0,720lb)	0,310Kg (0,680lb)
Dimensions: (H x W x D)	52x90x76,2mm 2x3,54x3in	75,3x90x76,2mm 3x3,54x3in
Environmental		
Storage Temperature:	-40°C - 85°C - (-40°F - 185°F)	
Start-up Temperature:	-25°C - 50°C - (-13°F - 122°F)	
Operating Temperature:	-40°C - 50°C - (-40°F - 122°F)	
Thermal Protection:	Automatic over temperature protection	
Cooling:	Cooling by free air convection	
Vibration Resistance:	Complies with ANSI C136.31-2010	
Corrosion Resistance:	Complies with ASTM B117 standard	
Ingress Protection Rating:	IP67	
Impact Resistance Rating:	IK09	
Humidity (max.):	0 to 98%, non-condensing	
Test:	All Hera LED products are assessed by a stringent 100 hour test, above and beyond what they would come across in the real world. This can be seen from our advanced RDM Monitoring System as well, leaving no place for doubt. This strict testing, builds trust, when your reputation is on the line. It is our company's culture and heritage, also our way of securing our worthwhile Customers.	
Certification		
EU Safety:	EN 60598-1, EN 60598-2-3, EN 62471, EN 60950-1, EN 60950-22, EN 60529, EN 62262	
EU EMC:	EN 55024, EN 55032, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8	
US Safety:	UL 1598, UL 60950-1, UL 60950-22	
US EMC:	FCC Part 15 Class A	
Warranty:	5-year Limited Warranty	


76,2mm / 3"
90mm
3,54"
60mm/ 2,3"
75,3mm
2,8"
52mm
2"
76,2mm / 3"
90mm
3,54"
60mm/ 2,3"
75,3mm
2,8"
52mm
2"

Indoor Zone



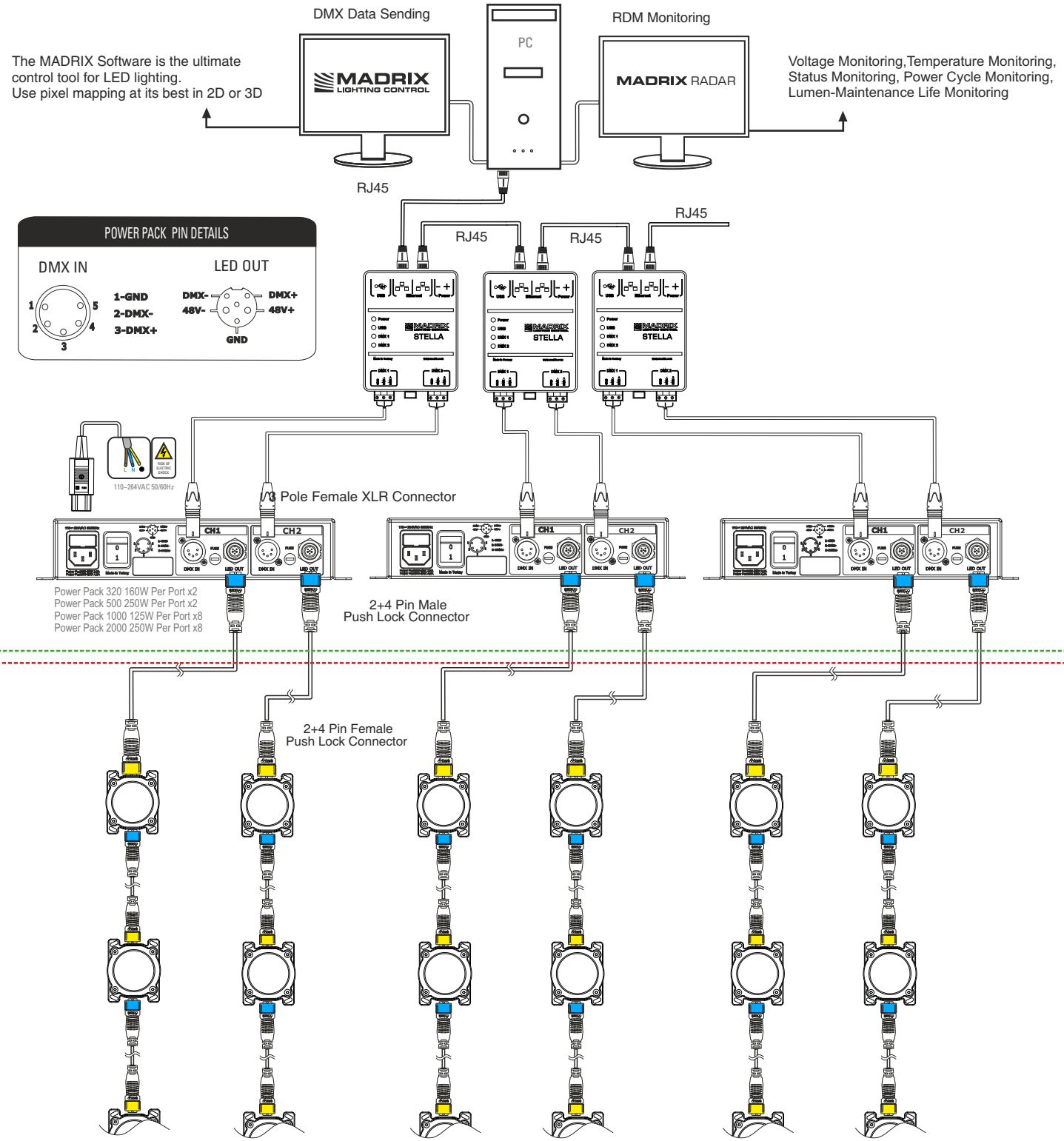
Suggestions to Reach for DMX Control

The total cable length should not be more than 3,900 ft (1200m) without buffering.
The total fixture number should not be more than 32 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.
Do not insert a passive Y-split into the control cabling.
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.

Note:
1) Maximum total length of chain (fixtures and leader cable) 70 m.
2) Maximum total of fixtures in chain 32 pieces.
3) Maximum total length of leader cable 50 m.

Outdoor Zone

Indoor Zone



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Outdoor Zone

RDM Explanation

PD60 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 or change the fixture's settings, send commands and receive or monitor the fixture's data. The recommended RDM controller and the wiring diagram can be found on page 5. RDM command functions supported by PD60 RGB Series are given in the list below.

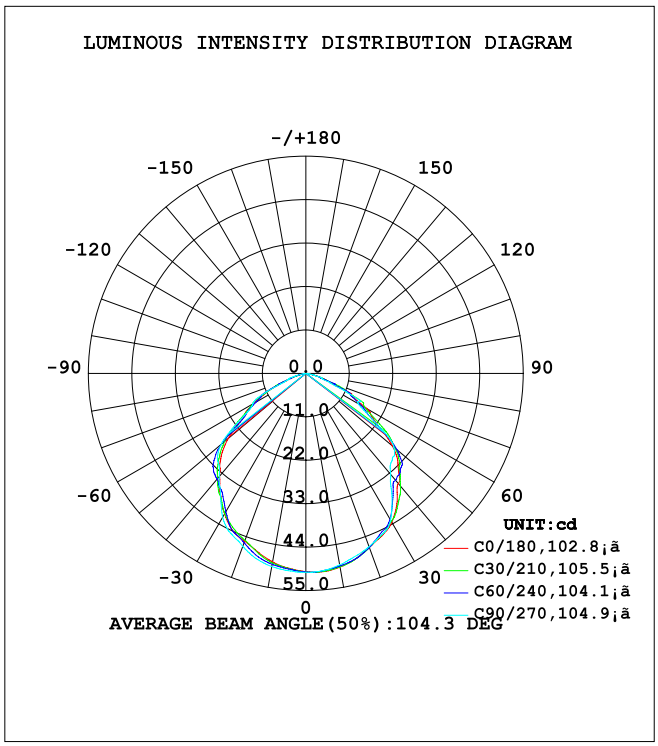
Device Management

	Get	Set
Device Info	✔	
DMX Start Address	✔	✔
Identify Device	✔	✔
Device Model Description	✔	
Device Label	✔	✔
Software Version Label	✔	
DMX Personality	✔	✔
DMX Personality Description	✔	
Device Hours	✔	
Lamp Hours	✔	
Device Power Cycles	✔	
Status Message	✔	
Queued Message	✔	
Status ID Description	✔	
Supported Parameters	✔	
Parameter Description	✔	
Factory Defaults		✔
Sensor Definition	✔	
Sensor Value	✔	
Record Sensor		✔
Reset Device		✔
Power State	✔	✔
Perform Self Test		✔
Self Test Description	✔	
Language	✔	

** 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.heraled.com website.*

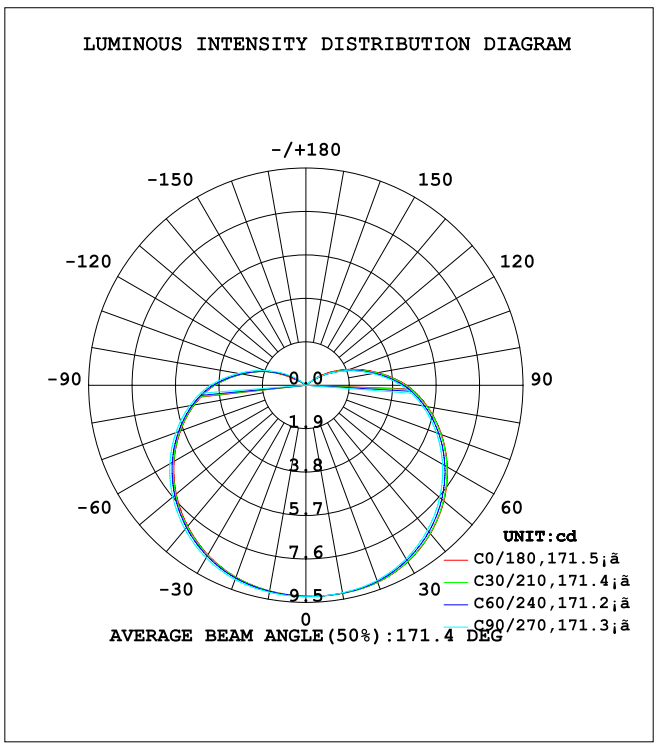
PD60 RGB Series Direct View

RGB



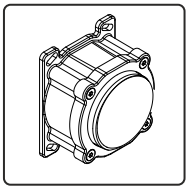
PD60 RGB Series Dome Diffused

RGB

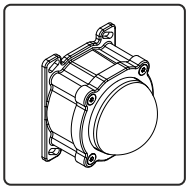


Please visit www.heraled.com for detailed information and laboratory reports.

Products

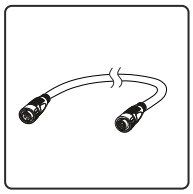


P01003085 PD60-RGB 3Ch. DMX Direct View Pixel Dot
P01004085 PD60S-RGB 3Ch. DMX Direct View Pixel Dot



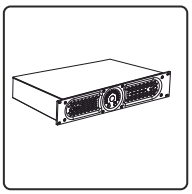
P01005085 PD60-RGB 3Ch. DMX Dome Pixel Dot
P01009085 PD60S-RGB 3Ch. DMX Dome Pixel Dot

Cable



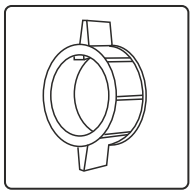
P20201-0.5 Push Lock Type 2+4 Pin 0.5M Extension Cable
P20201-0.75 Push Lock Type 2+4 Pin 0.75M Extension Cable
P20201-1 Push Lock Type 2+4 Pin 1M Extension Cable
P20201-1.5 Push Lock Type 2+4 Pin 1.5M Extension Cable
P20201-2 Push Lock Type 2+4 Pin 2M Extension Cable
P20201-2.5 Push Lock Type 2+4 Pin 2.5M Extension Cable
P20201-3 Push Lock Type 2+4 Pin 3M Extension Cable
P20201-3.5 Push Lock Type 2+4 Pin 3.5M Extension Cable
P20201-4 Push Lock Type 2+4 Pin 4M Extension Cable
P20201-5 Push Lock Type 2+4 Pin 5M Extension Cable
P20201-7.5 Push Lock Type 2+4 Pin 7.5M Extension Cable
P20201-10 Push Lock Type 2+4 Pin 10M Extension Cable
P20201-15 Push Lock Type 2+4 Pin 15M Extension Cable
P20201-20 Push Lock Type 2+4 Pin 20M Extension Cable

Power / Data Supplies



P08002 Power Pack 320 320W 2 Outputs Power Supply
P08003 Power Pack 500 500W 2 Outputs Power Supply
P08004 Power Pack 1000 1000W 8 Outputs Power Supply
P08013 Power Pack 2000 2000W 8 Outputs Power Supply

Accessories



P20203 Push Lock Type 2+4 Pin Female Plug Cap

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