

Date _____
 Company _____
 Project _____



Chronopix[®] is a brilliant direct view dot solution for media architectural façade applications and creating dynamic lighting effects. Fully customizable and controllable, Chronopix[®] offers a lengthier dot chain and spacing options, which give more freedom and flexibility in the project design. It is an excellent choice for variable creative design solutions especially for large scale surfaces, high rise buildings' facades. Chronopix[®] is highly durable and has a robust structure with its IP67 protection class and IK09 impact resistance (IK10 with dome option). The body consists of lower and plug-in upper modules, made of corrosion-resistant aluminium. Thanks to our new patented technology Locked Connection System[®] (LCS[®]) created by HERA LED engineers specifically for Chronopix[®], maintenance is more manageable in case of failure. The top cover is made of die-cast polycarbonate UV and impact resistant opal diffuser which provides uniform light distribution. Direct View or Diffused options are available depending on the project specifications. In addition, Chronopix[®] has an improved new smart Auto-Addressing technology developed by HERA LED. Chronopix[®] is available in various LED colors with 6 pcs LED: RGB, RGBW, RGBA, DW.

- Chronopix[®] provides compatible communication with other fixtures using standard DMX512 and RDM protocols.
- Chronopix[®] operates at 48V DC allowing the option of working with a longer dot chain.
- Up to 70 pcs of Chronopix[®] can be connected to the lightweight chain. Customizable pixel pitch is up to a maximum of 3 meters. Each Chronopix[®] is considered as 1 pixel. Leader Cable length can also be determined up to 100 meters.
- Addressing dots is very easy with our new smart Auto-Addressing technology. Each dot communicates with the dot in front and the consecutive dot in line, thereby renewing the address. In this way, you do not need to readdress when replacing a dot.
- Chronopix[®] is compatible with the RDM Monitoring feature, which enables remote monitoring by checking the system, relaying product information and reporting possible malfunctions and failure warning signals via email.
- Our new technology LCS[®] (Locked Connection System[®]) enables you to easily replace only the defective upper module of Chronopix[®] in the chain by hand without the need of a tool, in case of failure. There is no need to replace the entire chain, or entirely remove the dot, which proves to be difficult, time consuming and costly for large scale surfaces and high-rise structures.
- Chronopix[®] is resistant to impact, vibration and other harsh conditions, with its die-cast aluminium body and IP67 protection class & IK09 impact resistance (IK10 with dome option). It is designed to meet extremely difficult requirements of outdoor facade applications. Direct View and Diffused (Dome) cover options are available. Transparent and opaque top covers are resistant to UV and impact.
- Chronopix[®] is created in standard RAL 9005 code for body color. It can be produced in a special electrostatic powder paint code of your choice upon request. Additionally, Chronopix[®] can be produced with variable texture coatings for the featured projects.
- Chronopix[®] can be connected by cable as standard, or extruded aluminium cable hiding profile. The profile color will be the same as the fixture color - RAL code.

	RGB	RGBW	RGBA	DW
Output				
Light Source:	6pcs 3 in 1 Chip RGB LEDs	6pcs 4 in 1 Chip RGBW LEDs	6pcs 4 in 1 Chip RGBA LEDs	6pcs 2700K + 6pcs 6500K LEDs
Lumen Maintenance:	60.000 > hours L70 @ 50° C (full output)			
Color Range:	16.7 Million additive RGB colors	16.7 Million additive RGB colors, white CCT 6500K	4.29 Billion additive RGBA colors	Color temperatures ranging from 2700 K to 6500 K
Beam Angle:	Direct View: 105° Dome Diffuser:170°			
Luminous Flux:	Direct View: 62 lm Dome Diffuser :41 lm	Direct View: 105 lm Dome Diffuser: 72 lm	Direct View: 95 lm Dome Diffuser: 65 lm	Direct View: 103 lm Dome Diffuser: 68 lm
Luminous Intensity:	Direct View: 24 cd Dome Diffuser :10 cd	Direct View: 40 cd Dome Diffuser: 17 cd	Direct View: 36 cd Dome Diffuser: 15 cd	Direct View: 38 cd Dome Diffuser: 15 cd
Efficacy (lm/W):	Direct View: 26 lm/W Dome Diffuser :17 lm/W	Direct View: 44 lm/W Dome Diffuser: 30 lm/W	Direct View: 40 lm/W Dome Diffuser: 27 lm/W	Direct View: 43 lm/W Dome Diffuser: 28 lm/W

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

Control & Programming

Pixel Pitch:	Customizable pixel-pitch (minimum pixel pitch:15cm maximum pixel pitch: 300cm)		
Color Resolution:	3 x 16-bit (Gamma correction)	4 x 16-bit (Gamma correction)	4 x 16-bit (Gamma correction)
Addressing:	Auto-Addressing and RDM (Each dot communicates with the dot in front and the consecutive dot in line, to renew the address) You only need to address the first product in the chain. Other products will automatically receive addresses consecutively.		
Monitoring:	Voltage Monitoring, Temperature Monitoring, Status Monitoring, Power Cycle Monitoring, Lumen-Maintenance Life Monitoring		
PWM Frequency:	1,600Hz flicker free dimming to 0.1%		
DMX Compliance:	USITT DMX512-1990		
RDM Compliance:	ANSI/ESTA E1.20-2010		

Electrical

Operating Voltage:	48V DC
Power Consumption:	2,4W Maximum per dot at full output, steady state
Maximum in Chain:	Number of Dots in a chain max. 70 pcs.
Connections:	Leader Cable Push Lock Type 2+4 Pin Waterproof Connector Patented LCS [®] (Locked Connection System [®]) technology with each Dot 2+6 Pin Connection

Physical

Housing:	Die-Cast Aluminium
Front Material:	Die-Cast Polycarbonate UV and impact resistant opal diffuser
Cable Material:	HFFR (Halogen Free Flame Retardant) Multicore Cable
Cable Hiding Profile	Extruded Aluminium
Hardware:	Stainless Steel
Gasket:	Silicon
Surface Finish:	RAL 9005 Electrostatically polyester powder coat (standard) or Custom Any RAL (optional) Custom Any Water Transfer Printing Film Application (optional)

Measurements:

Weight:	0.250 kg (0.51lb)
Dimensions: (H x W x D)	Direct View: 61x112x40,7mm 2,4x4,4x1,6in Dome Diffuser: 61x112x59mm 2,4x4,4x2,3in

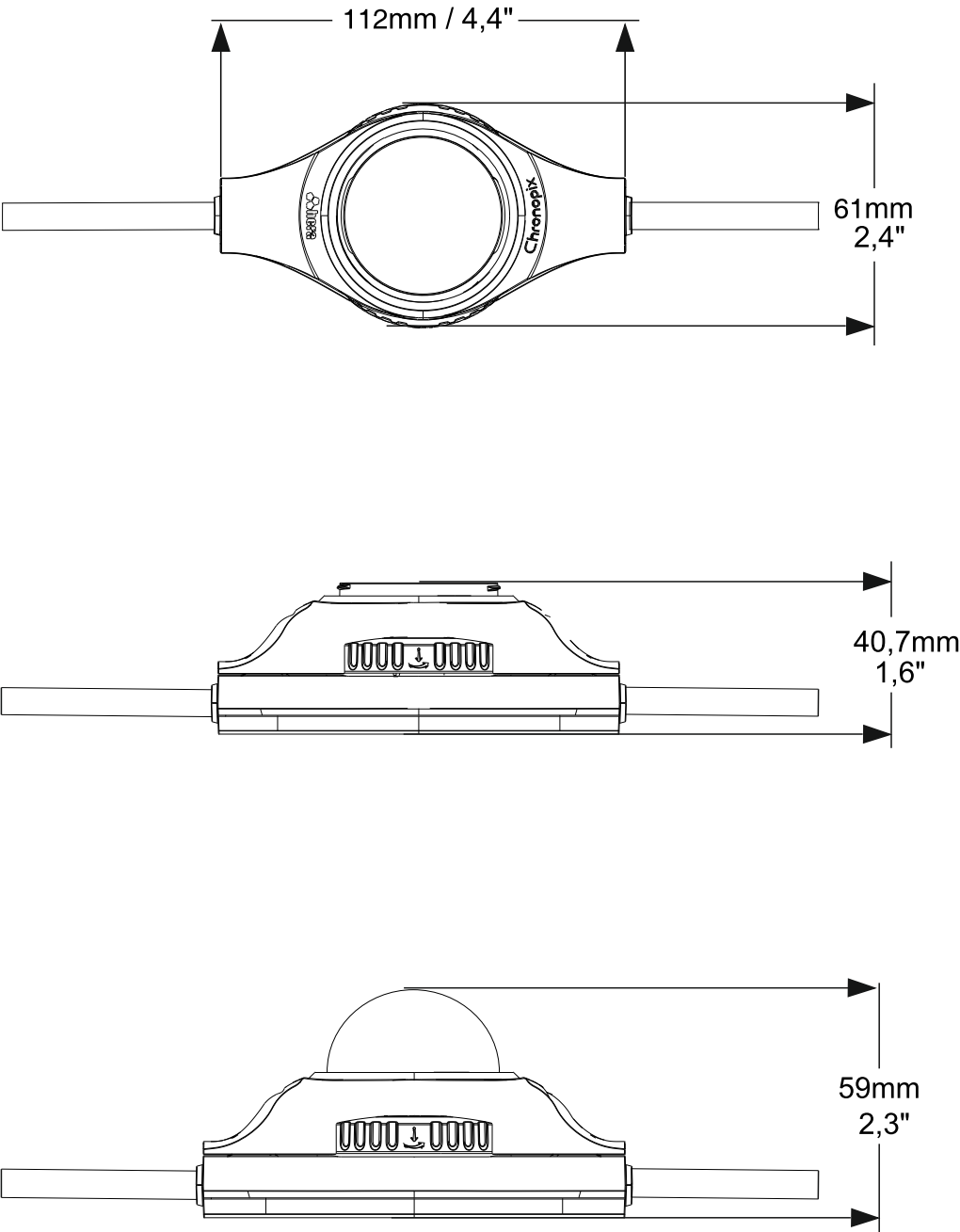
Environmental

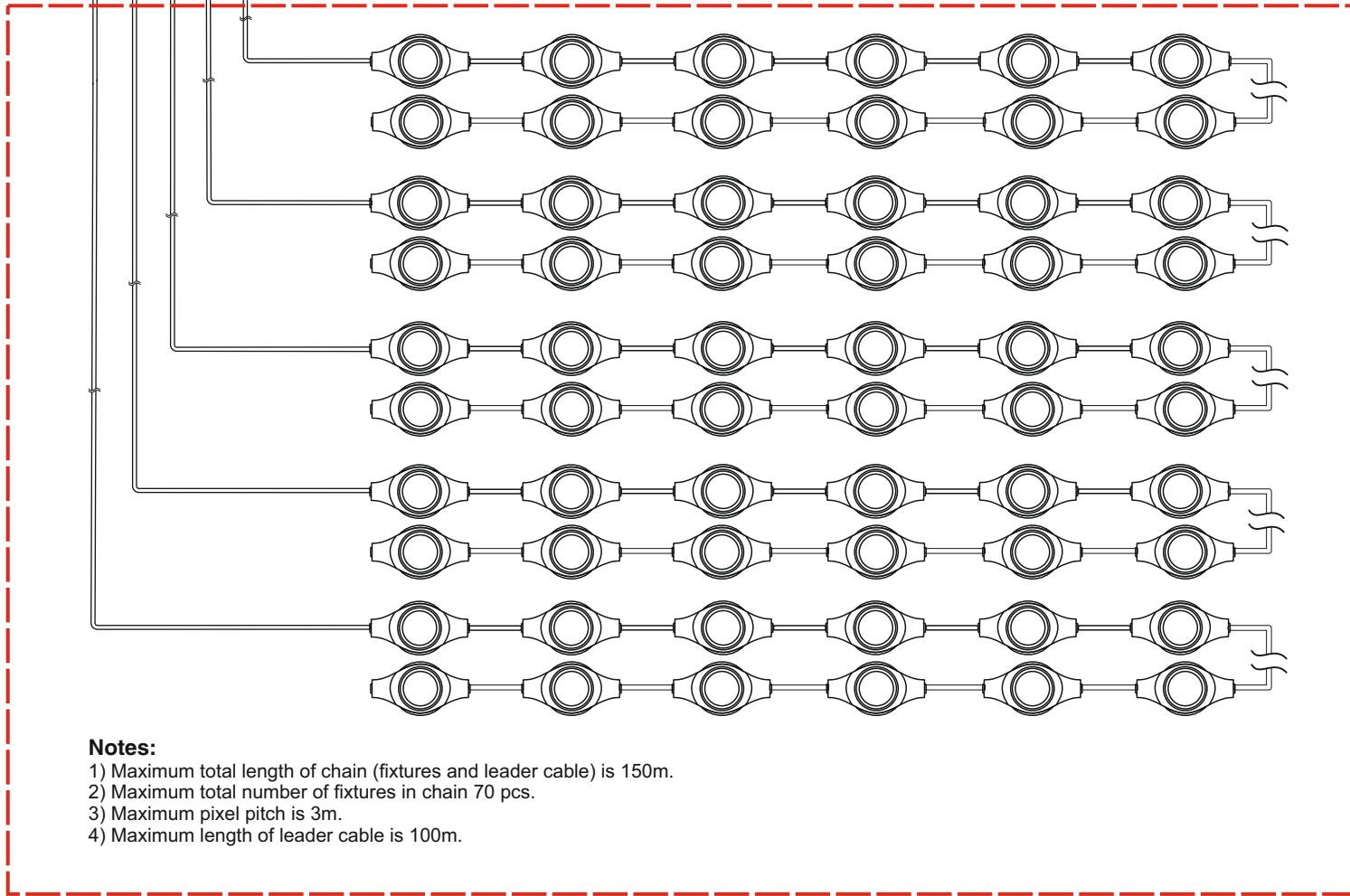
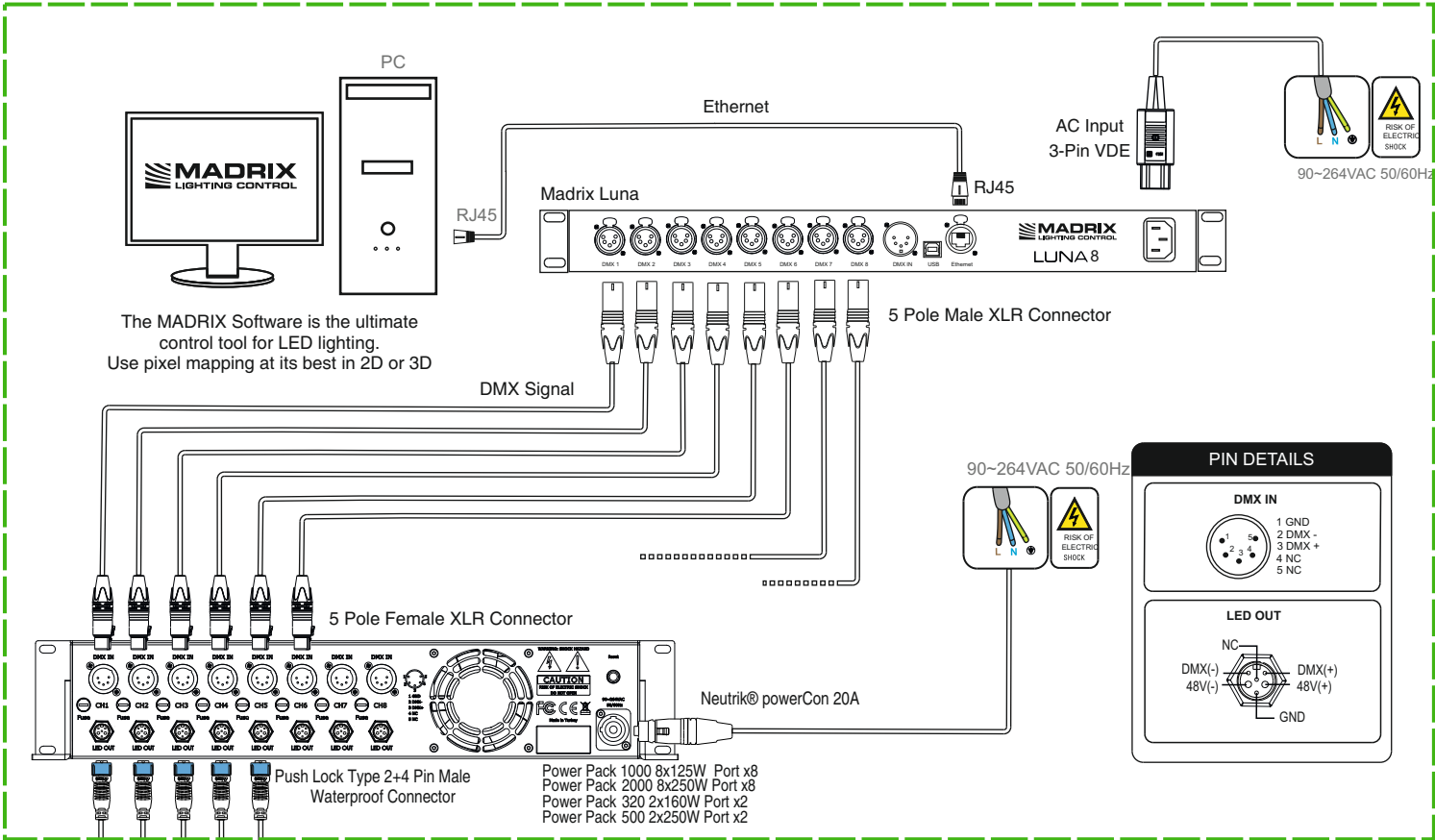
Storage Temperature:	-40°C - 85°C - (-40°F - 185°F)
Start-up Temperature:	-25°C - 50°C - (-13°F - 122°F)
Operating Temperature:	-40°C - 50°C - (-40°F - 122°F)
Thermal Protection:	Automatic overtemperature protection
Cooling:	Cooling by free air convection
Vibration Resistance:	Complies with ANSI C136.31-2010
Corrosion Resistance:	Complies with ASTM B117 standard
Ingress Protection Rating:	IP67
Impact Resistance Rating:	IK 09 (IK10 with dome installed)
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

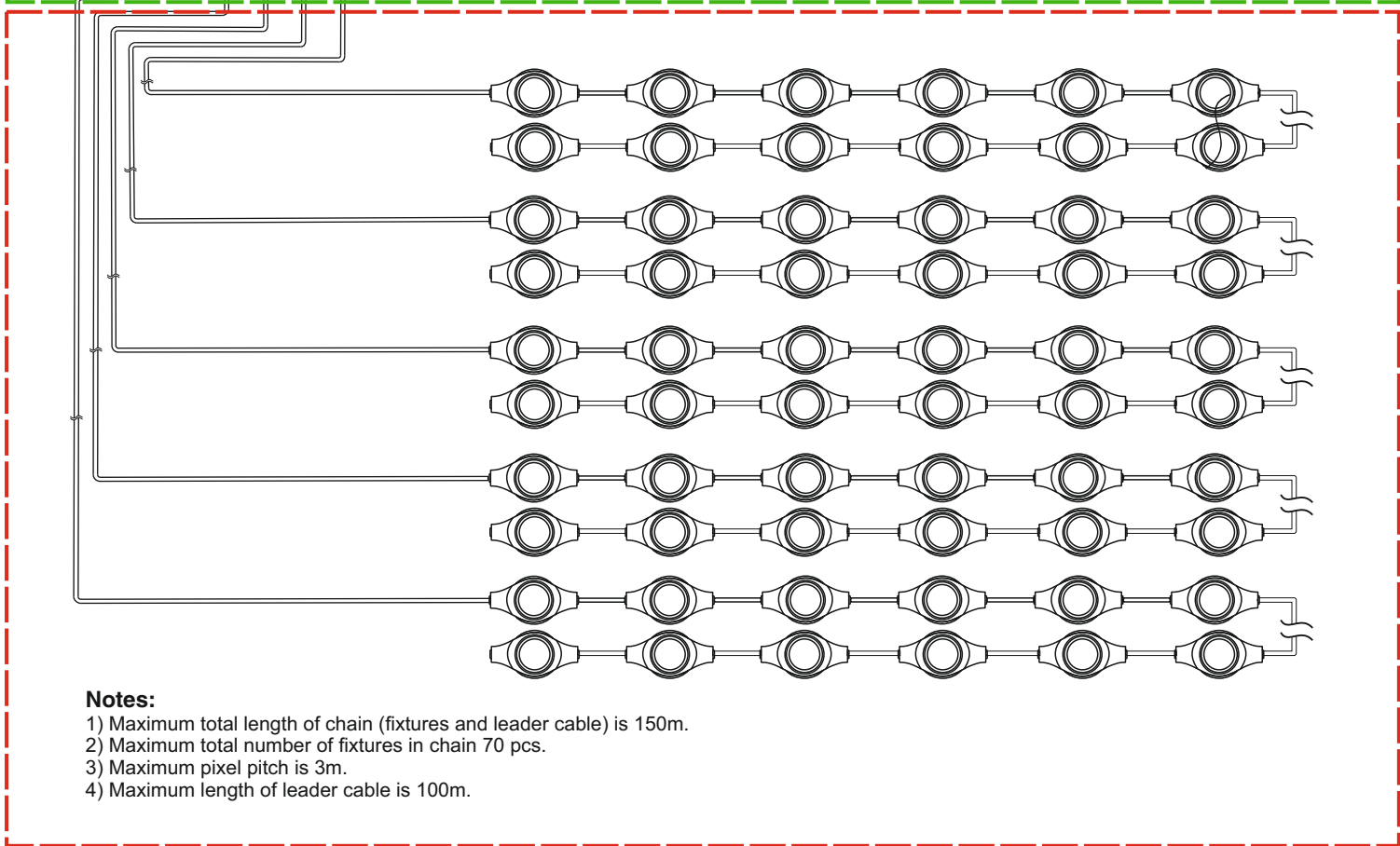
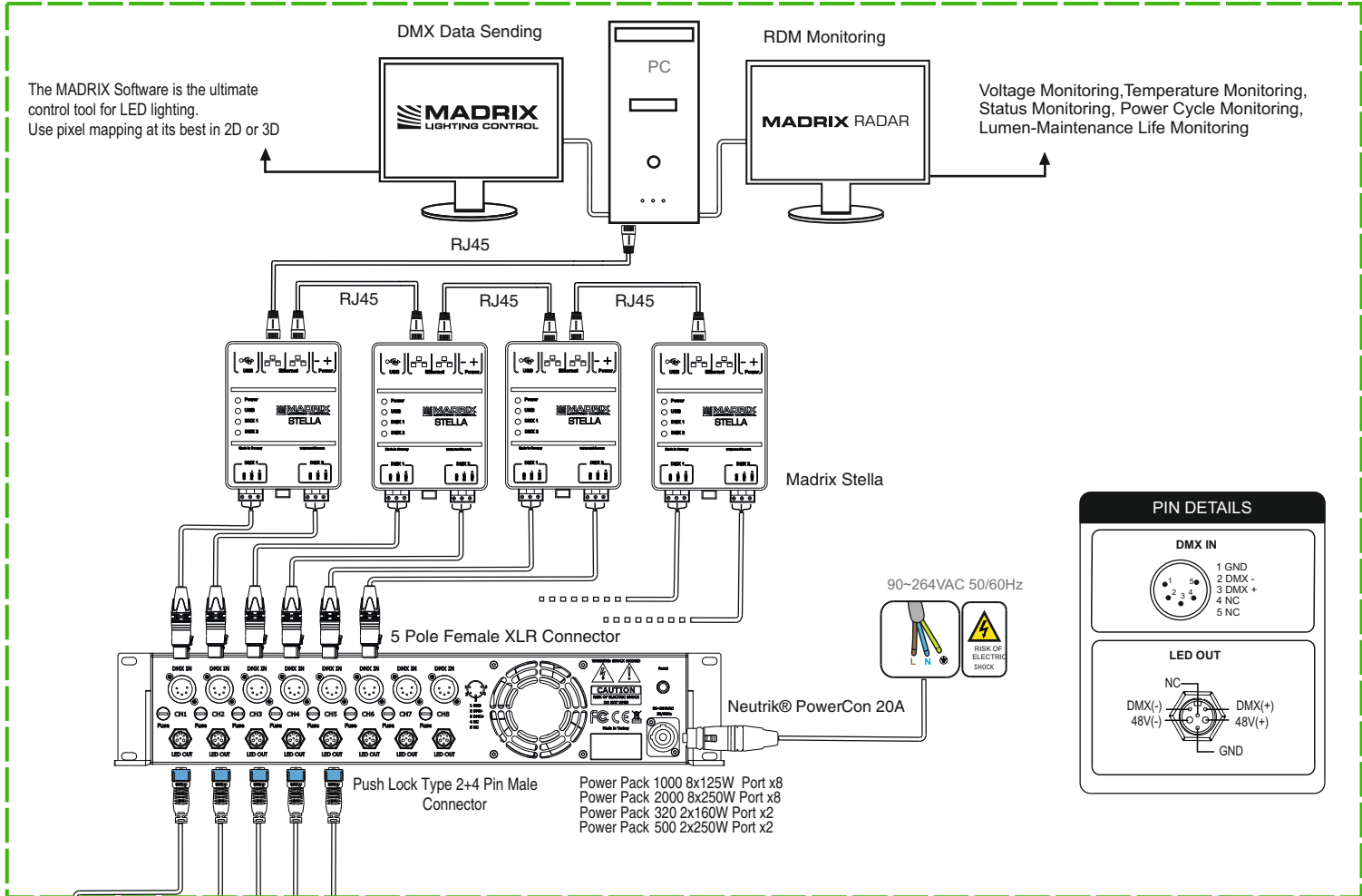
EU Safety:	EN 60598-1, EN 60598-2-3, EN 62471, EN 60950-1, EN 60950-22, EN 60529, EN 62262
EU EMC:	EN 55024, EN 55032, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8
US Safety:	UL 1598, UL 60950-1, UL 60950-22
US EMC:	FCC Part 15 Class A
Warranty:	5-year Limited Warranty





- Notes:**
- 1) Maximum total length of chain (fixtures and leader cable) is 150m.
 - 2) Maximum total number of fixtures in chain 70 pcs.
 - 3) Maximum pixel pitch is 3m.
 - 4) Maximum length of leader cable is 100m.

Indoor Zone



Outdoor Zone

RDM Explanation

Chronopix® 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 Chronopix® Series are given in the list below.

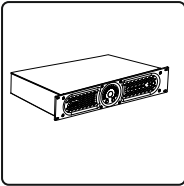
Device Management	Get	Set
Device Info	✓	
DMX Start Address	✓	✓
Identify Device	✓	✓
Device Model Description	✓	
Device Label	✓	✓
Software Version Label	✓	
DMX Personality	✓	✓
DMX Personality Description	✓	
Device Hours	✓	
Lamp Hours	✓	
Device Power Cycles	✓	
Status Message	✓	
Queued Message	✓	
Status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

Related 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



**HERA EĞLENCE VE MİMARİ AYDINLATMA
SİSTEMLERİ İÇ VE DIŞ TİCARET A.Ş.**

Güllübağlar Mah.Firketeci Sok. No.2

34096 Pendik / İstanbul / Türkiye

P. +90 216 307 79 00

www.heraled.com info@heraled.com

