hera
entertainment & architecture lighting

PROCOLOR® AC
series

All Can Be Overcome By LIGHT

Today, there are many fixtures available that serve a variety of purposes, and floodlights are one of them. Floodlights are great lighting fixtures that emit broad beams of light. As the name suggests, flood lights are used to flood an area with light and provides the best way to provide an enormous amount of non-natural light to a wide area.

LED floodlights are highly energy efficient and have a higher lumen per watt output than any other conventional lighting system. They are used for many purposes and allow a range of lighting techniques.

Floodlight fixtures come in all sorts of sizes. They are great to illuminate dark areas for comfort, security, show and architectural lighting purposes.

Procolor® Series is a powerful and outdoor rated floodlight with high lumen output and excellent color consistency.

Procolor® floodlights are an excellent solution for accent lighting, spot lighting, wall washing and are widely used in illuminating historical places, monuments, also smaller structures in parks and other areas.

Technology That Pushes Limits

Technology for Innovators

RDM Monitoring

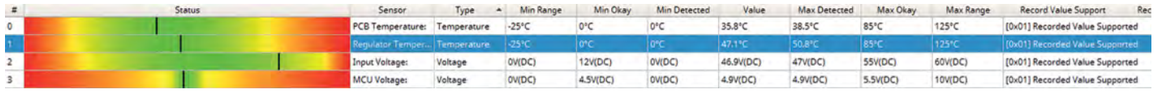
The lighting controls industry has evolved in favour of RDM. DMX512, the control standard across entertainment & architecture lighting controls, now offers two-way communications for configuration, monitoring and system setup via RDM protocol.
RDM is a killer way to work with your fixtures that are in the air while you are on the ground.

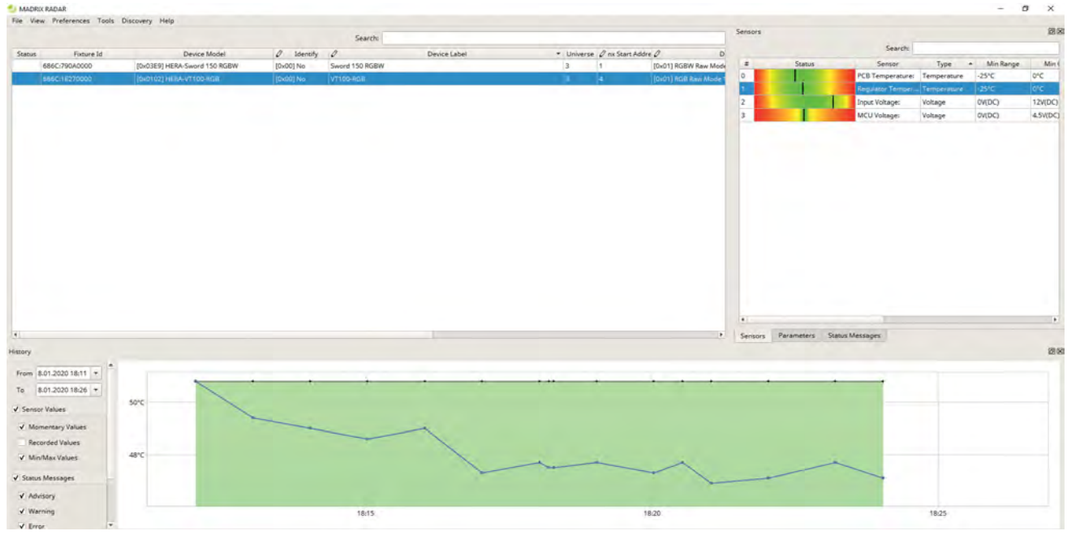
Did a stagehand or technician address 2 lights to the same address? Are some or all of your fixtures in the wrong mode? With RDM, you can change any of these things and more. Depending on your RDM controller, you either can work with 1 fixture at a time, or make changes to a number of fixtures very quickly.

In days before RDM, accessing functions and diagnostics of your fixture like the DMX address, control mode, lamp hour, and fan speed meant you had to be next to the fixture whether it was on the ground or 200 meters up in the air!
The RDM Protocol provides configuration and feedback from architecture lighting, theatre lighting systems, live events, and more. It works by sending pulses of data down the DMX line in-between the normal DMX commands. RDM actually communicates down the same lines as your DMX.

Many consoles and devices allow you to scan for RDM on an as-needed basis, or you can leave your RDM functionality on full-time. Hera LED fixtures, power supplies and splitters are completely compatible and compliant with RDM and have RDM monitoring features via Madrix controllers and software.

Madrix Radar Software





Hera LED's DMX lighting fixtures are also equipped with Remote Device Management. It is a two-way communication for receiving instructions as well as sending out feedback.

When devices report back data, you gain access to a whole new level of available information, insights, and control. MADRIX® RADAR is the complete toolbox to make the most of this data; automatically and efficiently.

With MADRIX® RADAR, one can supervise all lighting fixtures in a single software and handle large amounts of RDM devices. It is a new kind of application that opens up entirely new possibilities for you and your clients. MADRIX® RADAR includes automatic fixture patching, fully automatic 24/7 device monitoring, automatic e-mail notifications, and much more. This new software will allow you to configure settings remotely in an easy manner, monitor devices automatically for you, quickly see the results in graphical overviews at a single glance. That means that your setup and maintenance processes are much faster, much easier, and much more cost-efficient than ever before.

You can build a database of past sensor data and see the progression of device parameters, such as temperature and operating hours and exchange devices that are likely to fail soon. This way your maintenance costs are much more predictable.

Visualise how your system works.
Provide unparalleled support for each installation.
Start offering all-new benefits to your clients.
Unleash the full potential of RDM.

UNLEASH THE FULL POTENTIAL OF RDM

TRANSFORM HOW YOU WORK WITH LUMINARIES. EASILY CONFIGURE SETTING REMOTELY. LET THE SOFTWARE MONITOR DEVICES AUTOMATICALLY FOR YOU

AUTOMATIC E-MAIL NOTIFICATIONS

PROVIDE UNPARALLELED SUPPORT FOR EACH INSTALLATION. START OFFERING ALL NEW BENEFITS TO YOUR CLIENTS

FULLY AUTOMATIC 24/7 DEVICE MONITORING

BUILD A DATABASE OF PAST SENSOR DATA AND SEE THE PROGRESS ON OF DEVICE PARAMETERS. SUCH AS TEMPERATURE AND OPERATING HOURS

INTROCUCING MADRIX RADAR

FULLY AUTOMATIC 24/DEVICE MONITORING. AUTOMATIC E-MAIL NOTIFICATIONS. UNLEASH. THE FUUL POTENTIAL OF RDM

Continuous Monitoring on Sensor Data

Let the software monitor all of your devices 365 days a year, 7 days a week, 24 hours a day. It does so fully automatically without any required supervision.

MADRIX® RADAR checks the status of devices, such as voltage, temperature, status, power cycle, life cycle, and more. Graphical overviews allow you to quickly see if a sensor value is within its specified limits or out of its valid range.

Simplified Fixture Addressing by Addressing

Easily set up your RDM devices remotely. You can perform any configuration conveniently from your computer; instead of requiring direct access to the devices.

Fast Workflow with Powerful Automation

Drastically reduce the time-consuming process of configuring a large number of devices. Use the built-in search function and change settings of a single device or select several entries to quickly make multiple changes at once.

Let the software automatically patch all fixtures in a single DMX universe or across the entire range of addresses. Simply use drag and drop to put them in the correct order.

Fixture Discovery and Full Support on RDM

Use the built-in highlight mode to let a fixture flash with full-on white for quick identification of fixtures. See if devices correctly responds to DMX commands.

MADRIX® RADAR supports all RDM parameters detailed in the official protocol specifications of ANSI E1.20 and ANSI E1.37-1 over Art-Net.

Automatic Notifications and Event Reports

In addition to merely requesting and receiving information, the software will apply its own logical routines in order to create events for you. By probing and validating incoming data, MADRIX® RADAR provides actionable reports for you.

If MADRIX® RADAR detects any irregularities, you can receive automatic status updates within the software, run a PowerShell script, or let the system conveniently send you e-mails.

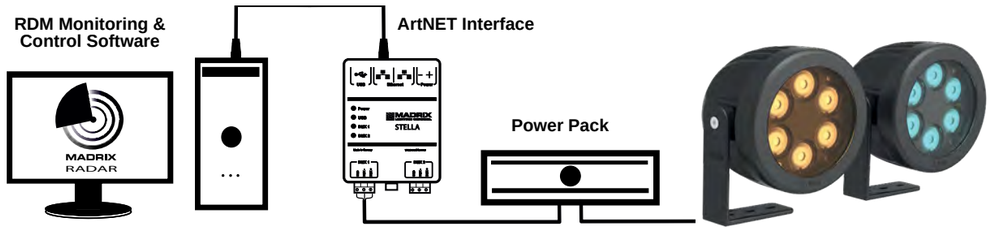
Invaluable Data History

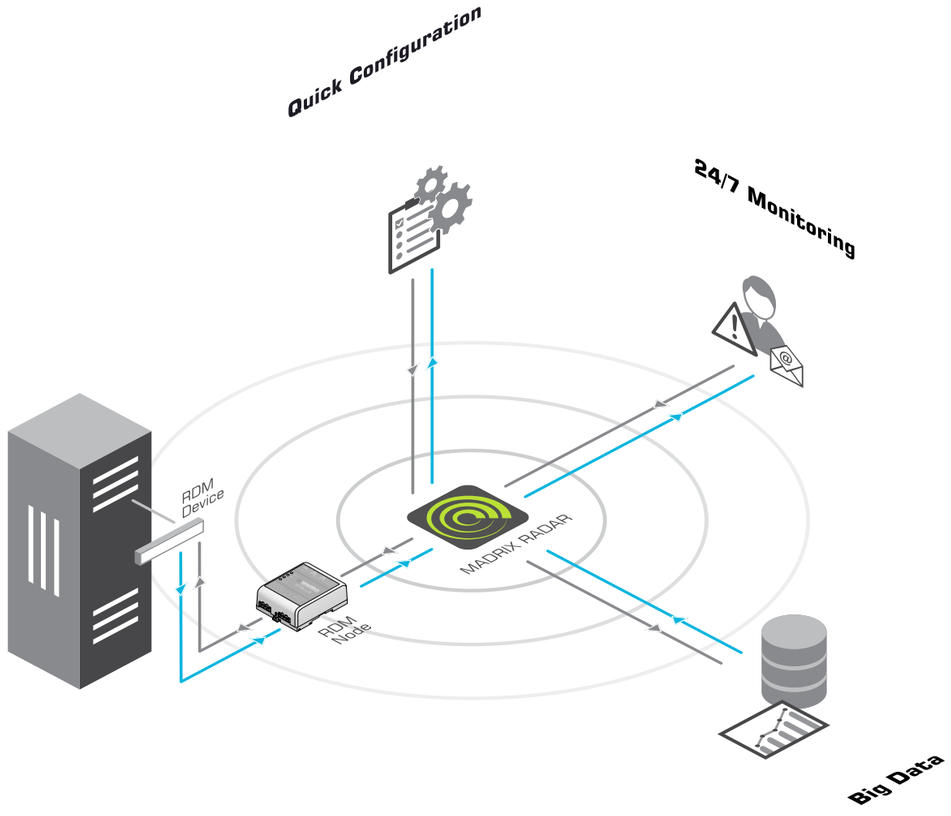
Leverage the valuable information that a device's data history can provide. See individual time series graphically over time. Access data records to see the progression, and find trend lines.

Smart Data Management

Present comprehensive statistics to your clients based on the data that MADRIX® RADAR is collecting. Replace failing devices and avoid replacing the ones that need no immediate replacement. You can freely enable or disable if data points are recorded, for exampl

Setup & Configuration





With License Model Integra
Flexibly Into Your Projects

The MADRIX® System takes advantage of high-quality software and high-quality hardware.

	MADRIX® RDM Nodes	Third-Party RDM Nodes & MADRIX® RADAR License			
			MADRIX® RADAR fusion small	MADRIX® RADAR fusion medium	MADRIX® RADAR fusion large
RDM Devices/Sub-Devices	Automatically unlocks for all connected RDM devices/sub-devices.	2	32	256	2,048
Management	Yes	Yes	Yes	Yes	Yes
Configuration	Yes	Yes	Yes	Yes	Yes
Monitoring	Yes	Yes	Yes	Yes	Yes

MADRIX RADAR is an independent software that allows you to choose compatible RDM nodes. You gain the enormous advantage with MADRIX RDM nodes of running a fully integrated system. MADRIXhardware processes RDM data packages in a way that does not result in interference with DMX data packages during full and live operation, which could lead to visual flickering or other signal interruptions.

MADRIX interfaces manage these data streams highly efficiently and intelligently.

MAKE A WORLD OF DIFFERENCE

Procolor® series shows off even the most intricate details of the architecture. It alights the archictecture without disturbing any settings on the premise or the city surroundings. Procolors make a real feast of light with their strong illumination capability and various models to choose from.
Series is mainly used to light up buildings, bridges, historical monuments and landscapes.

Our Concern is Quality not Quantity

Consistent and exact colors, special effects and best light management in every possible application have become a vital part of floodlighting. Procolor series' customized and standard products will result in highly efficient and quality floodlighting.

Hera LED well knows the growing expectations of its customers when it comes to image quality, reliability, and cost. We will provide you with all you need, to illuminate, guide, reflect, and alter light for a variety of floodlighting applications.

Hera LED all in- house manufactured design for Procolor Series can be easily used in commercial and government buildings, hotels, historical monuments, museums, landscapes and many more different facade installations as requested.

Certification

Product complies with EU Safety regulations of EN 60598-1, EN 60598-2-3, EN 62471, EN 60950-1, EN 60950-22, EN 60529, EN 62262.

Product complies with EU EMC standards of EN 55024, EN 55032, EN 61000-4-3, EN 61000-4-4, EN 61000-4-6, EN 61000-4-8.

Product complies with US Safety standards of UL 1598, UL 60950-1, UL 60950-22 and US EMC standard of FCC Part 15 Class A.

We fully trust in our products and give 5-year warranty for all our product lines, subject to conditions given in the warranty agreement.

Reliability in Numbers

Procolors are in IP67 - IK09 protection class and with their robust and durable structure, are designed to meet extremely difficult requirements of outdoor facade applications. Procolors are resistant to impact, vibration and other harsh conditions,with their aluminum housing and special filler materials. They have passed Verification and Reliability tests.

Our conventional fixtures stand the test of time, withstand even the harshest conditions, including dirty power, high-vibration, extreme temperatures and hazardous or volatile outdoor environments.

Facade lighting compliments the exterior. In architecture, the facade of a building is often the most important from a design standpoint, as it sets the tone for the rest of the building. With Procolors we set the most beautiful tones.

PROCOLOR® AC
series

Floodlights have beam spread feature. It can illuminate a larger amount of space with the same wattage and lumen output.

Procolor®AC Series is a powerful and outdoor rated floodlight with high lumen output and an excellent color consistency. Procolor®AC floodlights are an excellent solution for accent lighting, spot lighting, wall washing, and are widely used in illuminating historical places, monuments in parks and areas. Operating voltage is in 90 ~ 264VAC 50/60HZ universal voltage range.
Procolor®AC Series is produced in 2 types, Procolor® AC 60 RGBW and Procolor® AC 60 DW.

RGBW option has 16.7 Million additive RGB colors and white CCT 6500K. DW option has 6pcs 2700K LEDs + 6pcs 6500K LEDs.

Autowhite algorithm enable auto control of the white LED by 3-channel RGB. This enables significant reduction in number of channels and universes and optimises cost of the project with same color output and better brightness. Brightness of the White is calculated with an algorithm, from brightness of R, G and Blue. This increases brightness of Red, Green and Blue as well as the White.

This simple yet useful algorithm combined with our cutting-edge facade lighting solutions, turn your building into a real landmark. We can illuminate architectural highlights and even design fascinating color and light effects on exterior facades to attract great attention.

PROCOLOR® AC
series

Procolor®AC family is made of aluminum cast material like the other Procolor series. Aluminum both gives robustness to the product as well as having a good cooling coefficient. It absorbs the heat and dissipates it through advanced cooling channels.

Procolor®AC family is resistant to cold, snow, rain, dust and sand. It can keep on working under all harsh conditions. Moisture is emitted through specially designed valves within the product. Newly designed cable fitting for Procolors are IP68 class and can be relied on completely.

All Procolor®AC can be adjusted and fixed to the product assembly area with 6 degree ascending angles.

The silicon gasket used within the device, complies with all European standards and provides complete insulation.

CE FC RoHS compliant DMX RDM RDM MONITORING 90~264 VAC Universal AC Input

Procolor®60 DC RGBW
Procolor®60 DC DW

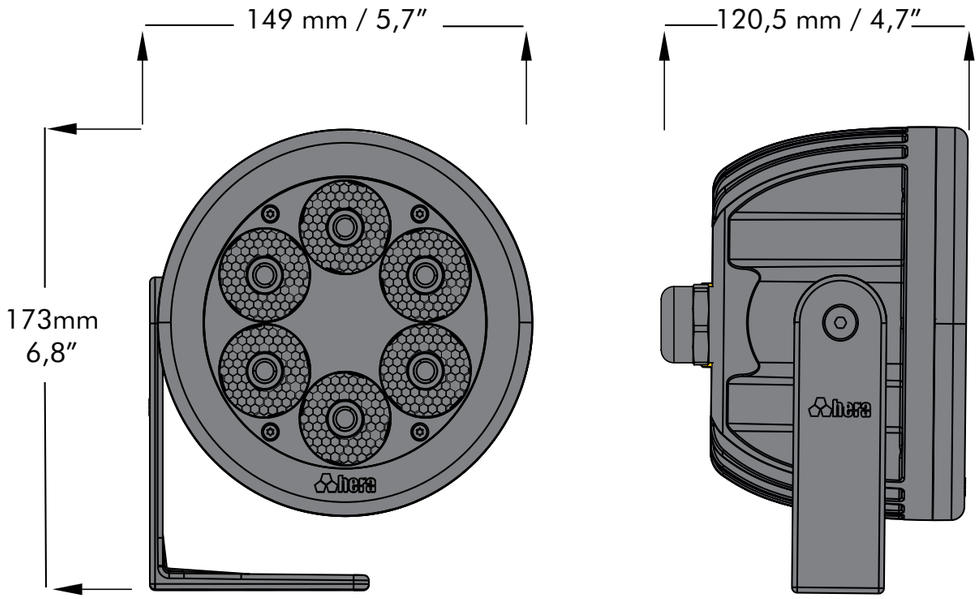
Procolor®AC Connection

In Procolor®AC fixtures, there is a single cable out and no connectors. Cable carries energy (220 V - phase, neutral, earth) and DMX signals (DMX+, DMX-, ground GND) together. Fixtures are connected in cascade via this single cable.

An intelligent, resource-saving combination of flood lighting meets functional and aesthetic requirements, creates new urban spaces and lends a unique quality to architecture at night.

PROCOLOR®
Family Size

PROCOLOR® AC 60RGBW
PROCOLOR® AC 60DW



Procolor®60 AC Series
Specification

	PROCOLOR® AC 60 RGBW	PROCOLOR® AC 60 DW
Output		
Light Source:	6 High Power 4 in 1 Chip RGBW LEDs	24 High Power LEDs (12x 2700K, 12x 6500K)
Lumen Maintenance:	60.000 > hours L70 @ 50° C (full output)	
Color Range:	16.7 Million additive RGB colors, white CCT 6500K	Color temperatures ranging from 2700 K to 6500 K
Ra(CRI):	RGBW Full on 81CRI	DW Full on 74CRI
Beam Angle:	10° / 25° / 35°	
Luminous Flux:	1564 lm	2160 lm
Luminous Intensity:	9411 cd	13853 cd
Efficacy (lm/W):	50,7 lm/W	68 lm/W

*The values above are measured data in RGBW-DW "Full ON" mode and using a 10°lens.
Please see IES/LTD files and photometric measurements for different lens beam angles.
*Photometric performance is measured in compliance with IESNA LM 79-08
The dynamic power-boost feature enables the light to display the maximum brightness at all times and intensify non-white colors .

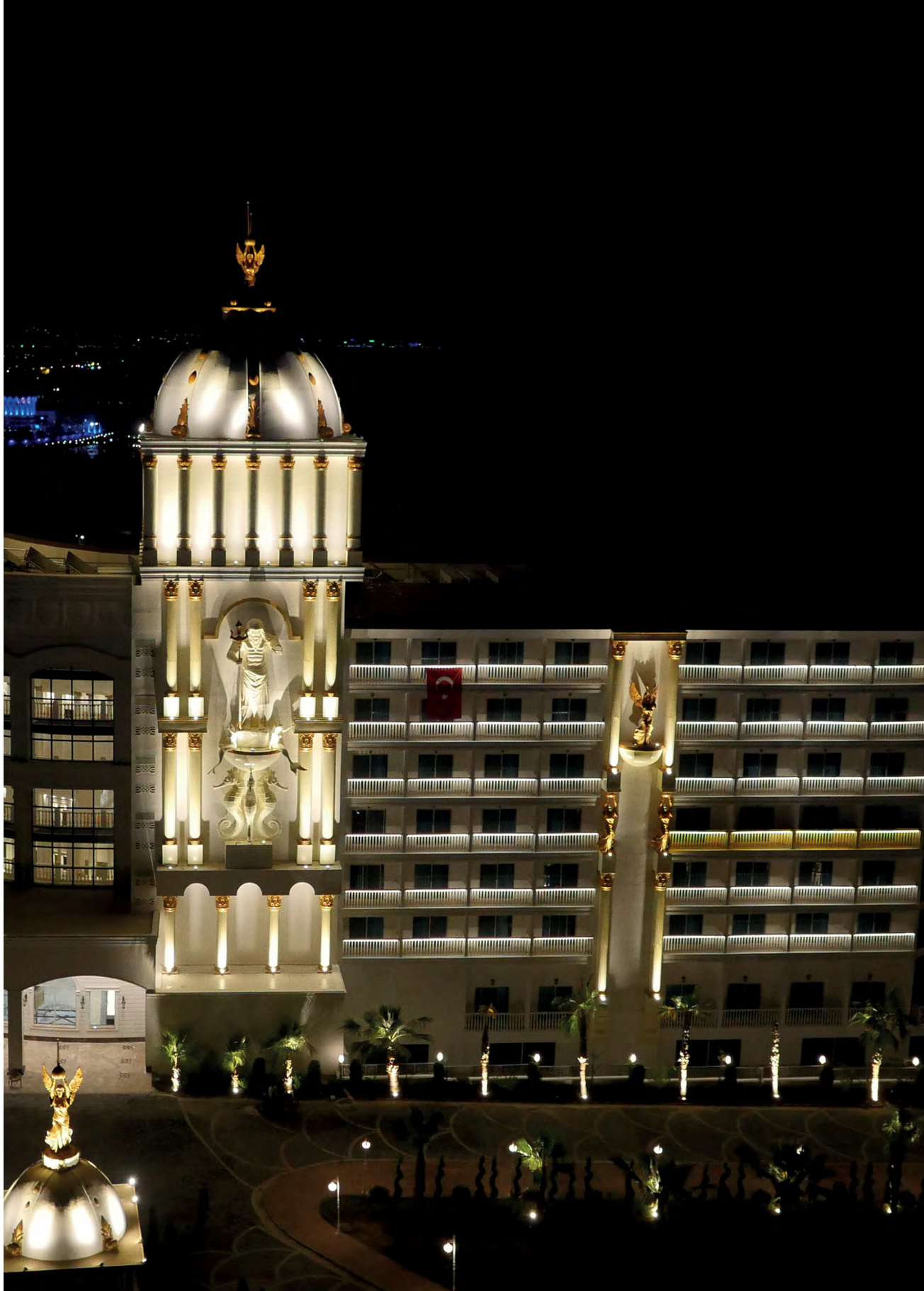
Control & Programming		
Color Resolution:	4 x 14-bit (Gamma correction)	2 x 14-bit (Gamma correction)
Addressing:	RDM (Group of Remote Addressable Systems)	
Monitoring:	Voltage Monitoring,Temperature Monitoring, Status Monitoring,Power Cycle Monitoring, Lumen-Maintenance Life Monitoring	
PWM Frequency:	1,600Hz flicker free dimming to 0.1%	
DMX Compliance:	USITT DMX512-1990	
RDM Compliance:	ANSI/ESTA E1.20-2010	
Electrical		
Operating Voltage:	90-264 VAC	
Power Consumption:	40W	35W
Connections:	Wire	
Physical		
Housing:	Die-Cast Aluminium	
Front Material:	Clear Tempered Glass	
Installation Brackets	Die-Cast Aluminium 6° Multi-positional, locking hinges	
Hardware:	Stainless Steel	
Gasket:	Silicon	
Surface Finish:	RAL 9005 Electrostatically polyester powder coat (standard) or Custom Any RAL (optional)	
Measurements:		
Weight:	1,8Kg (3,96lb)	1,8Kg (3,96lb)
Dimensions: (H x W x D)	173x149x120,5mm 6,8x5,7x4,7in	173x149x120,5mm 6,8x5,7x4,7in
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:	IK08	
Humidity (max.):	0 to 98%, non-condensing	
Certification		
EU Safety:	EN 60598-1, EN 60598-2-5, EN 62471, EN 60529, EN 62262	
EU EMC:	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5 EN 61000-4-6, EN 61000-4-8, EN 61000-4-11	
US Safety:	UL 1598	
US EMC:	FCC Part 15 Class A	
Warranty:	5-year Limited Warranty	

Procolor® AC Series

Fixtures

P03004101 Procolor®AC 60RGBW 90~264VAC Floodlight Narrow Beam 8°
P03004102 Procolor®AC 60RGBW 90~264VAC Floodlight Medium Beam 30°
P03004103 Procolor®AC 60RGBW 90~264VAC Floodlight Wide Beam 45°

P03004121 Procolor®AC 60DW 90~264VAC Floodlight Narrow Beam 8°
P03004122 Procolor®AC 60DW 90~264VAC Floodlight Medium Beam 30°
P03004123 Procolor®AC 60DW 90~264VAC Floodlight Wide Beam 45°



Reference Name: Litore Resort Hotel
Location: Antalya / Turkey
Date: 2015

Litore Resort Hotel is a brilliant hotel where everything is planned exclusively for guests with a magnificient view of the Mediterranean. You start the day with a wonderful sunrise and end the day with a wonderful facade lighting by Hera Led. This project has become a rising star among all hospitality projects in Antalya.

Reference Name: Galeri Resort
Location: Antalya / Turkey
Date: 2013

You will feel yourself as if you are in a palace with our facade lighting application in this project. Balanced combination of colors and simple white, gives your soul both joy and peace. You will feel presence of nature colors while resting your soul. This festival of light illuminates all visitors' days. We made it sparkle, you enjoy …

Reference Name: Sui OZ Hotel
Location: Antalya / Turkey
Date: 2015

Oz Hotel Sui is paradise of your dreams. It intersects the unique blue and green of Alanya. The hotel's architecture has been committed to colors of nature by Hera Led facade lighting and aimed to be eye-catching project while emphasizing naturalness. This hotel has attracted the attention of all local and foreign tourists and impresses all who saw the project.

Reference Name: Side Premium Hotel
Location: Antalya / Turkey
Date: 2015

Side Premium Hotel is like a paradise between the blue and green nature of Side. Hera LED manufactured and fixed a complete line of building exterior lighting that switched hotel's business and works with a vital promotional effect. We made a notable landmark through illumination, and Side Premium gleams like a sparkling star in Antalya's spectacular night-scape.

HERA EGLENCE VE MiMARI AYDINLATMA SiSTEMLERi A.S
Gullubaglar Mah. Kahramanlar Cad. No:3-1
34906 Pendik / Istanbul / Turkey
+90 216 307 79 00
+90 216 307 79 02

www.heraled.com info@heraled.com