APEIRON A1110





# Apeiron A1110

# **LED Recessed Light for Marine & Transportation Lighting**

#### **PRODUCT HIGHLIGHTS**

- 4.5 Watts
- 9-30V DC Input
- 0 to 100% Dimming
- · Active Thermal Management
- 3" Diameter
- Stainless Steel Construction
- Exterior Rated
- Multiplex Compatible

#### **TYPICAL APPLICATIONS**

- Marine / RV General Lighting
- Transit / Rail General Lighting
- Specialty Vehicle Lighting

# **SPECIFICATIONS**

#### SUITABLE ENVIRONMENTS







Damp

## LED COLORS Cool White

Neutral White

# Warm White

### **BEZEL FINISHES**

Polished Chrome Polished Gold



Powder Coated:

#### Brushed Nickel

# **Features**

#### **■ ADVANCED OPTICAL SYSTEM**

120° full angle. Even light, no LED "dots" or pixilation.

#### ■ 0 TO 100% DIGITAL DIMMING

Connection with i2Systems LightLink Series allows simple and seamless integration to most of today's conventional dimming systems.

#### ■ RUGGED DESIGN

Stainless steel / anodized aluminum construction, sealed design, and electronic regulation to the LED source ensure product longevity.

#### ■ NO HEAT OR UV IN THE LIGHT BEAM

With no heat in the light beam, the fixture lens remains much cooler than halogen sources, allowing safe and 'burn free' operation. In addition, no UV means reduced risk of fading or deteriorating products or artifacts on display.

#### **■ STAINLESS STEEL TRIM, WITH PVD**

Round, square, square/square, double or triple, five finish options. Physical Vapor Deposition (PVD) coating provides a very durable surface finish which will not tarnish or discolor.

#### **■ SPRING CLIP MOUNTING**

Spring clip mounting offers simple installation while ensuring a secure fit when installed in dynamic applications.

#### BEZEL SHAPES















#### BEAM ANGLES



# CERTIFICATIONS









# **Exclusive Technology**

#### **■ ACTIVE THERMAL MANAGEMENT**

Active Thermal Management (ATM) continuously monitors, and when required, thermally regulates the fixture. If for any reason the fixture begins to overheat. ATM will reduce the LED power level in order to protect the LED source. Smooth dimming ensures this background task does not interfere with normal operation of the fixture.

#### **■ SMARTDRIVER™ INTEGRATED**

i2Systems SmartDriver technology is integrated directly inside of every fixture. Connect the Apeiron to a wide range of voltages without sacrificing light output or lifetime. No external drivers are required and wiring is made simple.

#### ■ ACCUWHITE™

i2Systems AccuWhite technology allows integration of Apeiron fixtures to traditional applications without sacrifice in color temperature (CCT) or color rendering (CRI). AccuWhite ensures accurate and consistent color matching from fixture to fixture and across product lines.

#### ■ LIGHTLINK™ COMPATIBLE

i2Systems LightLink controllers represent the next generation in lighting control and connectivity. LightLink modules provide seamless integration of today's commercial and residential dimming systems through a wide variety of desirable interfaces.

#### **■ MULTIPLEX COMPATIBLE**

Without external controllers, fixture is Multiplex compatible, interfacing directly to most Multiplex type dimming systems, including Eplex® and Moritz Octoplex<sup>™</sup> systems.

Eplex® is a registered trademark of ED&D Technologies. Moritz Octoplex™ is a trademark of Moritz Aerospa

\*Refer to Specifications table on page 2 for additional information

## **SPECIFICATIONS**

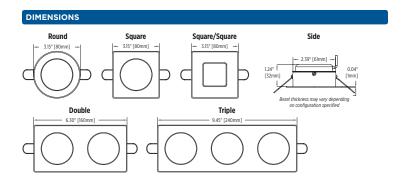
		V44.11=
ITEM	PARAMETER	VALUE
Electrical	Input Power	4.5 Watts* (single fixture)
	Input Voltage Range	9-30V DC
	Integrated Driver	✓
	0-100% Dimming	✓
	Protection Features	Active Thermal Management, Protected Dim Line, Transient Protection, Reverse Polarity, Autoreset Fuse
Optical	Emitting Angle	120° Full Angle
	LED Color	Cool White, Neutral White, Warm White
	LED Colors per Fixture	1
	Class	Class 2 LED Product
Physical	Dimensions	Refer to drawings on right
Physical	Dimensions  Housing Construction	Refer to drawings on right Aluminum, Stainless Steel
Physical		
Physical	Housing Construction	Aluminum, Stainless Steel
Physical	Housing Construction  Lens Material	Aluminum, Stainless Steel Tempered Glass, Frosted
Physical	Housing Construction  Lens Material  Bezel Shapes	Aluminum, Stainless Steel Tempered Glass, Frosted Round, Square, Square/Square, Double, Triple PVD Coated: Polished Chrome, Polished Gold, Brushed Nickel
Physical	Housing Construction Lens Material Bezel Shapes Finishes	Aluminum, Stainless Steel Tempered Glass, Frosted Round, Square, Square/Square, Double, Triple PVD Coated: Polished Chrome, Polished Gold, Brushed Nickel Powder Coated: White, Off-White
Physical	Housing Construction Lens Material Bezel Shapes Finishes Mounting Method	Aluminum, Stainless Steel Tempered Glass, Frosted Round, Square, Square/Square, Double, Triple PVD Coated: Polished Chrome, Polished Gold, Brushed Nickel Powder Coated: White, Off-White Spring Clips, Stainless Steel
Physical	Housing Construction Lens Material Bezel Shapes Finishes Mounting Method Operating Temp. Range	Aluminum, Stainless Steel Tempered Glass, Frosted Round, Square, Square/Square, Double, Triple PVD Coated: Polished Chrome, Polished Gold, Brushed Nickel Powder Coated: White, Off-White Spring Clips, Stainless Steel -20°C to 40°C, Max. Case Temp (Tc): 50°C

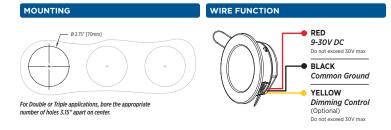
\*Due to constant power design, input current (lin) will vary depending on input voltage. Be sure to size wire awa accordingly for worst case input voltage

"Product is rated for enterior applications, however it is not rated for submersible applications and should not be mounted in conditions where there is, or is a possibility of standing water. When inclaiming in wer or damp locations, it is good practice to so all all finance and junton touces with electronic grounds the Vision research to ensure that include a condition earous either or numbles to writing competents, collect, or other extending parts and any other including part and limited to those outside of its temperature/humidity ratings and/or applications where product is subject to water number or downspouts.

## **ACCESSORIES**

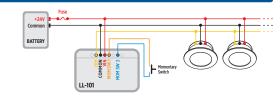
KEYWORD	ITEM NUMBER	DESCRIPTION	FIXTURE MAX
Trim Ring Extender	3120177-11 (Chrome) 3120177-21 (Gold) 3120177-31 (White) 3120177-41 (Nickel) 3120177-51 (Off-White)	Extends round bezel diameter to 3.75" for retrofit applications requiring a larger bezel.	
LightLink LL-101	LL-101 Series	Dimming Controller, Momentary (MOM) Switch Interface.	Dims up to 20 Apeiron A1110
LightLink LL-105	LL-105 Series	Dimming Controller, Multiple Interfaces including 0 to 10V Control.	Dims up to 50 Apeiron A1110
LightLink LL-205	LL-205 Series	Dimming Controller, Multiple Interfaces including 0 to 10V Control.	Dims up to 50 Apeiron A1110
45W Power Supply Enclosure	PS24V45W-E01D	Power Supply Enclosure, 45W, 120/240VAC Input, 24VDC Output, Steel Enclosure w/ Knockouts & Terminal Blocks.	Powers up to 5 Apeiron A1110
75W Power Supply Enclosure	PS24V75W-E01D	Power Supply Enclosure, 75W, 120/240VAC Input, 24VDC Output, Steel Enclosure w/ Knockouts & Terminal Blocks.	Powers up to 7 Apeiron A1110
75W Outdoor Power Supply Enclosure	PS24V75W-E02	Outdoor Power Supply Enclosure, 75W, 120/240VAC Input, 24VDC x 1 Output, Stainless Steel NEMA 4 Enclosure.	Powers up to 7 Apeiron A1110
150W Outdoor Power Supply Enclosure	PS24V150W-E02	Outdoor Power Supply Enclosure, Dual Power Supply, 75W x 2, 120/240VAC Input, 24VDC x 2 Output, Stainless Steel NEMA 4 Enclosure.	Powers up to 14 Apeiron A1110





#### INSTALLATION EXAMPLES

Marine / Transportation EXAMPLE 1: Momentary Switch Dimming via LightLink LL-101

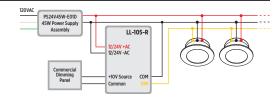




Solid State Output Solid State Return PWM Capable Solid State Output MULTI MODULE

+24V





#### ORDERING NUMBER

- FIXED FACTORY NUMBER
- EXAMPLE: A1110Z-12CXXX
- USER SELECTED OPTION
- Polished Chrome Finish, Square Bezel, Warm White LED

# A1110Z

- \* **Bezel Finish**
- \* **Bezel Shape** O 1 Round
- \*

# LED Color A Cool White



- PVD Coated:
  - 1 Polished Chrome2 Polished Gold 4 Brushed Nickel Powder Coated:
    - OO 5 Double OOO 6 Triple
  - ◯ 3 White Off-White