Apeiron A2162

LED Recessed Light for General Lighting

PRODUCT HIGHLIGHTS

- 6 Watts
- 9-30V DC Input
- 0 to 100% Dimming
- Active Thermal Management
- 3" Diameter
- Stainless Steel Construction
- IP67 Rated

TYPICAL APPLICATIONS

- General Lighting

SPECIFICATIONS

SUITABLE ENVIRONMENTS

Dry Damp Wet*

LED COLORS

- Cool White
- Neutral White
- Warm White

BEZEL FINISHES

PVD Coated:
- Polished Chrome
- Polished Gold
- Brushed Nickel

Powder Coated:
- White
- Off-White
- Black

BEZEL SHAPES

Round Square Square/ Square

Double Triple

BEAM ANGLES

120° Full Angle

CERTIFICATIONS

FC RoHS compliant 2002/95/EC IP67

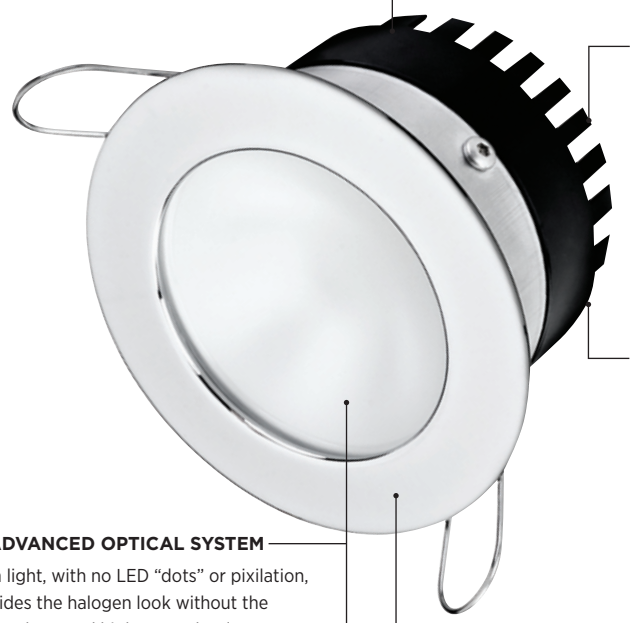
Features

■ 0 TO 100% DIMMING

With the use of i2Systems LightLink technology, compatible dimming interfaces include push-button dimming, most leading halogen/incandescent TRIAC style dimmers, 0 to 10V control, and similar controls. In addition, through the use of most Multiplex type systems, the A2162 may be dimmed directly without external controllers.

■ ACTIVE THERMAL MANAGEMENT

Active Thermal Management maximizes the A2162's light output while maintaining a normal fixture operating temperature.



■ RUGGED DESIGN & IP67

Stainless Steel bezel & springs, Anodized Aluminum heat sink housing, electronic regulation to the LED source, and sealed IP67 design ensure product longevity. Truly an engineered solution.

■ SMARTDRIVER INTEGRATED

i2Systems SmartDriver technology is integrated directly inside the fixture, allowing integration to both high-volt (using a power converter) and low-volt DC battery systems. One light may be used for both general lighting and on the battery-backup circuit.

■ ADVANCED OPTICAL SYSTEM

Even light, with no LED "dots" or pixilation, provides the halogen look without the intense heat and high power load.

■ STAINLESS STEEL TRIM WITH TITANIUM COATING

Round, square, square/square and rectangle shapes, with six finish options. Physical Vapor Deposition (PVD) coating provides a very durable surface finish which will not tarnish or discolor.

■ BEAUTIFUL 2700K WARM WHITE

In addition to Cool (6500K) and Neutral (4100K) LED colors, the A2162 is available in 2700K Warm White ready to complement any interior. With i2Systems AccuWhite technology, you can be sure from light to light and batch to batch, that the quality of light and color remain constant.

Refer to Specifications table on page 2 for additional information.

i2Systems ADVANCED LED LIGHTING
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SPECIFICATIONS

ITEM	PARAMETER	VALUE
Electrical	Input Power	6 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
	Housing Construction	Aluminum, Stainless Steel
	Lens Material	Tempered Glass, Frosted
	Bezel Shapes	Round, Square, Square/Square, Double, Triple
	Finishes	**PVD Coated:** Polished Chrome, Polished Gold, Brushed Nickel **Powder Coated:** White, Off-White, Black
	Mounting Method	Spring Clips, Stainless Steel
	Operating Temp. Range	-20°C to 40°C, Max. Case Temp (Tc): 50°C
	Humidity	0 to 95%, non-condensing
	Environment	Dry, Damp, Wet**
	Certification	FCC Part 15, Class A, RoHS Compliant, IP67

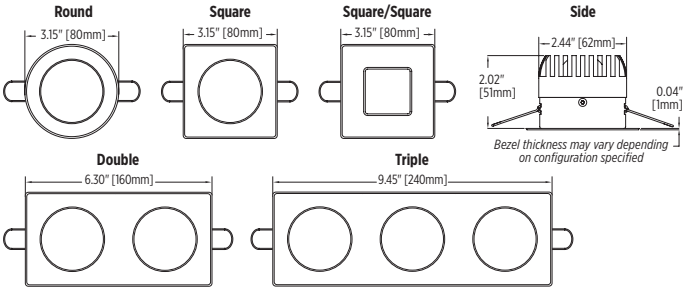
*Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**Product is rated for exterior 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 installing in wet or damp locations, it is good practice to seal all fixtures and junction boxes with electronics grade RTV silicone sealant to ensure that moisture cannot enter or accumulate in wiring compartments, cables, or other electrical parts. Product should not be installed in extreme locations, including but not limited to those outside of its temperature/humidity ratings and/or applications where product is subject to water runoff or downspouts.

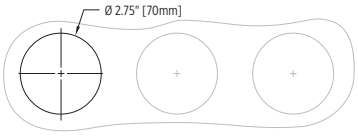
ACCESSORIES

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) 3120177-61 (Black)	Extends round bezel diameter to 3.75" for retrofit applications requiring a larger bezel.	
LightLink LL-101	LL-101 Series	Dimming Controller with Momentary (MOM) Switch Interface.	Dims up to 20 Apeiron A2162
LightLink LL-105-R	LL-105-R	Dimming Controller, Multiple Interfaces including 0 to 10V Control.	Dims up to 50 Apeiron A2162
LightLink LL-205	LL-205 Series	Dimmer, Multiple Interfaces including 0 to 10V Control.	Dims up to 50 Apeiron A2162
Power Supply	PS24V100W-01	Power Supply, 100W, 120-277VAC Input, 24VDC Output.	Powers up to 12 Apeiron A2162

DIMENSIONS

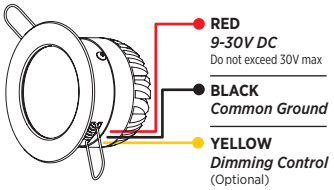


MOUNTING



For Double or Triple applications, bore the appropriate number of holes 3.15" apart on center.

WIRE FUNCTION

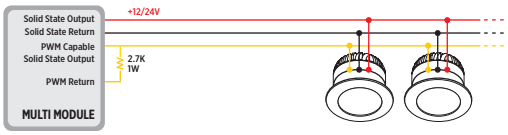


INSTALLATION EXAMPLES

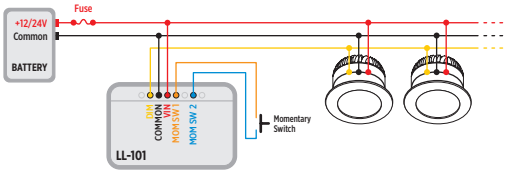
Line Voltage
EXAMPLE:
120-277V AC Input

3rd Party Controller
EXAMPLE:
Shown with 3rd Party PWM Controller

*Refer to your Multiplex system integrator and/or available application notes prior to wiring.



Switch Dimming
EXAMPLE:
Momentary Switch Dimming via LightLink LL-101



Additional dimming interfaces available. Please contact us for more information.

ORDERING NUMBER

FACTORY NUMBER
USER SELECTED OPTION

EXAMPLE: **A2162Z-12CXXX**
Polished Chrome Finish, Square Bezel, Warm White LED

A2162Z - * * * XXX

Bezel Finish
PVD Coated:
1 Polished Chrome
2 Polished Gold
4 Brushed Nickel
Powder Coated:
3 White
5 Off-White
6 Black

Bezel Shape
1 Round
2 Square
4 Square/Square
5 Double
6 Triple

LED Color
A Cool White
B Neutral White
C Warm White

Color Bin Code

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