



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
- Damp Location
- Multiplex Compatible

TYPICAL APPLICATIONS

- Commercial General Lighting
- Commercial Task Lighting
- Megayacht/Cruise Ship Lighting
- Residential General Lighting

SPECIFICATIONS

SUITABLE ENVIRONMENTS



LED COLORS

- Cool White
- Neutral White
- Warm White

BEZEL FINISHES

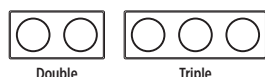
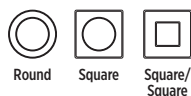
PVD Coated:



Powder Coated:



BEZEL SHAPES



BEAM ANGLES



CERTIFICATIONS



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 ensures 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.

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™ systems.

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

SPECIFICATIONS

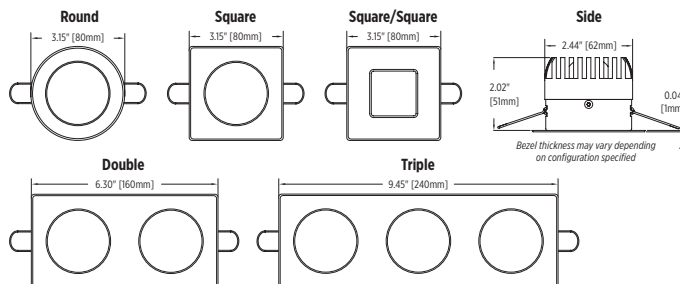
ITEM	PARAMETER	VALUE
Electrical	Input Power	6 Watts* (single fixture)
	Input Voltage Range	9-30V DC
	Integrated Driver	✓
	0-100% Dimming	✓
	Protection Features	Active Thermal Management, Protected Dim Line, Transient Protection, Reverse Polarity, Autoreset Fuse
Optical	Emitting Angle	120° Full Angle
	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
	Mounting Method	Spring Clips, Stainless Steel
	Operating Temp. Range	-20°C to 40°C, Max. Case Temp (T _C): 50°C
	Humidity	0 to 95%, non-condensing
	Environment	Dry, Damp
	Certification	CE, FCC Part 15, Class B, RoHS Compliant

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

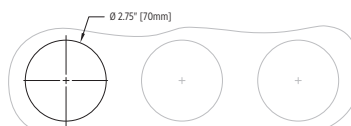
ACCESSORIES

KEYWORD	ITEM NUMBER	DESCRIPTION	FIXTURE MAX
Trim Ring Extender	3120177-TI (Chrome)	Extends round bezel diameter to 3.75" for retrofit applications requiring a larger bezel.	
	3120177-21 (Gold)		
	3120177-31 (White)		
	3120177-41 (Nickel)		
	3120177-51 (Off-White)		
LightLink LL-101	LL-101 Series	Dimming Controller, Momentary (MOM) Switch Interface.	Dims up to 20 Apeiron A2162
LightLink LL-105	LL-105 Series	Dimming Controller, Multiple Interfaces including 0 to 10V Control.	Dims up to 50 Apeiron A2162
LightLink LL-205	LL-205 Series	Dimming Controller, Multiple Interfaces including 0 to 10V Control.	Dims up to 50 Apeiron A2162
45W Power Supply Enclosure	PS24V45W-E01D	Power Supply Enclosure, 45W, 120/240VAC Input, 24VDC Output, Steel Enclosure w/ Knockouts & Terminal Blocks.	Powers up to 7 Apeiron A2162
75W Power Supply Enclosure	PS24V75W-E01D	Power Supply Enclosure, 75W, 120/240VAC Input, 24VDC Output, Steel Enclosure w/ Knockouts & Terminal Blocks.	Powers up to 12 Apeiron A2162
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 12 Apeiron A2162
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 24 Apeiron A2162

DIMENSIONS

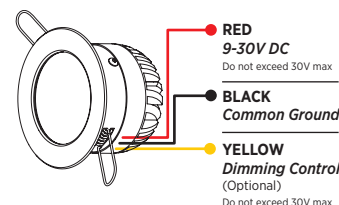


MOUNTING



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

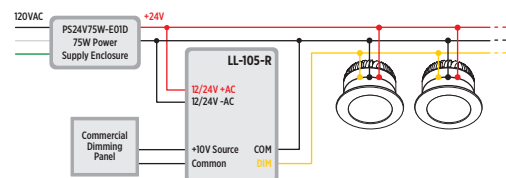
WIRE FUNCTION



INSTALLATION EXAMPLES

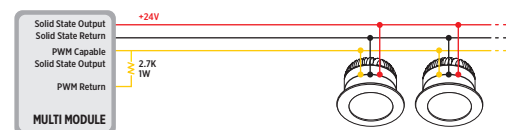
Commercial Lighting

EXAMPLE:
Shown with 0 to 10V Dimming via LL-105-R



Marine Multiplex

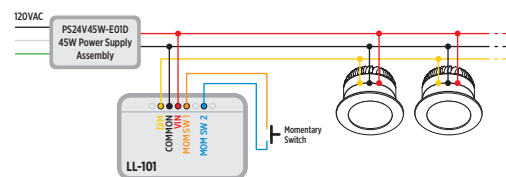
EXAMPLE:
Multiplex Dimming Integration (Typical)



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

Residential Lighting

EXAMPLE:
Momentary Switch Dimming via LightLink LL-101



ORDERING NUMBER

FIXED 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

Bezel Shape

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

LED Color

A Cool White
B Neutral White
C Warm White