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

Features

■ ADVANCED OPTICAL SYSTEM
120° full angle. Even light, no LED “dots” or pixilation.

■ 0 TO 100% DIGITAL DIMMING
Connection with i2Systems Dimming 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.

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.

■ 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.

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

BEZEL SHAPES

- Round
- Square
- Square/Square
- Double
- Triple

BEAM ANGLES

- 120° Full Angle

CERTIFICATIONS

- CE
- FCC
- RoHS
- IP67

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

www.i2systems.com

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PARAMETER</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical</td>
<td>Input Power</td>
<td>4.5 Watts (single fixture)</td>
</tr>
<tr>
<td></td>
<td>Input Voltage Range</td>
<td>9-30V DC</td>
</tr>
<tr>
<td></td>
<td>Integrated Driver</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>D0-100% Dimming</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Protection Features</td>
<td>Active Thermal Management, Protected Dim Line, Transient Protection, Reverse Polarity, Auto Reset Fuse</td>
</tr>
<tr>
<td>Optical</td>
<td>Entailing Angle</td>
<td>DIP - Full Angle</td>
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<tr>
<td></td>
<td>LED Color</td>
<td>Cool White, Neutral White, Warm White</td>
</tr>
<tr>
<td></td>
<td>LED Colors per Fixture</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Class</td>
<td>Class 2 LED Product</td>
</tr>
<tr>
<td>Physical</td>
<td>Dimensions</td>
<td>Refer to drawings on right</td>
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<tr>
<td></td>
<td>Housing Construction</td>
<td>Aluminum, Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>Lens Material</td>
<td>Tempered Glass, Frosted</td>
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<tr>
<td></td>
<td>Bezel Shapes</td>
<td>Round, Square, Square/Square, Double, Triple</td>
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<tr>
<td></td>
<td>Finishes</td>
<td>PVD Coated: Polished Chrome, Polished Gold, Brushed Nickel, Powder Coated: White, Off-White</td>
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<tr>
<td></td>
<td>Mounting Method</td>
<td>Spring Clips, Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>Operating Temp. Range</td>
<td>-30°C to 40°C, Max. Case Temp (Tc): 50°C</td>
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<tr>
<td></td>
<td>Humidity</td>
<td>0-95%, non-condensing</td>
</tr>
<tr>
<td></td>
<td>Environment</td>
<td>Dry, Damp, Watertight (IP67)</td>
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<tr>
<td></td>
<td>Certification</td>
<td>CE 04/25/EC, FCC Part 15, Class B, RoHS Compliant</td>
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</table>

**DIMENSIONS**

**Mounting**

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

**WIRE FUNCTION**

RED 9-30V DC
BLACk Common Ground
YELOW Dimming Control
(Optional) Do not exceed 30V max

**INSTALLATION EXAMPLES**

**Marine / Transportation**

**EXAMPLE 1:**
Dimming Controller, Momentary Switch Dimming via LightLink LL-105

**EXAMPLE 2:**
Multiple Dimming Integration (Typical)

Refer to your Multiplex system application notes prior to wiring.

**Commercial Lighting**

**EXAMPLE:**
Show with 0 to 10V Dimming via LL-101-5

**ORDERING NUMBER**

- FIXED FACTORY NUMBER
- USER SELECTED OPTION

**Example:** A1110Z-12XXX

Polished Chrome Finish, Square Bezel, Warm White LED

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**ACCESSORIES**

<table>
<thead>
<tr>
<th>KEYWORD</th>
<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
<th>FIXTURE MAX</th>
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<tbody>
<tr>
<td>Thin Ring Extender</td>
<td>3120177-01N (Chrome)</td>
<td>Extends round bezel diameter to 3.15” for retrofit applications requiring a larger bezel.</td>
<td></td>
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<tr>
<td></td>
<td>3120177-02N (Gold)</td>
<td></td>
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<tr>
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<td>3120177-03N (White)</td>
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<tr>
<td></td>
<td>3120177-04N (Nickel)</td>
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<tr>
<td></td>
<td>3120177-05N (Stainless Steel)</td>
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<tr>
<td>LightLink LL-101</td>
<td>LL-101 Series</td>
<td>Dimming Controller: Momentary Switch Dimming (Typical)</td>
<td>Dims up to 20 Appearances A110D</td>
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<tr>
<td></td>
<td>LL-105 Series</td>
<td>Dimming Controller: Multiple Interfaces including 0 to 10V Control.</td>
<td>Dims up to 50 Appearances A110D</td>
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<tr>
<td></td>
<td>LL-205 Series</td>
<td>Dimming Controller: Multiple Interfaces including 0 to 10V Control.</td>
<td>Dims up to 50 Appearances A110D</td>
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<tr>
<td>45W Power Supply Enclosure</td>
<td>PS24V45W-000D</td>
<td>Power Supply Enclosure, 45W, 24V/120VAC Input, 4W50 Output, Stainless Steel Enclosure w/ Knockouts &amp; Terminal Blocks.</td>
<td>Powers up to 5 Appearances A110D</td>
</tr>
<tr>
<td>75W Power Supply Enclosure</td>
<td>PS24V75W-000D</td>
<td>Power Supply Enclosure, 75W, 24V/120VAC Input, 5W50 Output, Stainless Steel Enclosure w/ Knockouts &amp; Terminal Blocks.</td>
<td>Powers up to 7 Appearances A110D</td>
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<tr>
<td>70W Outdoor Power Supply Enclosure</td>
<td>PS24V70W-000D</td>
<td>Outdoor Power Supply Enclosure, 70W, 24V/120VAC Input, 7W50 x 1 Output, Stainless Steel/NEMA 4 Enclosure.</td>
<td>Powers up to 7 Appearances A110D</td>
</tr>
<tr>
<td>100W Outdoor Power Supply Enclosure</td>
<td>PS24V100W-000D</td>
<td>Outdoor Power Supply Enclosure, Dual Power Supply, 50W x 2, 120VAC Input, 5W50 x 2 Output, Stainless Steel/NEMA 4 Enclosure.</td>
<td>Powers up to 14 Appearances A110D</td>
</tr>
</tbody>
</table>

**ASSOCIATED INFORMATION**

- 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.

- Marine & Transportation Lighting: Use with 0 to 10V Dimming via LightLink LL-101-5 for retrofit applications requiring a double faceplate. For commercial applications, see Integrated Illumination Systems, Inc. Lights and Lighting Guide.

- To view complete specifications online, visit www.i2systems.com.

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**PRODUCT INFORMATION**

Integrated Illumination Systems, Inc.
355 Bantam Lake Road
Morris, CT 06763 USA

tel +1.860.567.0708
fax +1.860.567.2501
sals@i2systems.com

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