



## AL2A-G2 SERIES AREA LIGHT

Client:  
Project:  
Type:  
Quantity:

### CONSTRUCTION

Die-cast aluminum housing with hinged die-cast aluminum door.  
Low profile, 3G vibration rated compact design minimizes wind load requirements.  
Driver enclosure cover opens downwards, completely sealed against moisture and dusty.

### OPTICS

UV-resistant polycarbonate optics, available in Type II, III, IV, V distributions.  
Full cutoff "U - 0" when mounted with 0 degrees tilt. Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

### ELECTRICAL

80 CRI Lumileds LED.  
Field Selectable Lumen / CCT Technology.  
-40°C up to 50°C (-40°F up to 122°F) maximum ambient temperature.  
Long-life 100,000 hr LED at L70 @ 40°C.  
Driver operates at 120-277V input, 0-10V dimmable driver, down to 10%.  
50/60Hz, <20% THD, 0.9 power factor.  
Optional 347/480V input.  
Optional 10kV surge protection.  
Optional dimming sensor for occupancy and photosensing.

### SENSORS (OPTIONAL)

SENSOR-BLE-6-4T Plug-N-Play PIR ALS Control Bluetooth/on/off/dimming/photosensing.  
SENSOR-ANT-6-4T Plug-N-Play PIR on/off/dimming/photosensing.  
SENSOR-PH-PB-U Integral button style photocell.  
CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

### MOUNTING

Tilt-able pole mount bracket (SRT) suitable for both round and square pole.  
Optional slipfitter for 2-3/8" tenon (SF), adjustable trunnion mount (TR).

### STANDARD FINISH

Corrosion resistant Dark Bronze powder coating finish.

### CUSTOM FINISH

Corrosion resistant Black, Graphite Metallic, Gray, Silver, White, Custom RAL#.

### CERTIFICATION

IP65 Wet location label standard.  
Meets Buy America Act requirements.  
IDA compliant: with 3000K color temperature selection.  
Title 24 compliant; see local ordinance for qualification information.  
All luminaires are built to UL1598 standards and bear appropriate cETLus labels.  
CE Compliance, DLC® Premium (DesignLights Consortium Qualified) listed.

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



450W w/SR Pole Mount



450W w/SF Mount

### SHIPPING DATA

Product	Measurement	Weight
AL2A-G2-150	17"L x 13"W x 5"H	9 lb
AL2A-G2-320	24"L x 13"W x 5"H	13 lb
AL2A-G2-450	28"L x 17"W x 6"H	18 lb



**AL2A-G2 SERIES AREA LIGHT**

**ORDER INFORMATION** **EXAMPLE : AL2A-G2 150 SC T3 DB UNVD**

Fixture	Series	Power & LM	CCT	Distribution	Finish	Input
	<b>AL2A-G2</b>		<b>SC</b>			

**A SERIES**

<b>AL2A-G2</b>	AL2 Series Area Light Gen 2 Selectable
----------------	--

**B POWER & LM**

Code	Power	LM*	Efficacy (avg.)*
<b>150</b>	Field Selectable 75 / 100 / 120 / 150W	11,625 / 15,500 / 18,600 / 23,250	155lm/W
<b>320</b>	Field Selectable 160 / 200 / 240 / 320W	24,800 / 31,000 / 37,200 / 49,600	155lm/W
<b>450</b>	Field Selectable 320 / 350 / 400 / 450W	51,200 / 56,000 / 64,000 / 72,000	160lm/W

\*LM Value & Efficacy based on 4000K, T5 Distribution

**C CCT**

<b>SC</b>	Field Selectable 3000K / 4000K / 5000K
-----------	--

**D DISTRIBUTION**

<b>T2</b>	Type II
<b>T3</b>	Type III
<b>T4</b>	Type IV
<b>T5</b>	Type V

**E FINISH**

Standard							
<b>DB</b>	Dark Bronze						
Custom Color							
<b>CC</b>	<b>BK</b>	Black	<b>GM</b>	Graphite Metallic	<b>GR</b>	Gray	
	<b>SV</b>	Silver	<b>WH</b>	White	<b>RAL#</b>		

**F INPUT**

<b>UNVD</b>	120-277V, 0-10V Dimmable
<b>UNVDCE</b>	CE Compliance 120-277V, 0-10V Dimmable
<b>HVLD</b>	347-480V, 0-10V Dimmable

**AL2A-G2 SERIES AREA LIGHT**

**ORDER INFORMATION (CONTINUED)**

**Mounting**

**Accessories  
Options**

**G MOUNTING**

<b>MOUNT-AL2A-SF</b>	Slipfitter
<b>MOUNT-AL2A-SRT</b>	Square/Round Pole Tilt-able
<b>MOUNT-AL2A-TR</b>	Trunnion Mount

**H ACCESSORIES/OPTIONS**

<b>BAA</b>	Assembled in America, compliant with BAA (COTS)
<b>SHIELD-AL2A-A / B / C*</b>	Backlight Shield <b>A:</b> 150W, <b>B:</b> 320W, <b>C:</b> 450W
<b>SENSOR-ANT-6-4T**</b>	Integral PIR On/Off/Dimming/Photosensing
<b>SENSOR-BLE-6-4T**</b>	“Plug-N-Play” Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App)
<b>SENSOR-PH-PB-U**</b>	Button Style Photocell
<b>REMOTE-RC100**</b>	Handheld Remote Commissioning Tool for SENSOR-ANT (1 per job)
<b>SURGE-LSP4-U / H</b>	10kV Inline Surge Protection for Universal Input / <b>U:</b> 120-277V, <b>H:</b> 480V Input
<b>CONTROL-LVFA*</b>	AVI-ON Bluetooth Mesh Control System
<b>CONTROL-BLE-SK104-PH*</b>	Integral Bluetooth Fixture Controller w/Button Photocell (ALS Control Mobile App)

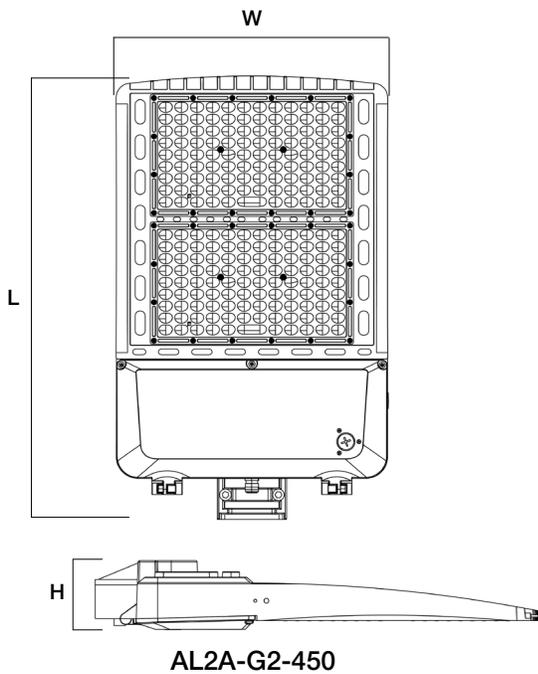
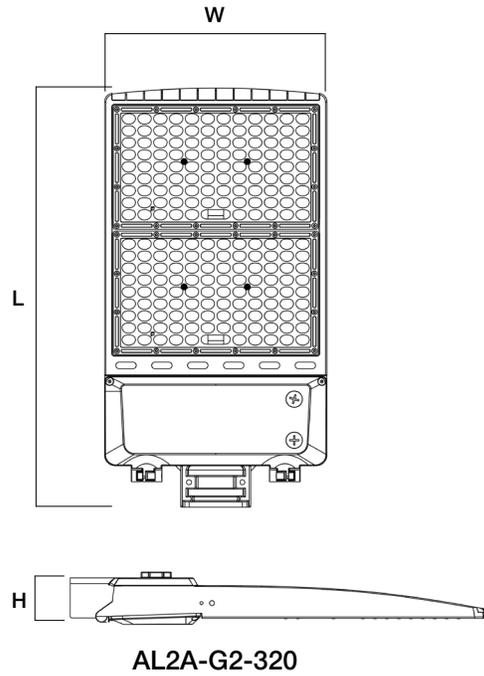
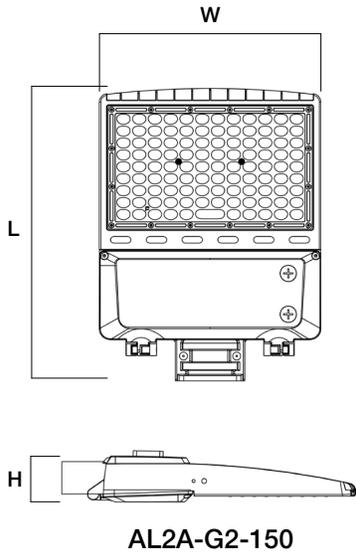
\*see page 5 for Shield spec

\*\*see page 6 for Sensor spec

**AL2A-G2 SERIES AREA LIGHT**

**DIMENSIONS**

Model	L	W	H	Weight
AL2A-G2-150	15.90" (405mm)	12.00" (305mm)	2.70" (69mm)	7.7 lbs
AL2A-G2-320	22.70" (577mm)	12.00" (305mm)	2.80" (72mm)	10.8 lbs
AL2A-G2-450	24.30" (617mm)	14.80" (375mm)	3.70" (94mm)	16.5 lbs



**AL2A-G2 SERIES AREA LIGHT**

**ACCESSORIES - MOUNTING**



**MOUNT-AL2A-SF**



**MOUNT-AL2A-SRT**



**MOUNT-AL2A-TR**

**ACCESSORIES - SHIELD**



**SHIELD-AL2A-A / B / C**

- A: 150W
- B: 320W
- C: 450W

**AL2A-G2 SERIES AREA LIGHT**

**SENSOR SPEC**

Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-ANT-6-4T	PIR	up to 40FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T (see page 9 for detail)	PIR	up to 40FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
SENSOR-PH-PB-U	-	-	-	Universal	Dusk-to-Dawn Control	-
CONTROL-LVFA (see page 7 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
CONTROL-BLE-SK104-PH (see page 8 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling CCT Tuning	ALS Control Bluetooth Mobile App



SENSOR-ANT-6-4T  
 SENSOR-BLE-6-4T



SENSOR-PH-PB-U



CONTROL-LVFA



CONTROL-BLE-SK104-PH

**AL2A-G2 SERIES AREA LIGHT**

**CONTROL-LVFA SPEC**

**Status LEDs & Config Button**

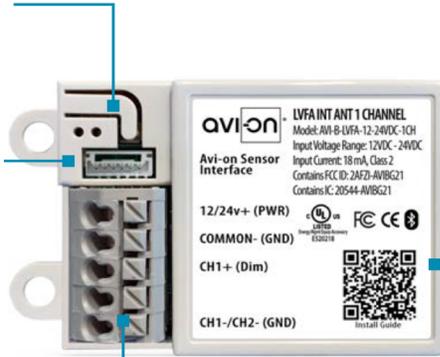
Quick and easy validation of wiring and network

**Direct Connect™ Sensor Port**

Simple and cost-effective addition to Avi-on sensors

**Terminal Blocks & Mounting Tabs**

Faster, easier and lower cost installation eliminating connectors



**Internal Antenna**

Improved performance and eliminates risk of accidentally cutting a hanging wire

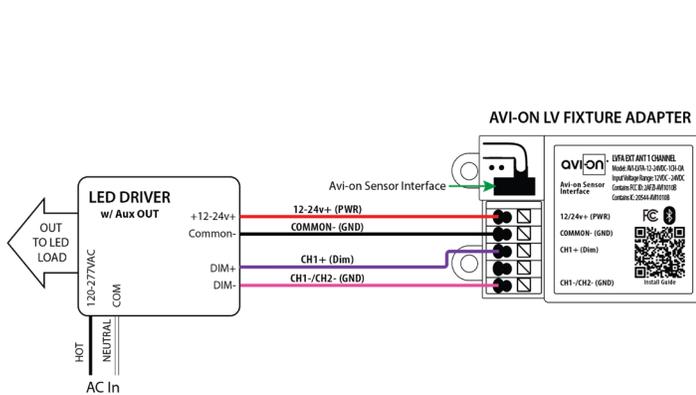
**SPECIFICATIONS**

**INPUT VOLTAGE:** 12-24VDC  
**CURRENT:** 15mA without a Sensor  
 19mA with a DC PIR Sensor  
 48mA with a DC Microwave Sensor  
**0-10V DIMMING:** 12-24VDC  
**SIZE:** 2.30in x 1.43in x 0.75in  
 (58.2mm x 36.4mm x 19mm)  
**MOUNTING:** Removable mounting tabs  
**WEIGHT:** 0.45 oz (16g)  
**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

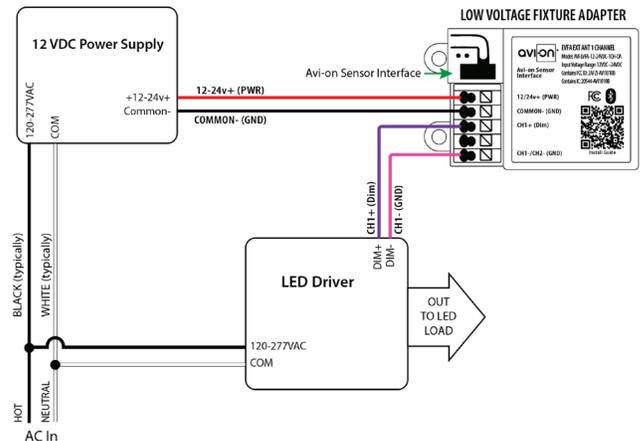
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years; 10 years optional  
**REGULATORY:** FCC: 2AFZI-AVI1010 B  
 IC: 20544-AVI1010 B  
 BQB: D031801, DID: 86303  
 UL 916, 2043 (Plenum Rated)

\*When communicating through the mesh, range is essentially unlimited (5000ft+)

**WIRING DIAGRAM**



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply

**FEATURE**

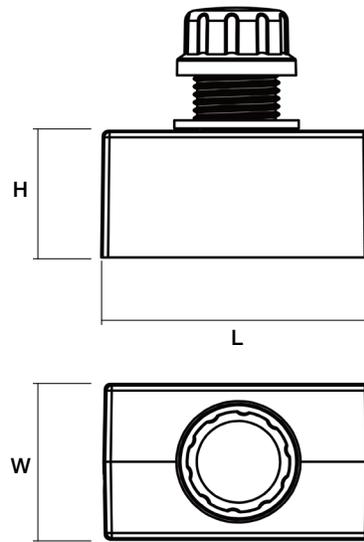
- **Installation:** Factory / Jobsite install through 1/2" knockout hole, 12V AUX power required
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** High-End Trim, Zoning, Continuous Bi-level Dimming
- **CCT Tuning:** CCT Tuning feature for Dual/Multi-CCT LED board fixture only
- **Sensor:** Photocell
- **Zone Control:** Zoning and Grouping control, Scheduling



**SPECIFICATIONS**

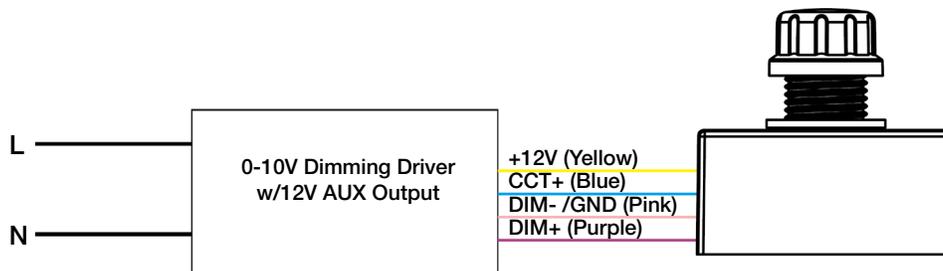
<b>SENSOR TYPE:</b>	Photocell
<b>WIRELESS STANDARDS:</b>	5.0 Bluetooth Mesh
<b>INPUT VOLTAGE:</b>	10-14VDC, >50mA
<b>CONTROL OUTPUT:</b>	0-10V
<b>OPERATING TEMP:</b>	-40°F ~ +158°F (-40°C ~ +70°C)
<b>COMMISSIONING RANGE:</b>	50FT
<b>BLUETOOTH RANGE:</b>	100FT
<b>DETECTION ANGLE:</b>	360°
<b>WARRANTY:</b>	5 years
<b>IP RATING:</b>	IP65

**DIMENSIONS**



L	H	W
1.14" (29mm)	0.94" (24mm)	1.97" (50mm)

**WIRING DIAGRAM**



**FEATURE**

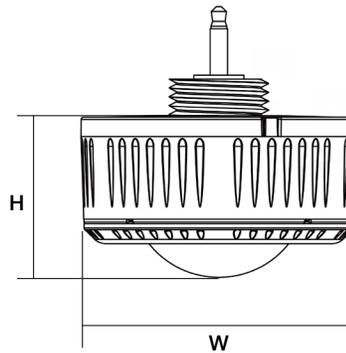
- **Installation:** Plug-N-Play via AUX socket on attached fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on or auto-off capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual) and Daylight Harvesting
- **Room and Zone Control:** Zoning and Grouping control, Scheduling



**SPECIFICATIONS**

<b>SENSOR TYPE:</b>	Passive Infrared Sensor (PIR)
<b>WIRELESS STANDARDS:</b>	5.0 Bluetooth Mesh
<b>INPUT VOLTAGE:</b>	12-24VDC, >50mA
<b>CONTROL OUTPUT:</b>	0-10V
<b>OPERATING TEMP:</b>	-4°F ~ +140°F (-20°C ~ +60°C)
<b>COMMISSIONING RANGE:</b>	50FT
<b>BLUETOOTH RANGE:</b>	164FT
<b>DETECTION ANGLE:</b>	360°
<b>MOUNTING HEIGHT:</b>	Up to 40FT
<b>WARRANTY:</b>	5 years
<b>IP RATING:</b>	IP65

**DIMENSIONS**



H	W
1.03" (26.2mm)	2.17" (55mm)

**COVERAGE PATTERNS**

