Solar Powered ICAO Low Intensity Obstruction Light Type A & B

AV-C310 (Type A only) & AV-C410 (Type A & B)

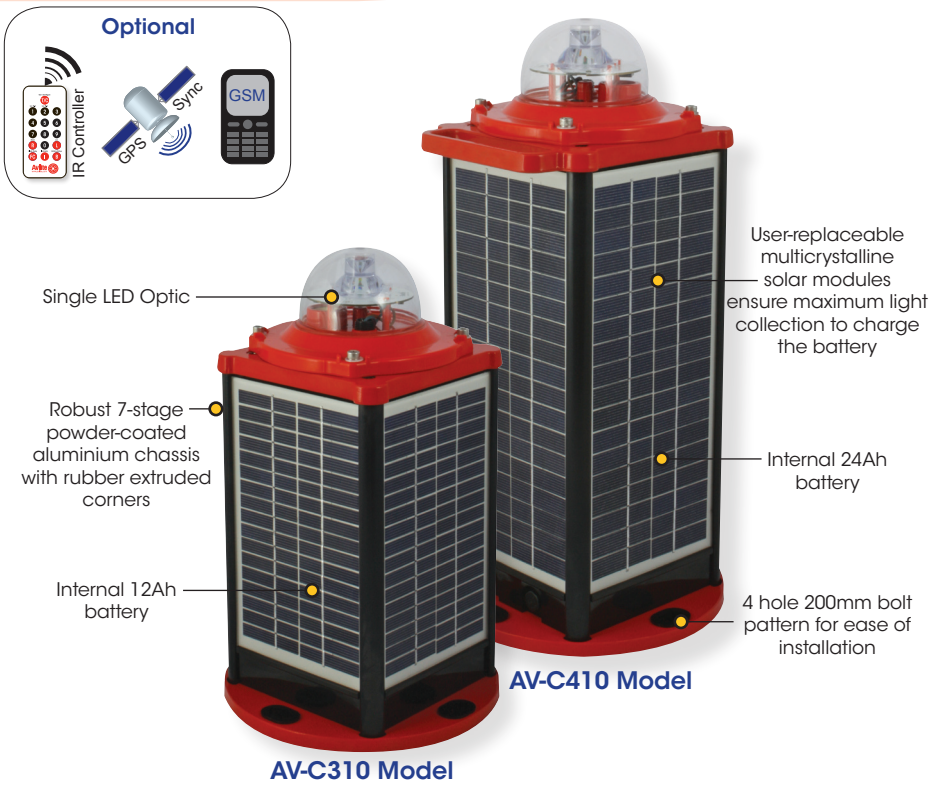
Features

- Integrated solar/battery system
- User-replaceable solar modules
- IP68 waterproof rating
- Available in two power supply sizes to suit various locations
- Optional GSM Monitoring (AV-C410 model)

Certifications

- AV-C310 Low Intensity Type A Obstruction Light, ICAO Annex 14, Volume 1, Sixth Edition, July 2009, 'Aerodrome Design and Operations'
- AV-C410 Low Intensity Type A & B Obstruction Light, ICAO Annex 14, Volume 1, Sixth Edition, July 2009, 'Aerodrome Design and Operations'

AV-C410 shown with optional GSM Cell-Phone Monitoring



Avlite's Solar powered ICAO LIOL Type A & B is a robust, completely self-contained solar powered LED obstruction light.

The AV-C310 model has four 3 watt (12watt total) premium-grade solar modules integrated into the solar chassis, and mounted to collect sunlight at all angles. The AV-C410 model has four larger 5watt panels (20 watt total) for use in areas of lower sunlight to maximise solar collection or to support an ICAO LIOL Type B (32cd) light head.

The solar array charges an internal battery during daylight hours, and at dusk the light will automatically begin operation.

The rugged design of this self-contained light ensures up to 12 years of reliable service with minimal ongoing maintenance. Specifically designed for the harshest of environments, this light features a 7-stage, powder-coated aluminium top, base and internal chassis in high visibility colors for daytime recognition. The rubber, extruded corners provide additional impact resistance.

The advanced light optic uses a single power LED. The tough polycarbonate aviation lens is specifically designed for use with LEDs to maximize light intensity and uniformity. The light head is interchangeable between units, and can be replaced onsite by the operator if required.

The unit can be supplied in varying color outputs to suit other applications including runway edge lighting. For military applications the unit is also available in infrared (IR).

Optional External ON/OFF Switch & External Charging Port

These models can be fitted with an optional, external ON/OFF switch. The light can also be fitted with an optional external charging port for charging the battery while it is stored for extended periods.

Optional GPS Synchronisation

Avlite has utilized the latest advancements in GPS technology to develop an internal synchronisation system that can be incorporated into the lights. Using overhead satellites, multiple obstruction lights set to the same flash pattern will flash in unison.

Optional IR Remote Control

The IR remote is used to communicate with Avlite lighting products that have an IR sensor fitted. The remote control is used to control functions such as flash code and light intensity.

Optional GSM Cell-Phone Monitoring

The AV-C410 model is available with GSM Cell-Phone Monitoring enabling operators to remotely monitor the status of their aviation installations. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

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Solar Powered ICAO Low Intensity Obstruction Light Type A & B

AV-C310 (Type A only) & AV-C410 (Type A & B)

SPECIFICATIONS • *	AV-C310	AV-C410
Light Characteristics		
Light Source	As tested AV-OL-ILA-12-R LED	As tested AV-OL-ILA-12-R LED
Available colors	Red as standard. Other colors available on request, including IR	Red as standard. Other colors available on request, including IR
Peak Intensity (cd)†	Complies with ICAO LIOLA	Complies with ICAO LIOLA
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	+4 to +13	+4 to +13
Reflector Type	Single LED Optic	Single LED Optic
Available Flash Characteristics	>250 including steady-on (user-adjustable)	>250 including steady-on (user-adjustable)
Intensity Adjustments	Adjustable in 25% increments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000	>100,000
Electrical Characteristics		
Current Draw (mA)	Steady-on: 39	Steady-on: 39 (Type A), 100 (Type B)
Circuit Protection	Integrated	Integrated
Operating Voltage (V)	12	12
Temperature Range	-40 to 80°C	-40 to 80°C
Solar Characteristics		
Solar Module Type	Multicrystalline	Multicrystalline
Output (watts)	12 (4 x 3watt)	20 (4 x 5watt)
Solar Module Efficiency (%)	14	14
Charging Regulation	Microprocessor controlled	Microprocessor controlled
Power Supply		
Battery Type	SLA (Sealed Lead Acid)	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	12	24
Nominal Voltage (V)	12	12
Typical Autonomy (nights)	Steady-on: >20 (Type A)	Steady-on: >40 (Type A)
Approx. daily insolation to maintain full autonomy (kWh/m²)	2.2	1.4 0.7 (with Solar Booster™)
Physical Characteristics		
Body Material	7-stage powder-coated aluminium	7-stage powder-coated aluminium
Lens Material	LEXAN® Polycarbonate – UV stabilized	LEXAN® Polycarbonate – UV stabilized
Lens Diameter (mm/inches)	107 / 4¼	107 / 4¼
Lens Design	Single LED Optic	Single LED Optic
Mounting	4 x 17mm holes on 200mm PCD	4 x 17mm holes on 200mm PCD
Height (mm/inches)	375 / 14¾	470 / 18½
Width (mm/inches)	233 / 9¼	233 / 9¼
Mass (kg/lbs)	9.1 / 20	13.9 / 30½
Product Life Expectancy	Up to 12 years	Up to 12 years
Environmental Factors		
Humidity	0 to 100%, MIL-STD-810F	0 to 100%, MIL-STD-810F
Icing	22kg per square inch	22kg per square inch
Wind Speed	Up to 160kph	Up to 160kph
Shock	MIL-STD-202G, Test Condition G, Method 213B	MIL-STD-202G, Test Condition G, Method 213B
Vibration	MIL-STD202G, Test Condition B, Method 204	MIL-STD202G, Test Condition B, Method 204
Certifications		
CE	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:1997. EN61000-6-1:1997
Quality Assurance	ISO9001:2008	ISO9001:2008
ICAO	Low Intensity Obstruction Light Type A	Low Intensity Obstruction Light Type A
Waterproof	IP68	IP68
Intellectual Property		
Trademarks	AVLITE® is a registered trademark of Avlite Systems	AVLITE® is a registered trademark of Avlite Systems
Warranty *	3 year warranty	3 year warranty
Options Available	• IR Controller • GPS Synchronisation • IR LED • External ON/OFF Switch • External Battery Charging Port	• IR Controller • GSM Cell-Phone Monitoring • GPS Synchronisation • IR LED • External ON/OFF Switch • External Battery Charging Port • Solar Booster™

• Specifications subject to change or variation without notice

* Subject to standard terms and conditions

† Intensity setting subject to solar availability

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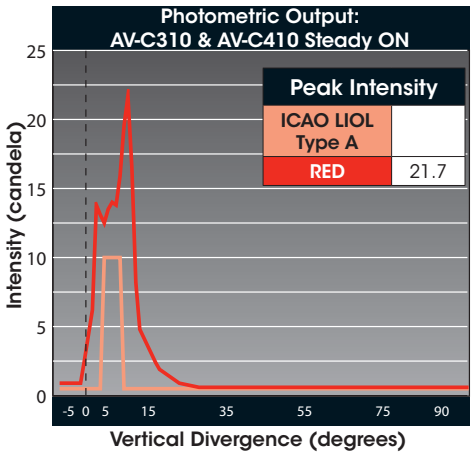
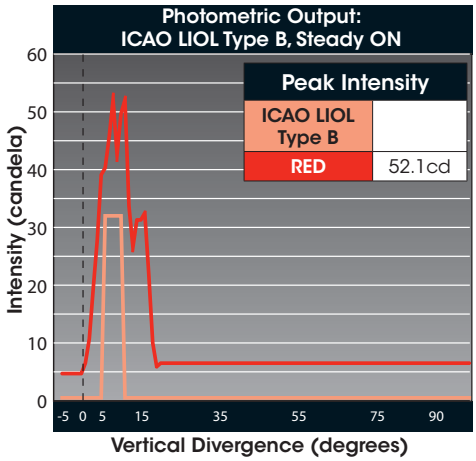
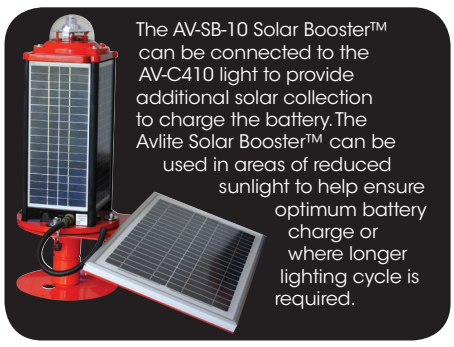
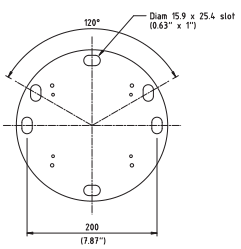




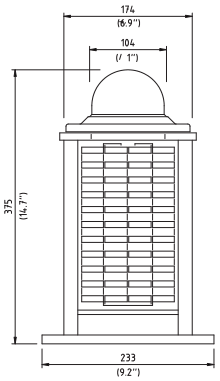


The AV-SB-10 Solar Booster™ can be connected to the AV-C410 light to provide additional solar collection to charge the battery. The Avlite Solar Booster™ can be used in areas of reduced sunlight to help ensure optimum battery charge or where longer lighting cycle is required.

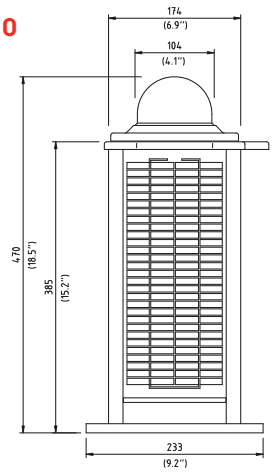
AV-C310 & AV-C410 Mounting



AV-C310



AV-C410



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