

SP-102S SOLAR RUNWAY EDGE LIGHT



LOW INTENSITY

				<p>Compliance: ICAO Annex 14 Vol. I (8th. Edition, July 2018) EASA CS-ADR-DSN FAA AC</p>
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FEATURES

- Self-contained solar light
- 90 hrs of autonomy
- 110 cd light output

APPLICATION

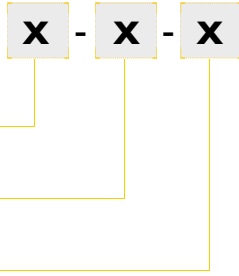
Low intensity, self contained solar light, designed for temporary usage at airports located in regions without access to electricity and with high photovoltaic potential.

TECHNICAL SPECIFICATIONS

<p>Optics</p> <ul style="list-style-type: none"> • 110 cd light output (tested by accredited laboratory) • Omnidirectional • LED lifespan: 100.000 hrs • Maximum power consumption: 3,9W • NVG-compatible, Infrared LEDs (optional) • Color: white • User-replaceable 	<p>Safety & Reliability</p> <ul style="list-style-type: none"> • Five levels of protection against system failure • Secondary power supply: backup battery • Real-time monitoring via ALCMS (Airfield Lighting Control and Monitoring System) 				
<p>Battery</p> <ul style="list-style-type: none"> • Built-in battery • Autonomy: 90 hrs (minimum intensity) • Total capacity: 108W (9Ah/12V) • Deep-cycle VRLA, 12V/9Ah (available worldwide) • Lifespan: 1.200 cycles (designed for 4-5 years) • User-replaceable, air transportable 	<p>Environmental Conditions</p> <ul style="list-style-type: none"> • Temperature range: -20 to 50 °C (-4 to 122 °F) Optional: -40 to 80 °C (-40 to 176 °F) • Ingress protection: IP-65 • Jet Blast Resistance: 480 kph 				
<p>Solar Power Supply</p> <ul style="list-style-type: none"> • 5W built-in solar panel • Polycrystalline type • Lifespan: 15 years • MPPT-Temp / Built-in inverter 12-36V/2A 	<p>Compliance</p> <table border="1"> <tr> <td data-bbox="783 1220 1098 1321">Photometric & Chromaticity</td> <td data-bbox="1098 1220 1505 1321">ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 5.3.9.8 & clause 5.3.9.9, Appendix 1, Figure A1-1b</td> </tr> <tr> <td data-bbox="783 1321 1098 1489">Jet Blast Resistance</td> <td data-bbox="1098 1321 1505 1489">ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, Doc 9157, Part 6, clause 3.2.2 & clause 4.9.1 FAA AC 150/5345-50B dated September 2007, clause 3.2.2</td> </tr> </table>	Photometric & Chromaticity	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 5.3.9.8 & clause 5.3.9.9, Appendix 1, Figure A1-1b	Jet Blast Resistance	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, Doc 9157, Part 6, clause 3.2.2 & clause 4.9.1 FAA AC 150/5345-50B dated September 2007, clause 3.2.2
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<p>Control & Monitoring</p> <ul style="list-style-type: none"> • Wireless mesh type network • Operating frequency: 868 MHz • Operating range: up to 1.5 km, relayed (each light is a repeater) • Operating Modes: Steady / Flashing / Dusk till dawn Visible / Infrared (optional) / Visible + Infrared (optional) • Activation options: Via UR-101 Handheld Controller Via ALCMS Computer Interface (requires UR-201) Via UR-201 Control & Monitoring Unit 	<table border="1"> <tr> <td data-bbox="783 1489 1098 1601">Frangibility</td> <td data-bbox="1098 1489 1505 1601">ICAO Doc 9157 AN901 Aerodrome Design Manual Part 6, 1st Edition dated 2006, clause 4.9 ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 5.3.1.3 FAA AC 150-5345-46E clause 3.4.2.1 FAA AC 150/5220-23, clause 3.2</td> </tr> <tr> <td data-bbox="783 1601 1098 1713">Secondary Power Supply</td> <td data-bbox="1098 1601 1505 1713">ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 8.1.8 - 8.1.9 & clause 8.1.11</td> </tr> </table>	Frangibility	ICAO Doc 9157 AN901 Aerodrome Design Manual Part 6, 1st Edition dated 2006, clause 4.9 ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 5.3.1.3 FAA AC 150-5345-46E clause 3.4.2.1 FAA AC 150/5220-23, clause 3.2	Secondary Power Supply	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 8.1.8 - 8.1.9 & clause 8.1.11
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Secondary Power Supply	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 8.1.8 - 8.1.9 & clause 8.1.11				
<p>Casing & Components</p> <ul style="list-style-type: none"> • Materials Casing, Dome: polycarbonate, UV-resistant Mounting: galvanized steel (optional: marine grade stainless steel) Frangible mounting: aluminum (tested by accredited laboratory) • Built in antenna (optional: external antenna) • Pressure stabilizing valve • Battery level indicator • Carrying handle • Casing lifespan: 15 years • Dimensions (LxWxH): 455 x 280 x 254 mm • Weight: 9,9 kg 	<table border="1"> <tr> <td data-bbox="783 1713 1098 1859">CE Declaration of Conformity</td> <td data-bbox="1098 1713 1505 1859">2014/53/EU RED Directive, clauses 3.1a, 3.1b, 3.2 2011/65/EU ROHS Directive, clause 4.1</td> </tr> </table>	CE Declaration of Conformity	2014/53/EU RED Directive, clauses 3.1a, 3.1b, 3.2 2011/65/EU ROHS Directive, clause 4.1		
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<p>Accredited Laboratory Testing</p>					
Photometric & Chromaticity	Intertek Laboratory				
Jet Blast Resistance	Warsaw Institute of Aviation The Laboratory of Aerodynamics				
Frangibility	Laborex Research Laboratory				
Ingress Protection	EMAG Institute of Innovative Technologies				

ORDERING CODES

SP-102S EDG - X - X - X

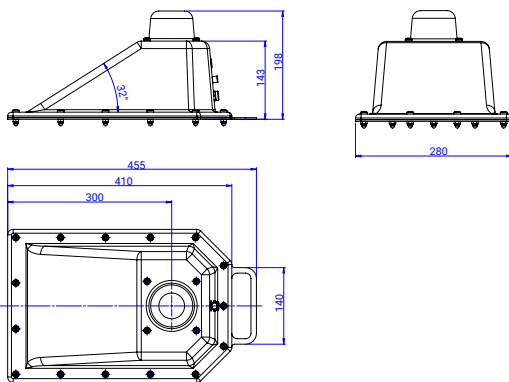
Remote Control	0 - No 1 - Yes	
Infrared	0 - No 1 - Yes	
Mounting	0 - No 1 - Yes	

APPLICATION PHOTOS

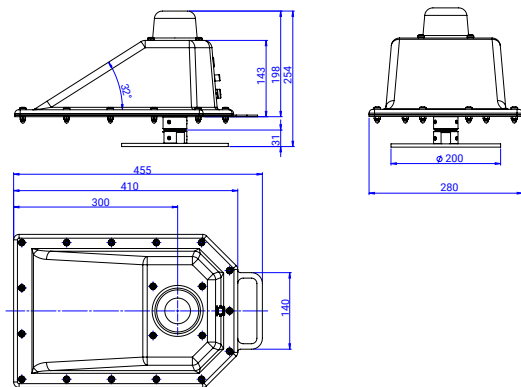


TECHNICAL DRAWING

Portable version (without mounting)



Fixed version (with mounting)



SHIPPING DATA

Item	Dimensions of Package (LxWxH)	Gross Weight
SP-102S Lighting Unit	500 mm x 300 mm x 210 mm	10,5 kg
SP-102S Lighting Unit, NO battery	500 mm x 300 mm x 210 mm	7,9 kg