

SP-401PH PORTABLE HIGH INTENSITY RUNWAY EDGE LIGHT


HIGH
INTENSITY

INDIVIDUAL LIGHT
STATUS MONITORING

COMPLIANT WITH
NATO STANAG 3534

The S4GA portable airfield light offers a reliable and versatile solution for temporary and emergency airfield lighting, designed for rapid deployment and efficient operation in all weather conditions.

KEY FEATURES

- Applicable for System Types 1, 2A, 2B, 3
- NVG-Compatible
- Radio-Controlled
- Weather-Resistant

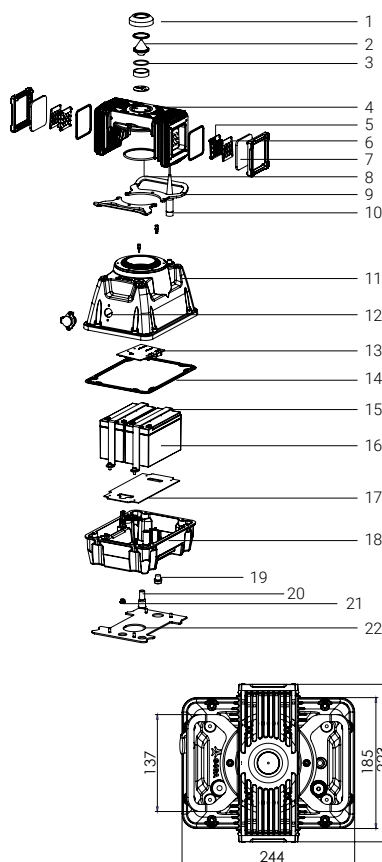


TECHNICAL SPECIFICATIONS

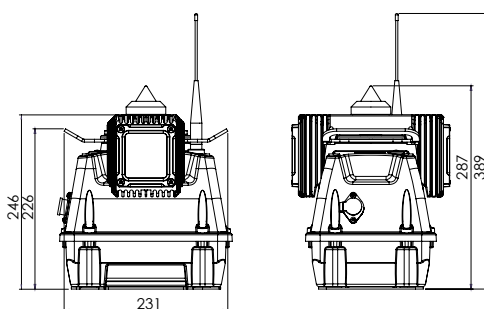
Optics	
• Color: white/white	
• 16.000 cd light output (tested by accredited laboratory)	
• Bidirectional type with omni-directional component	
• LED lifespan: 100.000 hrs	
• Maximum power consumption: 45 W	
• NVG-compatible, Infrared LEDs (optional)	
• User-replaceable	
Battery	
Na-ion (Arctic Pack Extended)	2x built-in batteries, user-replaceable, air transportable Autonomy: 180 hrs (3% intensity) Total capacity: 216 Wh (2 x 9 Ah / 12 V) Nai-ion, 12 V / 9 Ah Lifespan: 3,000 cycles (designed for 6-7 years)
Lead Acid Cyclon (Arctic Pack Standard)	1x built-in battery, user-replaceable, air transportable Autonomy: 100 hrs (3% intensity) Total capacity: 120 Wh (10 Ah / 12 V) Lifespan: 300 cycles (designed for 10-15 years)
Lead Acid (Standard)	2x built-in batteries, user-replaceable, air transportable Autonomy: 180 hrs (3% intensity) Total capacity: 216 Wh (2 x 9 Ah / 12 V) Deep-cycle VRLA, 12 V / 9 Ah (available worldwide) Lifespan: 1,200 cycles (designed for 4-5 years)
LiFePO4	2x built-in batteries, user-replaceable, air transportable Autonomy: 240 hrs (3% intensity) Total capacity: 288 Wh (2 x 12 Ah / 12 V) LiFePO4, 12 V / 12 Ah Lifespan: 3,000 cycles (designed for 6-7 years)
Charging	
• Via OCT-401 Charger (charging time: 8 hrs)	
• Drop-in charging in a Trailer (charging time: 8 hrs)	
• Optional: solar panel charging for off-grid operation	
Control & Monitoring	
Communication	Wireless mesh type network
Frequency	868 MHz (optional 915 MHz, 2.4 GHz)
Wireless range	>10 km (relayed)
Operating modes	Steady / Flashing / Dusk till dawn Visible / Infrared (optional) / Visible + Infrared (optional)
Activation options	Via UR-101 Handheld Controller Via UR-201 Control & Monitoring Unit Via ALCMS Computer Interface (requires UR-201)

Safety & Reliability	
• Five levels of protection against system failure	
• Secondary power supply: backup battery	
• Real-time monitoring via ALCMS (Airfield Lighting Control and Monitoring System)	
• Emergency ON/OFF button	
Casing & Components	
• Light body materials Dome: borosilicate hardened glass, UV-resistant Casing: Lexan polycarbonate, UV-stabilized, color: aviation yellow	
• Mounting options Frangible mounting for asphalt / concrete surface Rubber pad for all surface types Type: quick release / permanent (optional)	
• Charging port: one port / two ports (optional) / drop-in charging port (optional)	
• Detachable antenna	
• Pressure stabilizing valve, transportation fuse	
• Battery level indicator	
• 2x Carrying handles: aluminium	
• Casing lifespan: 15 years	
• Dimensions (LxWxH): 244 mm x 231 mm x 389 mm	
Environmental Conditions	
• Temperature range: -20 to 50 °C (-4 to 122 °F) Optional: -40 to 80 °C (-40 to 176 °F)	
• Ingress Protection: IP-68 (tested by accredited laboratory)	
• Impact Resistance: IK-10 (tested by accredited laboratory)	
Compliance	
Photometric & Chromaticity	ICAO, Annex 14th, Volume I, 9th Edition dated July 2022, clause 5.3.9.10, Figure A2-10 & clause 5.3.1.11, Figure A2-11, Appendix 1, Figure A1-1b
Secondary Power Supply	ICAO, Annex 14th, Volume I, 7th Edition dated July 2016, clauses 8.1.8-8.1.9 & clause 8.1.11
CE Declaration of Conformity	2014/53/EU RED Directive, clauses 3.1a, 3.1b, 3.2 2011/65/EU ROHS Directive, clause 4.1

TECHNICAL DRAWING



1. Adapter for LED optics
2. Omni-directional LED optics
3. O-ring
4. PCB cover
5. LED panel
6. Panel with directional optics
7. Protective front glass
8. O-ring under LED optics
9. Carrying handles
10. Radio antenna for wireless control & monitoring
11. Casing (upper part)
12. Charging port
13. Control PCB
14. Rubber gasket
15. Battery holder
16. 2x batteries built-in
17. Power supply PCB
18. Casing (bottom part)
19. Pressure-stabilizing valve
20. Emergency ON/OFF button
21. Transportation fuse
22. Base plate



PHOTOMETRIC PERFORMANCE

White

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SHIPPING DATA

Item	Dimensions of Package (LxWxH)	Gross Weight
SP-401 Lighting Unit (NO batteries)	250 mm x 240 mm x 300 mm	4.5 kg
SP-401 Lighting Unit (Na-ion batteries)	250 mm x 240 mm x 300 mm	8.9 kg
SP-401 Lighting Unit (Lead Acid batteries)	250 mm x 240 mm x 300 mm	8.9 kg
SP-401 Lighting Unit (LiFePO4 batteries)	250 mm x 240 mm x 300 mm	7 kg