

PORTABLE LED PAPI PRECISION APPROACH PATH INDICATOR L-880 (L), L-881 (L)

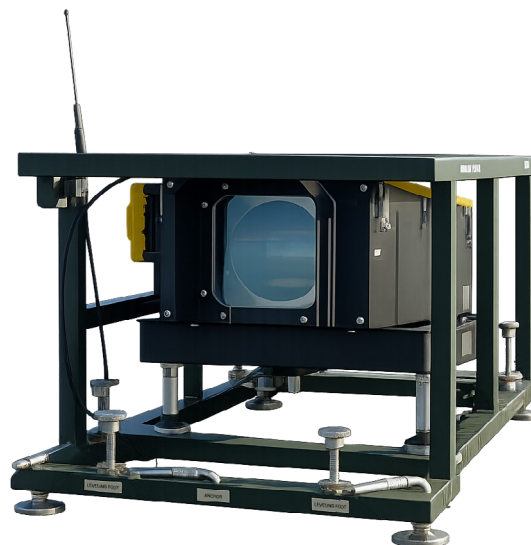


110-230 VAC

The S4GA portable LED PAPI provides visual glide slope guidance for pilots during approach and landing. Available in full (PAPI) or abbreviated (APAPI) configuration, it ensures precise alignment with the runway in all lighting conditions.

KEY FEATURES

- NVG Compatible
- Radio-Controlled
- Individual Light Monitoring

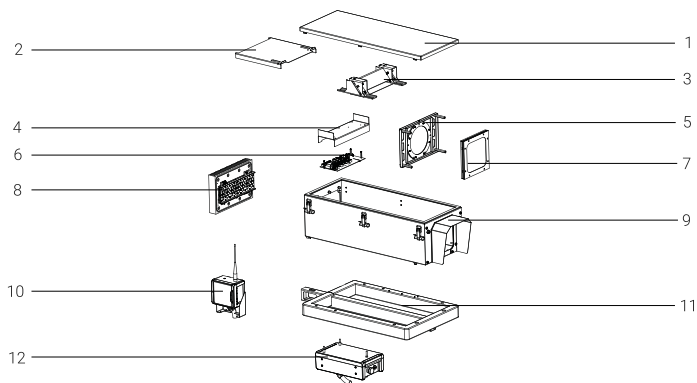


TECHNICAL SPECIFICATIONS

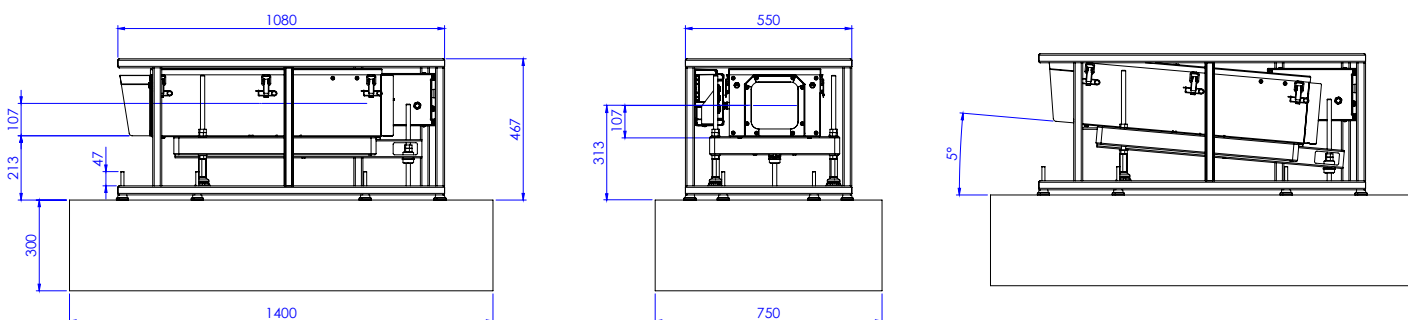
Optics	
• One-projector PAPI unit	
• LED type	
• NVG capable (optional)	
• Vertical adjustment 0-10°	
• Transition: better than 3 minutes of arc on beam axis	
• Maximum power consumption: 80 W per unit	
• Adjustable intensity level in five steps	
• LED lifespan: 50.000 hrs	
• Azimuth range: ± 8° (ICAO) or ± 10° (FAA)	
• LED module replacement does not require re-alignment	
• PAPI projector is removable from the mounting frame	
Power Supply	
• 110-230 VAC	
Manual Control (via onboard Control Box)	
• System manual ON/OFF control	
• Switch to radio remote or local operation	
• Five intensity levels: 1%, 3%, 10%, 30%, 100% (or customizable per request)	
• Photosensor activation and deactivation	
• Night level setting on two intensity steps (5% and 20% as per FAA requirements)	
• Tilt sensor activation and deactivation	
• Lens heater activation and deactivation	
Wireless Control	
Communication	Wireless mesh type network
Frequency	868 MHz (optional 915 MHz, 2.4 GHz)
Wireless range	>10 km (relayed)
Activation options	Via ALCMS Computer Interface (requires UR-201) Via UR-201 Control & Monitoring Unit Via UR-101 Handheld Controller
Environmental Conditions	
• Temperature range: -35 to 55 °C (-31 to 131 °F)	
• Optional: -55 to 55 °C (-67 to 131 °F)	
• Ingress protection: IP-65	
• Resistant to accumulation of rain and snow on lens surface	
• Internal temperature, external temperature and humidity sensors	

Safety & Reliability	
• 4x types of critical fault detection	
• 16x types of non-critical fault detection	
• Excessive tilt deviation sensor	
• Individual PCU per PAPI unit	
Monitoring	
• Via status LED / status digital display on CTRL BOX	
• Advanced Fault Detection via radio communication (optional)	
Casing & Components	
• Cabinet and body material: stainless steel	
• Base frame: stainless steel, breakable coupling: aluminum	
• Lens heater (optional)	
• PCU included	
• Dimensions (LxWxH): 1080 mm x 550 mm x 467 mm	
• Weight: 66 kg	
Compliance	
Photometric & Chromaticity	ICAO, Annex 14th, Volume I, 9th Edition dated July 2022, Figure A2-23
	EASA CS ADR-DSN, Figure U-26
	FAA AC 150/5345-28H, Figure 3-1
	STAC SPE-STAC-SE-E-VIS-6008, Arrêté du 28 août 2003 (modifié)
Chromaticity	TP312, 5th Edition dated 2015, clause 5.2.16.12, Figure B-19
	CASA Part 139 (Aerodromes) Manual of Standards 2019
	ICAO, Annex 14th, Volume I, 9th Edition dated July 2022, clause 5.3.5.30, Figure A1-1b
	EASA CS ADR-DSN.M.645.c.2.i, Figure U-1B
Multi-lamp PAPI projector	FAA AC 150/5345-28H, clauses 3.2.1 & 4.9.1
	TP312, 5th Edition dated 2015, clause 5.3.16.13
Infrared	EASA CS ADR-DSN.M.645
	FAA «Infrared Specifications for Aviation Obstruction Light Compatibility with Night Vision Goggles (NVGs)» Engineering Brief No. 98, dated December 2017, clause 8.3

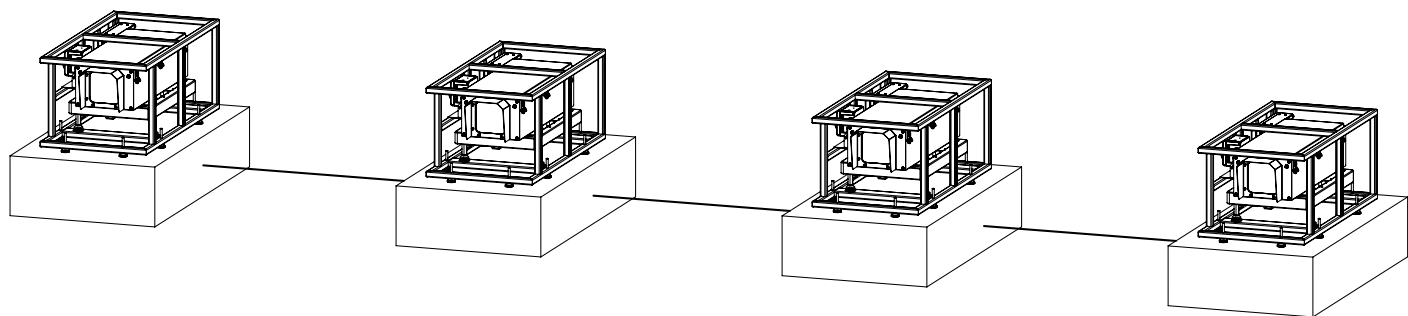
TECHNICAL DRAWING



1.	Top cover
2.	Divider metal sheet
3.	Metal holder for divider glass
4.	Circuit board cover
5.	Glass lens
6.	Circuit board
7.	Front glass
8.	LED panel with radiator
9.	Projector body
10.	Control panel
11.	Base frame
12.	Power supply unit

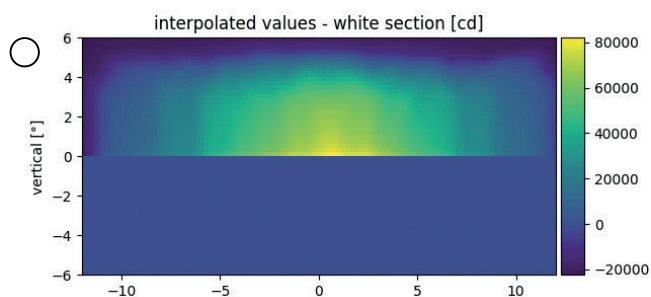


PAPI SYSTEM CONFIGURATION

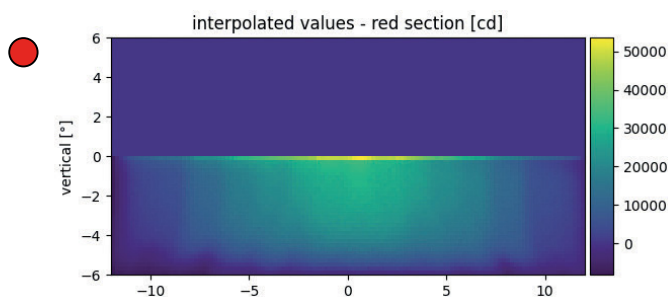


PHOTOMETRIC PERFORMANCE

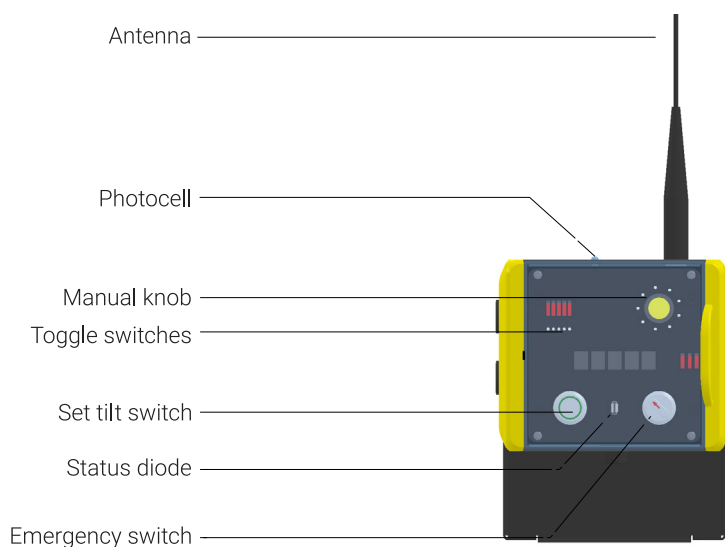
Measured values - white section



Measured values - red section



MANUAL CONTROL BOX DESCRIPTION



Night Vision Mode

Light is visible only through NVG (Night Vision Goggles)



Photo Sensor Activation

PAPI system activates automatically after sunset and deactivates after sunrise with use of photocell



Tilt Sensor

TILT mode alerts the user about the tilt angle of the PAPI unit changes and deactivates the system in case of excessive tilt change



Night Level Setting

Night mode activates PAPI system automatically in 5% or 20% intensity



Lens Heater

Lens heater prevents PAPI projector from condensation and accumulation of ice and snow

