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PAPI LED Precision Approach Path Indicator Metalite

PAPI LED: Precision Approach Path Indicator

- Unique light engine & optical system
- Radio controlled
- Digital inclinometer
- Ultra low power consumption
- Full PAPI (4 BOX) or 'A' PAPI (2 box) system
- Compact and rugged construction

Applications

Using the most advanced LED and optical technology available, Metalite Aviation Lighting's new PAPI LED (Precision Approach Path Indicator) provides a world leading energy efficient and versatile portable PAPI System. Metalite's unique light engine and optical system delivers unrivalled battery run times and highly efficient charging cycles, resulting in a reduced total cost of ownership and a low carbon footprint.

The compact design of the units ensures high portability to allow rapid deployment at either end of the runway. Metalite's renowned outstanding build quality also ensures a low maintenance investment for your airfield ground lighting requirements for many years to come. When used in conjunction with the CALKIT LED trailer, the PAPI LED is designed to meet the photometric requirements for ICAO Annex 14 Vol 1 and FAA-E-3007 AC ensuring compliance for your facility.

Major Benefits

- **Unique optical design**
Improved light efficiency and battery running time
- **Compact, lightweight & rugged construction**
Ensuring versatility and portability
- **'A' PAPI (2 box) or full PAPI (4 box) systems available in manual & secure radio control options**
Provides system flexibility for various deployments
- **Powered from portable PAPI battery packs or alternative sources (generator, solar, wind or fuel cell, etc.)**
Flexible power input options
- **Adjustable intensity settings**
5 intensity adjustments and custom settings to meet multiple ICAO and FAA requirements
- **High capacity replaceable PAPI power control and battery pack as standard**
Option to upgrade to ultra high capacity giving greatly extended running times per charge



- **Semi-permanent or fixed mountings**
Semi-permanent galvanized steel frame or permanent FAA frangible mounts available

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SPECIFICATIONS

LIGHT CHARACTERISTICS	
Light Source	Ultra High Intensity LED
Configurations	Visible, IR (optional)
Light Output	In accordance with FAA-E-3007 AC In accordance with ICAO Annex 14 Vol. I
Colours	Aviation White, Aviation Red
IR Output	880nm (Other options available)
Endurance Steady Light FAA (Low, Med, High)	8hrs, 16hrs and >200hrs*
Endurance Steady Light ICAO (Low, Med, High)	15hrs, 30hrs and >400hrs*
Intensity Adjustments	3 Settings (std) up to 5 settings (optional)
Approach Angle	0° – 12°
Horizontal Output FAA Specification	-10° – +10°
Horizontal Output ICAO Specification	-8° – +8°
Vertical Divergence FAA Specification	-4° – 0° Red, 0° – 4° White
Vertical Divergence ICAO Specification	-3.5° – 0° Red, 0° – 3.5° White
Transition	Better than 3 minutes of arc
LED Life Expectancy	>60,000hrs
OPERATION	
Function	Manual or Radio Control (Optional)
Wireless Radio Receiver (Optional)	868 or 915Mhz MESH Network
ELECTRICAL CHARACTERISTICS	
Operating Temperature	-40°C – +60°C
Power Source	Battery Packs, Solar and Generator
Nominal Input Voltage	12 – 24VDC or 110 – 240VAC
Circuit Protection	Integrated
Charging Time of Battery Packs	8hrs From AC Power Source*
MECHANICAL	
Base/Optical Bench	Aluminium
Casing	Glass Reinforced Plastic (GRP) Available in Yellow, Orange or Green
Dimensions (HxWxD)	338 x 304 x 907mm
Weight	24.52Kg (54lb) Per PAPI Light House Assembly, PCU dependant on battery option (Std portable PCU 24Kg, 53lb)
IP Rating	IP65
COMPLIANCE	
CE	Compliant
Environmental	EN610000
EMC	EN610000
Aviation	FAA-E-3007 ACI50/5345-28G ICAO Annex 14



*Subject to environmental conditions

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