

Advanced Technology

Portable Airfield Lighting System



Portable Airfield Lighting System



In under 45 minutes, the Portable Airfield Lighting System converts ordinary flat terrain into a 5000 ft runway. Deployable by a three member crew, the system provides all the equipment needed for a fully functional airfield.

Trailer with Generators and Charging Cords

The trailer is a multi-faceted component of the PALS system. It holds all of the necessary equipment for lighting a 5000 ft runway and is designed for rapid deployment, recovery, storage, and off-line recharging of all the system components. The Laser Centerline Localizer and Laser Glideslope Indicator slide into the main housing at the rear, 48 Edge

Lights and 12 Threshold Lights stack along the sides, and the batteries attach to the bottom of the trailer. Located at the front of the trailer, 2 tactical generators sit between two chord reels, and each 5000 ft charging cord winds round

a sliding reel. The trailer is wired so that all component batteries can be charged while stored on the trailer with universal AC (85 to 240 VAC) or with 24-28 VDC. The radio control transponder and other

accessories fit neatly within the trailer. The PALS trailer comes with HMMWV tires and interfaces, meeting all US Army and NATO airmobility standards including attach points for sling loading. The trailer with all components weighs 4000 pounds.



TGCC-195



LCL-195



Laser Centerline Localizer

The Laser Centerline Localizer (LCL) provides precision visual and NVG compatible line-up guidance. The eye-safe laser system has a range in excess of 10 nautical miles. The LCL uses a series of steady and pulse code modulated laser beams to precisely indicate line-up information to the approaching pilot. The built in tripod unfolds easily with each leg of the tripod ending in a broad articulated foot for use on soft and unimproved

surfaces. With a separate battery box, the LCL functions for over eight hours using less than 200 watts of power. For long-term use, the system plugs into the deployable charging cords powered by the tactical generators. The LCL operates by manual control or by remote radio control.

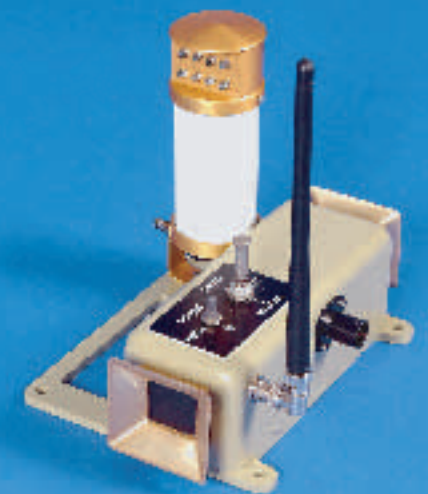
Laser Glideslope Indicator

The Laser Glideslope Indicator (LGI) provides precision visual and NVG compatible guidance using an eye-safe laser beam system. A series of steady and pulse code modulated laser beams illuminate the approach corridor with accurate glideslope information useful in excess of 10 nautical miles. The built-in tripod unfolds easily with each leg of the tripod ending in a broad articulated foot for use on soft and unimproved surfaces. With a separate battery box, the LGI functions for over eight hours using less than 100 watts of power. For long-

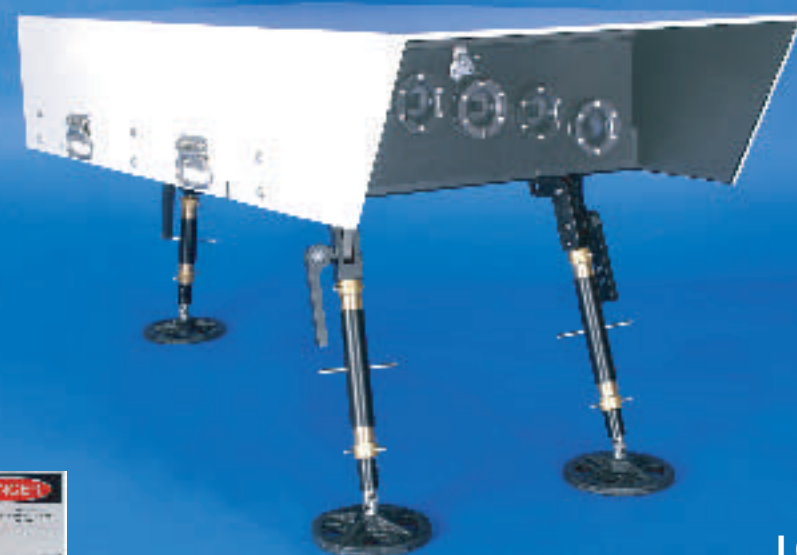
term use, the system plugs into the deployable charging cords powered by the tactical generators. The system operates by manual control or by remote radio control.

Runway Edge Lights

The multimode lighting system outlines the landing field with 48 edge lights and 12 threshold lights. Each light has visible, NVG, and FLIR modes. When the system is turned off, a retro-reflective material covers the flip-up barrels for enhanced visibility. The lighting system functions for over eight hours on internal rechargeable batteries. For long-term use, the lights plug into two 5000 ft charge chords. The units operate by manual control or by remote radio control. Each unit weighs 4.6 lbs.



EDLT-195



LGI-195



Specifications



Portable runway system

5000 ft runway lighting system (10,000 feet optional)

Laser-based long-range approach lighting systems

Laser Centerline Localizer and Laser Glideslope Indicator

48 Edge lights, 12 Threshold lights

8 hours of internal battery power

2 tactical generators and deployable power lines for longer-term operation

Rechargeable on trailer (85-240 VAC, or 28 VDC) or with deployed lines

Operates in Visible, NVG (near infrared), and FLIR (far infrared) modes (selectable)

Meet US Army and NATO air mobility requirements

Standard HMMWV trailer components

Radio/manual operation

4000 lb system weight

