

AVLITE



Avlite has been our partner since 2012, and their solar-powered LED lights have revolutionized our operations. The ease of deployment and reliability have made them indispensable for our military installations.

Zunaisan Haryadi
Director of Operations
PT Anugerah Pacific International



Application
High Mobility
Airfield Lighting



Location
Indonesia



Date
2020 to present



Products

- A704-VL Solar Helipad and Taxiway Lights
- A704 Solar Runway Lights
- Precision Approach Path Indicators
- Wireless Handheld Controller

Modernizing Military Airfield Lighting for Indonesia's Airbases

Background

The Indonesian National Armed Forces (Tentara Nasional Indonesia, TNI), including the Indonesian Air Force (TNI-AU), is responsible for safeguarding the nation's airspace and maintaining operational readiness. Indonesia is the world's largest archipelago with more than 17,500 islands. Given the nature of its country with a chain of islands to defend, the Indonesian Air Force relies on advanced airfield lighting solutions to support its missions

Operating in challenging environments ranging from remote airstrips to temporary installations, the Indonesian Air Force requires versatile lighting systems that are rapidly deployable and adaptable to various scenarios. These lighting systems play a crucial role in enabling safe takeoffs and landings, even in adverse weather conditions and low visibility situations.

Recognizing the importance of reliable lighting infrastructure for airfield operations, the Indonesian Air Force sought innovative solutions to enhance its expeditionary capabilities. The quest for cutting-edge airfield lighting technologies became a priority to ensure mission success and operational effectiveness across all airbases under its jurisdiction.



Challenge

The Indonesian Air Force (TNI-AU) has airbases scattered over a total land area of 1.9 million square kilometers. Each airbase serves as a critical hub for military operations and requires effective lighting systems to ensure safe and efficient operations.

Rapid deployment and portability are essential for military airbases. It was clear there was a need to develop a lighting solution that was quickly deployable for temporary use while also offering the option for permanent installation. Additionally, the solution needed to include infrared lighting for night vision goggle (NVG) operations, catering to the specialized needs of the Indonesian Air Force.

Indonesia's security landscape also presents unique challenges, including maintaining state sovereignty, territorial control, and national unity over its vast island chain. The Indonesian Armed Forces (TNI) are tasked with enforcing law and order, countering criminal activities, conducting counterinsurgency operations, and providing humanitarian assistance and disaster relief (HADR) operations. The TNI-AU plays a crucial role in defending Indonesia's airspace and maritime interests and necessitates robust lighting solutions to support its operations.



Runway and Taxiway Lights

- Meet FAA and ICAO requirements
- Autonomous or wireless control
- Powered by high-endurance batteries

Precision Approach Path Indicators (PAPI)

- Intertek certified to FAA L-880/881(L)
- Patented LED optics ensure precise approach slope guidance for pilots
- Enhancing safety and precision during landings



Solution

To address the challenges faced by military airbases in Indonesia, the local company specializing in aviation technology solutions, PT Anugerah Pacific International, leveraged Avlite's expertise in airfield lighting technology to provide the perfect solution tailored specifically to the Indonesian Air Force's needs while meeting the stringent requirements of TNI-AU's military operations.

The expeditionary airfield lighting solution included Avlite's A704 runway lights, A704-VL taxiway and helipad perimeter lights, and precision approach path indicators (PAPI). Built on a proven technology platform, the A704 lights are ICAO- and FAA-compliant, third-party tested, and available in various solar engine sizes. Engineered to be highly adaptable, Avlite's airfield lighting ensures seamless integration with diverse terrains and operational environments at various airbases across Indonesia.

Complete with infrared lighting for NVG operations, this further enhanced the adaptability and effectiveness of the lighting systems, catering to the specific needs of the military personnel.



Outcome

Avlite's airfield lighting solutions significantly enhanced military operations at over twenty-five airbases in Indonesia. The solution provides exceptional visibility and safety for aircraft operations. Its innovative technology combined with practical infrastructure offers the Indonesian Air Force a comprehensive solution that enhances operational capabilities effectively. Installation requires no trenching or airfield interruptions resulting in fewer installation personnel. The system is ready for immediate deployment for both temporary and sustained operational capabilities, ensuring operational readiness.



Avlite has a reputation for producing the most reliable solar and wired military lighting systems with a program of record system approval from the US ARMY and US DOD procurement and military applications with installations across regional bases in the Middle East, continental US military bases, and defense forces in Southeast Asia and South/Central America.

Through our strategic partnership and commitment to excellence, Avlite and PT Anugerah Pacific International have contributed significantly to enhancing airfield operations and bolstering national security in Indonesia.

Put your trust in an industry leader, choose Avlite.



Flexible Solution

Versatile configurations to adapt to various airfield layouts and operational requirements.



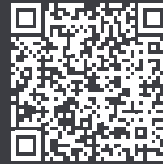
Easy Installation

Minimize downtime and allow for seamless integration into existing infrastructure.

Product Links

Scan or Click the QR Code

Runway and Taxiway Lights



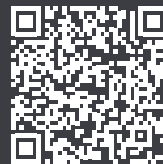
Approach Lights



Control



Trailer Systems



To discuss how Avlite can assist you with your airfield lighting needs, contact aton.sales.aviation@spx.com

avlite.com