

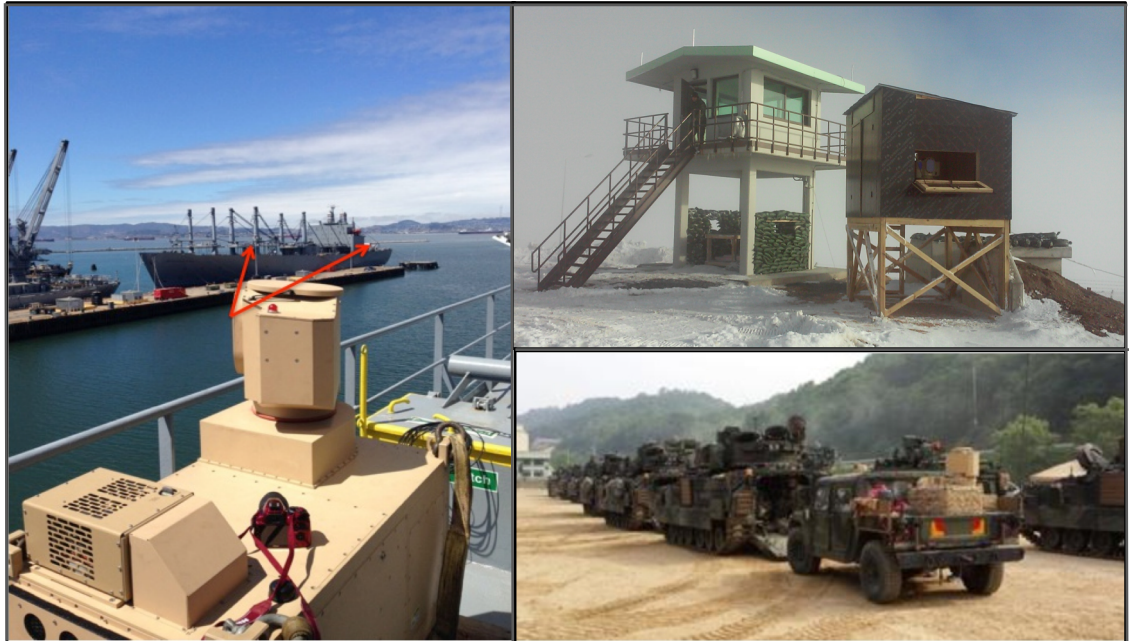
# CPEDS

## Check Point Explosive Detection System

Latest Contract Award - 17 August 2023

Alakai Defense Systems Inc.,\* Tampa Bay, Florida, is awarded in excess of \$30-million dollars with the US Government to procure multiple check point explosive detection systems (CPEDS).

**Alakai Defense Systems' CPEDS** is an extreme standoff range explosive detection system for Entry Point Security (ECP), Bulk Explosives Detection, lower concentrations of explosives, Exploitation, and Forensics applications. The system can be operated remotely further isolating the operator from the blast radius. **CPEDS** employs deep UV Raman Spectroscopic Detection methodologies for robust detection using Alakai's patented, proprietary eye-safety technology.



*Only when you need the most capable, mature, and deployable*

**CPEDS** is a simple point & shoot system. The real-time threat/no-threat results are displayed by a simple Red Light/Green Light indicator for security personnel. Alternatively, the system will not only detect a threat, but also identify the type of material detected when needed. Finally, **CPEDS** can also export detailed analysis for experts across the globe. The current tailorable threat list includes selected explosives, homemade explosives, chemical warfare agents, chemical residues, pollutants, toxic industrial chemicals, drugs/narcotics precursors.

## Capabilities & Benefits

- Extremely long-range compared to systems available today.
- Multiple overseas deployments by the US Military and operationally deployed today.
- Patented eye safe technology, certified by US Army Public Health Command. **CPEDS** has zero-meters eye and skin hazard without eye protection.
- Complete identification of solids, liquids, and some gasses.
- Easily transported at the user site(s) by a commercial vehicle, a standard HMMWV or trailer. Stationary at an entry control point (ECP).
- The system can be configured for ground, air, or water transport and has passed all of the Army Test & Evaluation Command environmental testing including shock & vibration.
- Fully trained in under 1 hour.
- Not ITAR restricted and ready to export today.

**ALAKAI**  
Defense Systems 

# CPEDS Check Point Explosive Detector System



## Specifications

(Changes possible based on application)

### OVERALL

Configuration Option	CPEDS-2 or 3 (3 <sup>rd</sup> Generation Technology now available)
Size	≈ 4' (w) 4' (h) 2' (d)
Weight	≈ 650 lbs. Commercial 500 lb. variant available
Power Consumption	≈ 1.8 Kw
Input Voltage	≈ 110 or 240 Vac (single phase)
Operation Temperature	≈ -20-49°C (-4-120°F)
Environmental Hardening	MILSPEC 810-G

### OPERATION

Remote Operation Range (Operator-to-Sensor)	>>1 km (limited only by Ethernet bandwidth & extenders)
Standoff Detection Range (Sensor-to-Target)	Extreme Long Range
Range Accuracy	≈ 0.5m
Beam Pointing	Elevation ±15° from horizon Azimuth: ±170° rotation
Beam Pointing Resolution	≈ <4cm
Beam Steering Speed	Max: 10°/s
Beam Size on Target	≈ 140 mm or 5.5 inches

### MISCELLANEOUS

Targeting	High & low mag camera; low-light video
Communications	Ethernet (1000Mbps)
Location features	Includes GPS for location of sensor & threat

### CONFIGURATION OPTIONS

Optional Generator, Battery, Trailer	
--------------------------------------	--

CPEDS\_2023.1