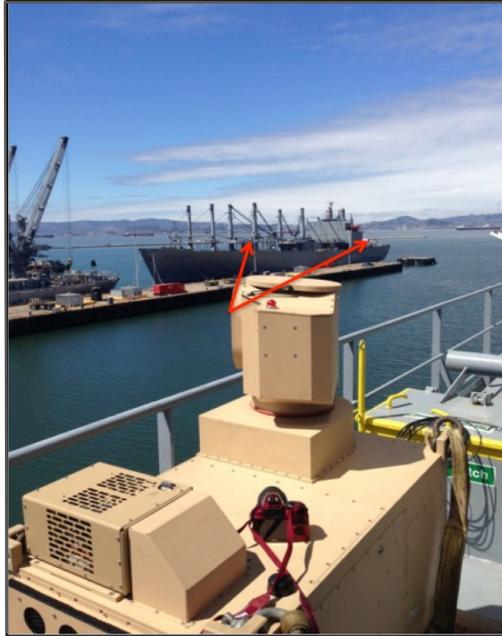


CPEDS

Check Point Explosive Detection System

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 rd 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_2022.1