

# VEDA: Virtual Fence

## Elevating Intrusion Detection



### VEDA (Vibrational Effects - Detection Analysis)

An innovative non-imaging/non-acoustic photonic system monitoring ground vibrations for intrusion detection, bypassing traditional tools' constraints. An intelligent system distinguishing intrusions in challenging environments in real-time.

## FEATURES

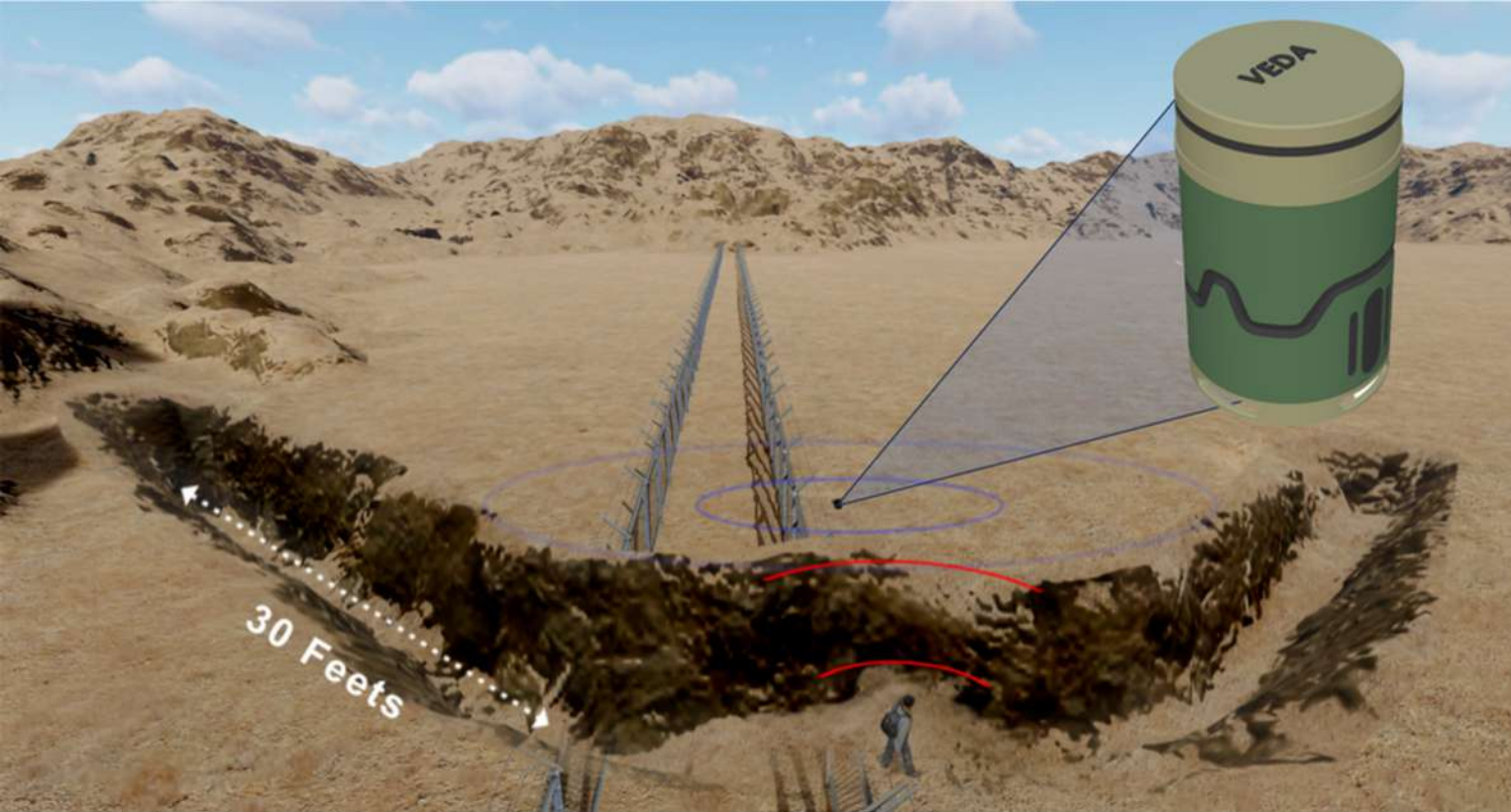
- Integration of Cutting-edge Technologies:
    - LASER Backscattering
    - Big Data & AI
    - IoT (Internet of Things)
  - Vibrational Sensing with Remote Surveillance
  - Wide Coverage for Instant Cross-Border Detection
  - Smart-Activity Differentiation
  - Rugged Performance
  - Real-Time Interpretation
  - Sound Recording
  - Portable and Compact.
  - Low Power Consumption.
  - Cloud-based Big Data Analytics and Streaming for Global Access.
- **Early Warning:** Swift alert system for timely response.
  - **Wide Coverage:** Spans 20km to 100km, adapting to soil characteristics.
  - **Smart Differentiation:** Intelligent identification of threats.
  - **Real-Time Analysis:** Immediate interpretation of events.
  - **Sound Recording:** Captures and processes intruder-generated sounds, enhancing identification.
  - **Multifaceted Approach:** Reinforces VEDA as a groundbreaking advancement in security technology.
  - **Adaptability:** Functions optimally in diverse environments.

### Application Areas

- Intrusion Detection
- Perimeter Security
- Border Monitoring
- Critical Infrastructure Protection
- Remote Site Security







## VEDA CATSMART BIG DATA

- CATSMART ML enhances vibrational pattern recognition.
- CATSMART AI classifies intrusions and identifies vehicles, humans, and differentiates animals.
- Real-time analysis and adaptation to changing conditions with CATSMART.
- CATSMART ML predicts intrusion points and detects unusual behaviour.
- Integration with CCTV and drones for enhanced visual analysis.
- CATSMART AI and ML improve sound-based intrusion detection.
- Efficient scalability with CATSMART AI and Big Data for VEDA.



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