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AI-POWERED CARGO INSPECTION SOLUTIONS

MEAP. Multi-Energy X-Ray Array Portal

Revolutionizing Cargo Inspection with AI-Driven Speed and Precision

The Multi-Energy X-Ray Array Portal (MEAP) is a revolutionary cargo inspection system powered by Multi-Energy Array (MEA) technology, It integrates multiple X-ray sources, including the LINOLAC particle X-ray accelerator, Dual-View imaging, and AI-driven analysis to deliver unmatched detection precision.

By combining multi-energy fusion with real-time AI processing, MEAP enhances material differentiation, threat detection, and operational efficiency, significantly reducing customer service time at checkpoints.

This modular, high-throughput solution delivers faster, more reliable inspections, making it ideal for customs, border security, and high-traffic logistics hubs.

The fundamental difference between MEAP and conventional systems

Traditional cargo scanning technologies rely on single or dual-energy sources that capture limited information from a single perspective. MEAP disrupts this model by introducing a distributed array of multi-energy X-ray sources, creating a highly detailed, multi-angle view of cargo in real-time. Instead of relying on a single-layered image, MEAP fuses multiple perspectives for superior clarity and depth.

BUILT FOR HIGH-STAKES ENVIRONMENTS

- Seaports
- Border Crossings
- Airport Customs
- High-risk Facilities
- Military Facilities

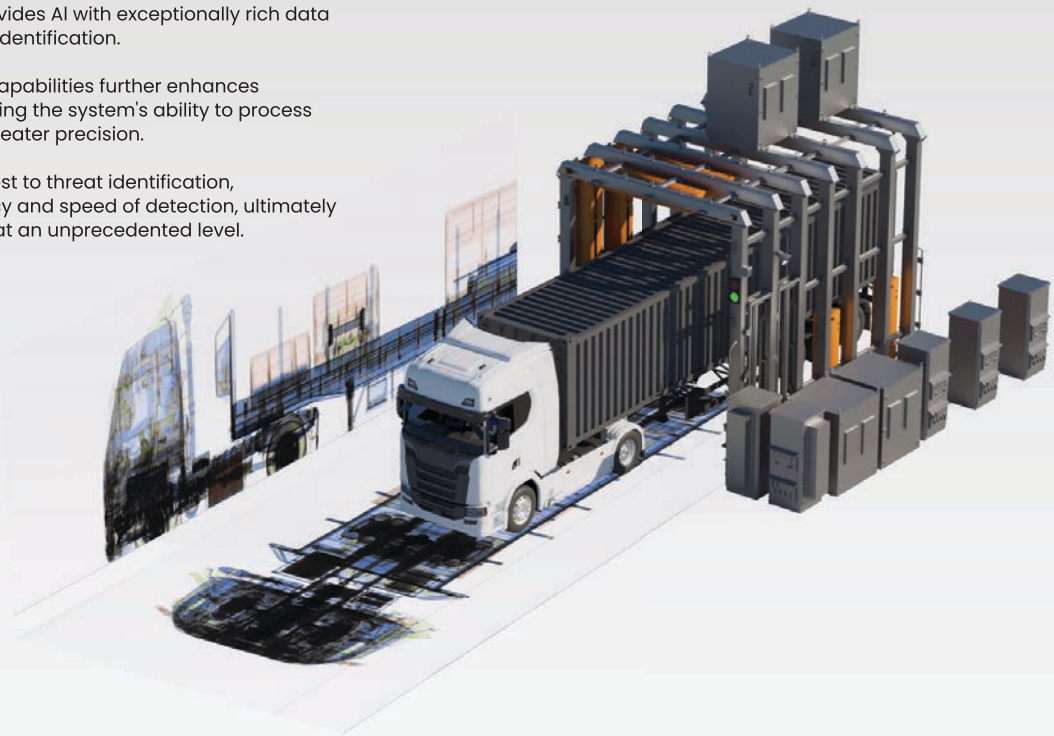
Why MEAP?

MEAP provides an unmatched level of detection accuracy by combining high-energy penetration, low-energy precision, and AI-driven real-time analysis.

1. Deeper cargo penetration without loss of detail
2. Greater material differentiation through multi-energy synergy
3. Automated AI threat detection, reducing human error
4. Elimination of blind spots with multi-angle scanning
5. Operating modularly and scaling flexibly from compact checkpoint units to full-scale gantries

How it works?

- Multi-energy imaging modules operate simultaneously, collecting high-contrast data across multiple energy levels and angles.
- High spatial resolution enhances the clarity and detail of the images, ensuring that even the smallest concealed threats are visible, and enabling precise differentiation between materials.
- By leveraging both higher spatial resolution and advanced material discrimination, the system provides AI with exceptionally rich data sets for more accurate threat identification.
- The integration of Dual-View capabilities further enhances AI-powered detection, amplifying the system's ability to process multi-perspective data with greater precision.
- This results in an AI-driven boost to threat identification, accelerating both the efficiency and speed of detection, ultimately optimizing security screening at an unprecedented level.



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info@linevsystems.com linevsystems.com

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