

# Multi-Energy X-Ray Array Portal

Revolutionizing Cargo Inspection  
with AI-Driven Speed and Precision



## SYSTEM HIGHLIGHTS

### Multi-Energy X-Ray Array Technology

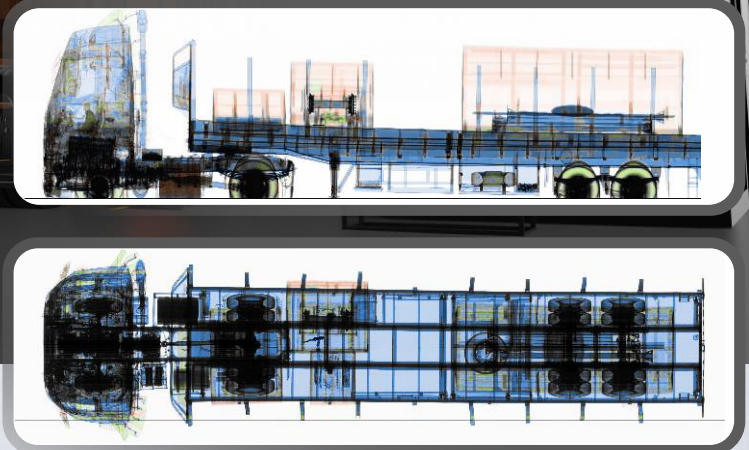
A coordinated array of high and low-energy X-ray sources provides unparalleled material differentiation and deep cargo penetration, ensuring superior visibility of concealed threats.

### Ai-Powered Intelligence

Advanced AI-driven analysis processes high-resolution, multi-energy data from multiple perspectives, enhancing anomaly detection, reducing false positives, and automating security decisions.

### Accelerated and Precision-Optimized Cargo Screening

By leveraging multi-energy imaging, Dual-View technology, and AI automation, the system doubles the speed and accuracy of threat detection, ensuring efficient, high-throughput inspections with minimal delays.



The Multi-Energy X-Ray Array Portal (MEAP) is a revolutionary cargo inspection system powered by Multi-Energy Array (MEA) technology, integrating multiple X-ray sources, Dual-View imaging, and AI-driven analysis for 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.

PATENT PENDING

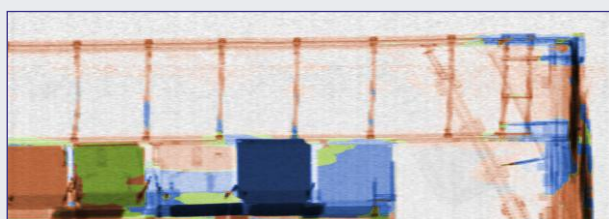


# MULTI-ENERGY ARRAY: REDEFINING CARGO SCREENING WITH AI-POWERED PRECISION

The **Multi-Energy Array** (MEA) technology is a breakthrough in cargo inspection, redefining how threats and contraband are detected through advanced multi-energy synergy and AI-driven analysis. Unlike conventional systems that require multiple passes or manual interpretation of low-resolution scans, **MEA** processes high-contrast, multi-energy images instantly. This reduces inspection times, increases detection rates, and improves operational efficiency, ensuring a seamless security process in ports, border checkpoints, and high-risk cargo hubs.

## What is the fundamental difference between MEA and conventional systems?

Traditional cargo scanning technologies rely on single or dual-energy sources that capture limited information from a single perspective. MEA 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, MEA fuses multiple perspectives for superior clarity and depth.



## What are the key advantages of MEA?

MEA provides an unmatched level of detection accuracy by combining high-energy penetration, low-energy precision, and AI-driven real-time analysis. This results in:

- Deeper cargo penetration without loss of detail
- Greater material differentiation through multi-energy synergy
- Automated AI threat detection, reducing human error
- Elimination of blind spots with multi-angle scanning

1. Multi-energy imaging modules operate simultaneously, collecting high-contrast data across multiple energy levels and angles.
2. 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.
3. By leveraging both higher spatial resolution and advanced material discrimination, the system provides AI with exceptionally rich data sets for more accurate threat identification.
4. The integration of Dual-View capabilities further enhances AI-powered detection, amplifying the system's ability to process multi-perspective data with greater precision.
5. 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.