

THEORY

Cabinet X-Ray

Most people are aware that X-Ray technology is used in airports to inspect baggage and in medical and dental offices to examine patients. However, though less familiar to the general public, X-Ray also plays an important role in food, pharmaceutical, chemical, packaging and other industries.

State-of-the-art X-Ray Inspection Systems from Eriez help ensure product and package integrity by reliably identifying contaminants, scanning for missing or broken products, detecting packing voids, confirming fill levels and controlling product and package mass and fat analysis.

To help users better understand how X-Rays are used for product inspection, below, Eriez addresses some frequently asked questions.

What are X-Rays?

X-Rays are a form of electromagnetic radiation, somewhat like light but of shorter radiation and with the ability to penetrate solids and ionize gases.

How do X-Rays work?

In the simplest terms, X-Rays penetrate an object only as deep as its density. Thus, a less dense object is reached by fewer X-Rays and a denser object is reached by more X-Rays. This provides the ability to detect areas of unlike density or composition.

What Capabilities Do Eriez X-Ray Systems Provide?

Eriez X-Ray Inspection Systems ensure product and package integrity by reliably identifying contaminants, scanning for missing or broken products, detecting packing voids, confirming fill levels and controlling product and package mass and fat analysis.

What are some additional benefits of utilizing X-Ray Technology?

X-Ray Inspection systems help customers meet food safety guidelines and ensure HACCP compliance.

How do X-Ray Systems Complement Metal Detectors?

Many food and pharmaceutical manufacturers utilize foil packaging. While it is not possible to use metal detectors to inspect these types of finished products, X-Ray Systems offer an effective inspection solution.

Are X-Ray Systems Safe?

Eriez X-Ray Systems are fundamentally safe for people and products. However, there are important safety guidelines that should be followed to ensure the highest level of safety. For complete safety information on Eriez X-Ray systems, contact Eriez.