RAYCON EX1
Product inspection system for slim and packaged products at moderate pricing

- Hygienic, Industrial Design
- Focus on Usability:
  - Best in class user interface
  - Best cleanability, maintainability
  - Easiest handling & installation

→ Easy decision!
The RAYCON EX1 product inspection system detects all contaminants that due to their density, chemical composition, or mechanical dimensions absorb X-rays better than the surrounding product. For example, this applies to metal, glass, ceramic, and stone contaminants in food materials. The RAYCON system also detects some types of plastics (e.g., PVC, rubber) as well as other product defects (e.g., trapped air, filling level).

The RAYCON EX1 product inspection system is characterised by the following performance features:

- **Inspection area:** 220/120 (W x H)
- **Throughput:** ~220 pcs./min. (product specific)
- **Detection capability starting from Ø 0.6 mm**
- **60W Low-Energy X-Ray generator**
- **Highest operator safety due to low X-Ray emission < 0.5µSv/h**
- **Total length of 800mm only**
- **Modular and stable frame design allows easy transportation and safe installation**
- **Ambient temperatures from 0°C to +40°C**
- **IP 54 protection class**
- **Reject system: signal only (for customer specific reject systems)**

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**Detectability of different materials depending on their density**

The system comprises the following main components:

- **A X-ray tube**
  This is where X-rays are electrically generated. The X-rays are emitted from the tube through a narrow slot and as a fan-shaped beam pass through the product to be inspected from back to front. Depending on the product height and density, a part of the X-rays is absorbed by the product.

- **B X-ray beam**

- **C Transport system**
  A PE flat belt (self-guiding) uniformly transports the product to be inspected through the X-ray beam, which makes it possible to scan the product line-by-line.

- **D Detector unit**
  The linear detector line that is installed beside the conveyor belt converts the arriving X-rays into an electrical signal from which a digital X-ray image is created.

- **E Industry-type PC**
  The PC is used to evaluate the images and to accurately control the reject systems.
Evaluation software

The product inspection system is equipped with a high-performance industry-type PC with real-time operating system and sophisticated visualisation software.

The system is operated by way of a 10” – LCD monitor with touch-screen.

X-ray images are evaluated by means of a product-specific visualisation software. Contaminated or defective products are detected and separated.

RAYCON EX1 design overview

Design & Hygiene:

Saving time for maintenance & cleaning due to:
- Inclined surfaces, water flows off easily
- Tool-less accessibility
- Tool-less removal of curtains in less than 1 minute
- Tool-less conveyor belt removal within 2 minutes

User Interface

Drag & Drop menus
The operator receives a visual feedback instantly
→ Time saving

Menu guide
The operator is guided by the software through necessary steps of product setup or troubleshooting
→ Time saving

Easiest and fastest product setup

Autolearn with 5 product samples only
→ Startup in less than 2 minutes

Retrain for automatic sensitivity adjustment.
Software increases/decreases sensitivity automatically due to operators command by just marking the x-ray image with fingers
→ Saves time consuming adjustments

No special knowledge required

Important information:

X-radiation is classified as ionising radiation. However, X-radiation is no radioactive radiation! In accordance with EU directive 1999/2/EC, Sesotec X-ray systems due to the minimum radiation energy can be used for the contaminant inspection of food materials even with organic products. The RAYCON product inspection system is subject to the German X-ray ordinance and requires certification. Please observe any country-specific regulations!

For detailed information please request our technical data sheet.
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