March 2018



Pharmaceutical X-ray Inspection System

KXE7510DGEKE

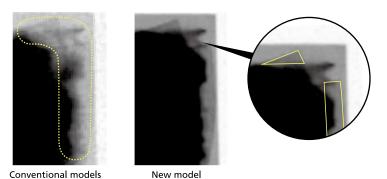




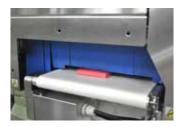


High sensitivity and high stability

The Anritsu Pharmaceutical X-ray Inspection System is equipped with a new X-ray unit most suitable for the inspection of thin products, which easily transmit x-rays. With significantly improved X-ray image quality and reduced variation in quality, which occurs in visual and tactile inspections, the system contributes to quality stabilization.



Our unique technology minimizes x-ray leakage so that a product with a height of 10mm or less can be conveyed without touching the leakage prevention curtain, which reduces the problem with false rejects caused by product jam or the disturbance of product orientation during conveyance. It also ensures that defective products are properly rejected at the correct timing.

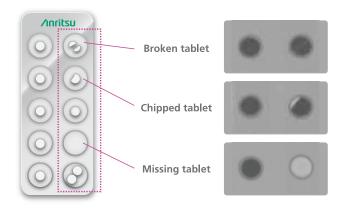


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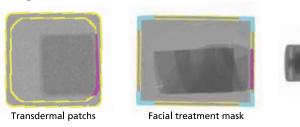
The system performs a variety of product integrity checks

The Anritsu Pharmaceutical X-ray Inspection System provides not only contaminant detection but also product verification simultaneously. Products in various types of retail packaging can be inspected for shape, count, and package check.

Shape Inspection / Missing Product Detection



Package Check



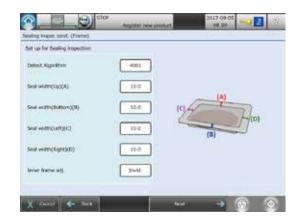


Setting the system with ease

Anyone can easily set the system to achieve high sensitivity.

Product Registration Navigation simplifies parameter setting procedures with step-by-step illustrated instructions. No fine adjustment is required, making it easier for anyone to set the system with the optimum use.

A simple product setup minimizes the time needed to register a new product, reducing the operator's workload.



Supporting FDA 21 CFR Part 11

The KXE7510DGEKE model corresponds FDA 21 CFR Part 11 regulation with Eligibility authentication, Audit trail, Data encryption and decryption which all deliver a piece of mind to processors in the pharmaceutical industries.

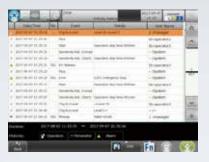
Eligibility authentication (User management)

Access level can be individually set for each user to prevent unauthorized operations and potential operator mistakes.



Audit trail

The history of operations and actions related to production, results of operation check are internally recorded. The data can be used to monitor fraudulent activity and analyze the cause of such activity.



Data encryption and decryption

Various data including statistical and parameter data from Audit trail can be easily transmitted.



No blind spot design prevents contamination.

The conveyor belts and rollers including the front cover and x-ray leakage prevention curtains can be easily removed or attached without tools for easy cleaning and maintenance.

The design with no blind spot prevents statistical discrepancies and contamination due to improper conveyance and products falling off the line.





Safety in design

Anritsu believes customer safety is of utmost importance.

The Anritsu x-ray system incorporates seven safety design features to ensure safe operation.

Emergency stop switch

Cuts power to x-ray and drive circuits, stops the conveyor and x-ray radiation

X-ray ON/OFF key

Turning the key to OFF stops x-ray radiation completely

X-ray shield cover open/close sensor

Opening the cover stops x-ray radiation completely

X-ray shield cover

Opened/Closed using x-ray irradiation ON/OFF key. Opening the cover stops x-ray radiation due to the x-ray shield cover open/close sensor



X-ray irradiation display

The lamp is lit during x-ray radiation

Leakage prevention curtain

Prevents x-ray leakage

Hand insertion sensor

Interrupting the sensor for a certain period of time stops x-ray radiation

Safety management

X-ray Inspection System has been designed to fully satisfy the safe operation. However, to ensure even higher safety, use the safety procedures outlined below.

- 1 Periodic measurement and recording of x-ray leakage data
- 3 Additional safety measures
 - Covers may need to be mounted on upstream and downstream conveyors instead of the shield curtains, depending on the shape, weight, and package of products.
- 2 Management of operator working hours
- 4 No disassembly or modification

NEVER modify or disassemble the main unit, covers, x-ray leakage prevention curtains, safety covers, safety interlocks, etc., otherwise the x-ray leak-proof design may no longer be functional.

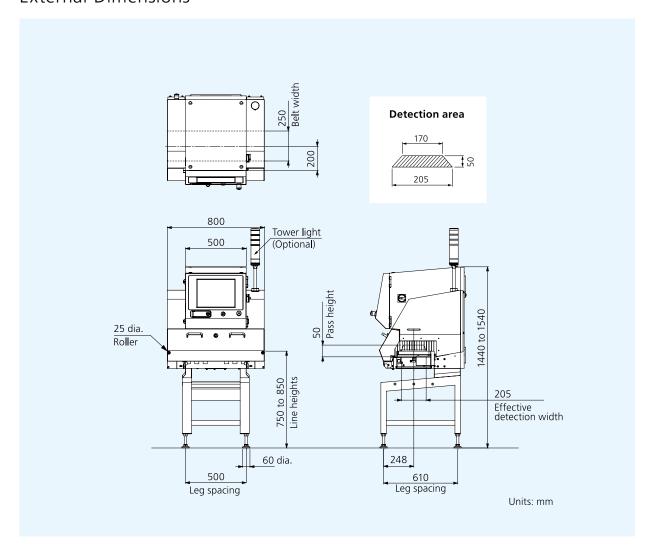
Safety of inspected products

It is your responsibility to check and ensure that you comply with all applicable laws and regulations of your country or region regarding the effect of x-ray exposure on pharmaceutical products. Anritsu conducted a research with the Nagoya City University about the effect of x-rays on the pharmaceutical quality of drug tablets and found that exposure to x-rays did not affect pharmaceutical quality of the drug content.

We exposed comercially available non-steroidal anti-inflammatory drugs (acetaminophen, loxoprofen and mefenamic acid) to x-rays of various doses from 0.34 mGy to 300 Gy, and evaluated the quality of the tablets using pharmaceutical tests. We found the samples exposed to x-rays exhibited almost the same profile in the tests as control samples (0 Gy). We also investigated the influences of heat and humidity on drug tablets after x-ray exposure, and confirmed that the combination of x-ray exposure with accelerated temperature and humidity tests (40°C, relative humidity 75%) also did not affect the phermaceutical quality. For more details, refer to the full report at http://informahealthcare.com/ddi

Anritsu Industrial Solutions Co., Ltd. (former company name) and Drug Delivery and Nano Pharmaceutics, Graduate School of Pharmaceutical Sciences, Nagoya City University (Drug Development and Industrial Pharmacy, 2015; 41(6): 953-958).

External Dimensions



Specifications



Model	KXE7510DGEKE
Safety	X-ray leakage maximum 1.0 μSv/h or less, prevention of x-ray leakage by safety devices, lead-free shield curtains with a 10 mm clearance from the conveyor surface as standard
Display	15-inch color TFT LCD
Operation method	Touch panel (with touch buzzer)
Detection area 1, 2	Maximum width 205 mm, Maximum height 50 mm
Belt width	250 mm
Preset memory	200
Belt speed ³ / Maximum product weight ⁴	10 to 90 m/min, maximum 2 kg
Power requirements 5	100 Vac to 240 Vac, single phase, 50/60 Hz, 1.0 kVA or less
Mass ⁶	230 kg
Environmental conditions	Temperature: 0°C to 30°C, Relative humidity: 30% to 85%, non-condensing
Protection class	IP40
Exterior	Stainless steel (SUS304)

- The product size should fall bellow the detection area.
 The entrance and exit may require covers depending on the length of a product.
 Variable depending on Product No.

- 4 : Sum total of product weight on the conveyor. 5 : Allowable power fluctuation range is ±10%. 6 : Mass without option.

Pharmaceutical Quality Assurance based on GMP

We offer a wide range of inspection solutions including weight check, contaminant and shape detection for the pharmaceutical manufacturing and packaging process.







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- To ensure proper operation, read the Operation Manual before using the machine.
- In addition to daily inspection, a full maintenance inspection should be completed annually.

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