

Anritsu

envision : ensure

ANRITSU INFIVIS



Corporate Brochure

Vision

With you, whatever the challenge

No matter how your quality assurance demands increase, we will be a dependable partner, bringing peace of mind to every aspect of your production.

Over the years, we've built world-leading technological ability and global expertise in stringent QA fields such as food and medicine.

We never stop improving. We work continuously with you to develop even better inspection technologies, optimize performance, and deliver new value throughout the production process.

We will be by your side, from the first step to the completion of your manufacturing chain.

Together, we can realize the true potential of QA for everyone



ANRITSU INFIVIS

Initiatives to Tackle New Challenges

Challenge 1 Improving Inspection Sensitivity with Artificial Intelligence

One example is detecting insects in food using transmission X-ray imaging. Although humans can intuitively spot shapes that look like insects, it is surprisingly difficult for machines to do the same. Our challenge is to dramatically improve inspection sensitivity by advancing research into next-generation inspection technologies using artificial intelligence.



Challenge 2 Overall Quality Assurance System Using Big Data

Inspection and production data from production lines can contain hints for calibration of manufacturing equipment, the yields of which vary subtly in response to daily changes in temperature and humidity. Our challenge is to create an overall quality assurance system that uses big data to both improve yields and ensure quality at high levels.



Challenge 3 Extending Scope of Inspection

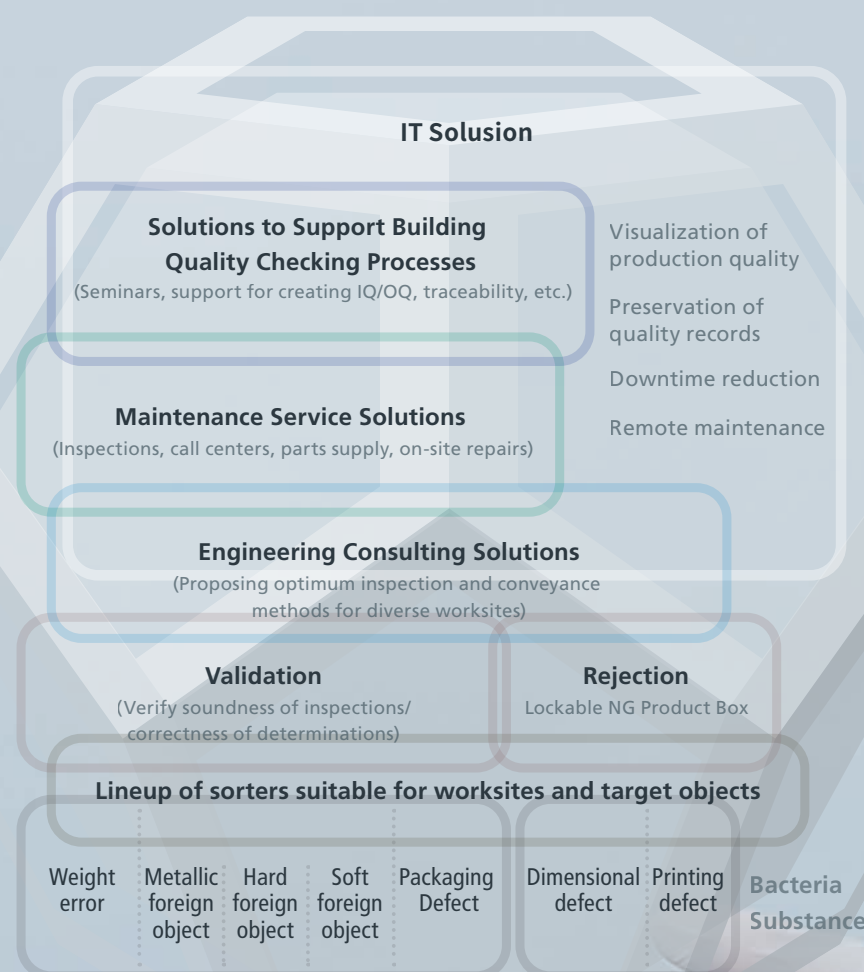
We have innovated in the space of signal processing and sensing technologies for over half a century. Even so, automation is still no match for visual inspection by humans in some areas. Our challenge is to continue to research a wide range of electromagnetic wavelengths, develop new sensing technologies, and create inspection equipment that equals or exceeds the performance of visual inspection, in order to help reduce human labor.



Products Quality Assurance

Anritsu Infivis offers production quality assurance (PQA) solutions.

The quality assurance solutions offered by Anritsu Infivis do not stop at quality checking, such as various types of inspection equipment on production lines. Anritsu Infivis offers total quality assurance solutions that include maintenance and management of equipment necessary for our customers to assure shipment quality, and support for such activities as building and improving quality assurance processes.



Business Fields

Anritsu Infivis offers inspection equipment, inspection systems, and other products and solutions that function on manufacturing lines, with a focus on food and pharmaceuticals. Most processed products sold in convenience stores, supermarkets, and other retail stores are inspected during the weighing, packaging, packing, and other manufacturing processes. The inspection includes checking the weight of packaged contents, detecting contaminants, and checking the packages. Anritsu Infivis' products and solutions work behind the scenes of our daily lives to help ensure the safety and security of food and pharmaceutical products.

- Contaminant inspection:** Metal detection, Hard contaminant detection, Soft contaminant detection
- Content check:** Missing or extra contents, Shape irregularities
- Package check:** Defective seals, Defective printing
- Weight inspection:** Quantitative check, Automatic grading
- Weighing:** High-speed automated weighing
- Production and quality management:** Centralized control, Monitoring, Statistical analysis, Traceability



We tackle our customers' complex and diverse challenges.

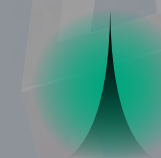
The sizes of markets and the level of quality demanded in the food and pharmaceutical fields are growing at an accelerating pace. Consequently, our customers' challenges are also becoming more diverse and complex. We have grown together with our customers by tackling these challenges through continual technical innovation. We will continue to take on new challenges, and break down the barriers of paradigms and limitations, to be our customers' quality-assurance partner.

Masumi Niimi, President

Challenge means exceeding limitations.

The scale is a symbol of Anritsu Infvis' originality; something not possible without the proper hardware, software, manufacturing technology, and worksite know-how. In order to enable rapid weighing with milligram precision, we have continued to advance through continual precise designs and elaborate simulations, and repeated experiments and validation.

Suppressing vibration noise and improving responsiveness. Thermal expansion of internal mechanical parts.



Our pride: Originality

Anritsu Infvis' scales incorporate our proprietary technologies to deliver high speed, precision, and stability.

High rigidity: We precisely analyze load in the vertical, horizontal, and torsional directions, and increase rigidity to create the optimum mechanism for dynamic weighing.

Advanced signal processing: We improve responsiveness by analyzing weighing vibration and eliminating unnecessary vibration noise. We also improve selection accuracy by greatly improving output resolution.

Thermal change resistance: We conduct precise thermal analysis, and greatly reduce fluctuations in weighing values due to changes in room temperature.



Challenge

We don't ask why it is impossible; we ask how to make it possible.

Anritsu Infivis has an integrated system that performs everything from development to manufacture and sale in-house.

To serve our customers, we immediately gather all departments, and work as a team to resolve issues.

We continue to have passionate discussions within the company; we believe that by identifying the essence of an issue through a multifaceted perspective, we can break through barriers that cannot be overcome by marketing, design and development, or manufacturing individually.



Passions leading a big innovation

When X-ray inspection systems first appeared, they had numerous issues, including the size of the body, operating costs, and limitations on operating environment.

We gather feedback directly from our customers. We go to customers' worksites to understand the issues ourselves. And we keep trying until we can resolve the issues. These day-by-day incremental improvements lead to major innovations; Anritsu Infivis' X-ray inspection systems can not only detect contaminants, but have evolved to the pinnacle of inspection systems, with the capability to check for defects in shape, count, and packaging as well.

Passions



X-ray Inspection System
XR75

We leverage our strength as a company that performs development and manufacturing in-house.

As a company that performs development and manufacturing in-house, and has over a half-century's experience at production sites, we are confident in our product support. We are committed to delivering our expertise in a more rapid and practical way. To this end, we are focused on enhancing our support system.

Customer Support Center
Anritsu

Earnestness

We operate globally in coordination with locals.

One of our strengths is flexible support tailored to our customers' needs.

We coordinate closely with our globally located development sites, manufacturing sites, and sales agents, creating the best solutions for our customers.

Co-creation

Speedy and Practically



Anritsu Infivis performs all stages from development to manufacture in-house. This gives us intimate knowledge of our products' unique characteristics. We are extending our support readiness globally in order to leverage this know-how in our customer support. We have a 24-hour call center in Japan, which is greatly appreciated by customers that continue production on weekends, holidays, and through the night.



We offer a sample testing service before a customer purchases our inspection system. Customers can use a product sample to confirm the actual inspection sensitivity they can obtain.



We offer technical seminars tailored to our customers' needs. We conduct lectures on such topics as the operating principles and usage of our products, and quality management.

Global Supply Chain Management



We are strengthening our supply chain with overseas subsidiaries and affiliates in order to offer flexible and speedy support to customers operating globally. This enables us to deliver products with the specifications our customers require by their desired delivery date.



Our Thailand plant is our main plant for Metal Detectors. It supplies products and units in Thailand and worldwide. In addition to Metal Detectors, it also supports products specific to the ASEAN region.



Our China plant is mainly responsible for the manufacture of Checkweighers and Metal Detectors for China. It delivers products in accordance with customer requirements from a nearby location.

It started with signal processing innovation.

In the early 1960s, a high-sensitivity displacement sensor that came out of development of measuring instruments gave rise to the first Checkweigher.

Since then, Anritsu has a more than half-century history of creating high-level technologies and products with originality, and sharing and realizing its vision together with its customers.

Innovation

Since 1964

Anritsu's Checkweigher was born not long after the advent of tabletop electronic calculators. The Checkweigher is based on the "electronic micrometer" that measures displacement electrically at the micrometer scale. Then Anritsu came up with an innovation: Leveraging the high-speed reaction of the electronic micrometer, it created a scale that could weigh items with a high degree of accuracy while they were in motion on a line. Our first Checkweigher K501A was equipped with this scale.



The electronic micrometer was the source of our Checkweighers. As symbolized by this product, which measures displacement electronically, electronics are in Anritsu's DNA.

1895

Anritsu's Founding



[Left] Morse code printer (1897)



[Right] Japan's first public telephone booth (1900)

Anritsu's predecessor, Sekisan-sha, was founded around the time when Marconi successfully created a wireless telegraph using radio waves, and Roentgen successfully made an X-ray photograph. It manufactured communication devices, such as Morse code printers and telephones.

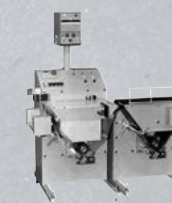
Anritsu's history traces the same path as that of signal-processing technology, with a focus on communications.



[Left] Marconi's trans-Atlantic wireless communication experiment
[Right] X-ray photograph by Roentgen

1964

From Sensing Technology to Innovation in New Markets



Checkweigher K501A (1964)

Around the time Japan entered its period of high economic growth, packaged foods became popular, and strict labeling requirements for weight followed reforms to weighing methods. Against this historical backdrop, our Checkweighers, which could rapidly determine weight and perform weight check in-line, promoted manufacturers' factory automation, especially in the food and pharmaceutical fields.



Checkweigher for Capsules K515 (1970)

Anritsu was quick to develop weight checkers that could detect minute weights. The K515 was specialized in 100% inspection of capsule pharmaceuticals, which require strict weight control. It boasted the capability to sort 600 capsules per minute with an accuracy of ± 2 mg.

1970

Meeting Needs with High-level Issue Resolution



Checkweigher 8 Series (1970)

Anritsu achieved both higher performance and lower prices through a complete redesign and creation of high-efficiency model variations that matched market needs. Adoption of Checkweighers grew, and the automation of production lines accelerated. This series of Checkweighers were huge hits, and reached the point where they were considered the de-facto standard of the time.

1990

Innovation in Sensing



Metal Detector KD80 Series (1991)

This product was the first in the world to be equipped with an "auto-setting" feature, which automated the phase adjustment work that had been dependent on the intuition and experience of experts. Our independently developed sensor achieved both high sensitivity and stability, and features such as water resistance and one-touch attachable/detachable conveyors made this product a market hit, and it set sales records.



X-ray Inspection System KD72 Series (2000)

This was Anritsu's first X-ray inspection system, and was developed in-house. In that time, X-ray inspection systems were large and expensive. This product was compact and nearly half the price, contributing to the wider adoption of X-ray inspection systems.

2010

Creating Value through Total Quality Assurance



Overall Quality Management and Control System QUICCA (2007-present)

This system greatly extends the concept of conventional systems that record and manage quality data. It supports a wide range of features, including monitoring of the operational status of equipment in the production line, production analysis, and remote control. In the 2010s, it gained such additional features as food defense via a monitoring camera, and production performance analysis and diagnostics, evolving into a tool that supports our customers' entire production processes.



The rise of social media has ushered in an era when a single food incident can destroy a brand. Food makers are under pressure to create stricter quality assurance, including measures against malicious adding of contaminants. With recent rising global interest in sustainable society, reducing food loss is gaining attention as a new challenge.



Europe

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U.A.E.
Saudi Arabia
South Africa
Turkey

Asia and Oceania

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Philippines
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Americas

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United States
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(as of April 31, 2018)

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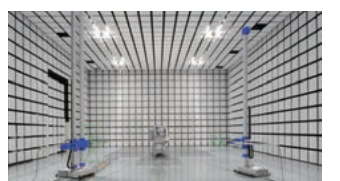
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