

ANRITSU INFIVIS



Providing reassurance: side by side, boundlessly and globally



Anritsu Infivis is a member of the established Anritsu Group, which boasts a history spanning over 120 years. Since the start of food industrialization in 1965, we have been working together with our customers in the foodstuffs and pharmaceuticals industries and cultivating advanced technical and on-site capabilities in quality inspection for over half a century. It is thanks to our customers that we have been able to accumulate such strengths. So I would like once again to express our gratitude.

The 2020 VISION outlines the shape of the Company in 2020. It has established the aim to "become a global market leader with world-class quality assurance solutions" through the provision of "products pursuing quality assurance" and "high-quality services" and by creating and developing together with our corporate clients.

Nowadays, consumers' expectations for quality assurance in foodstuffs and pharmaceuticals are ever increasing. To meet these expectations, we must not only focus on the mass and contamination with foreign objects, but also on diversified and sophisticated inspection methods and devices that cover areas such as the shape, packaging and labeling of products. Furthermore, expectations are rising for quality assurance solutions such as traceability systems and information management systems with security systems by camera monitoring.

In order to meet these consumer needs, we are continuing to refine our "sincerity, harmony and enthusiasm," which represent the spirit of Anritsu we have inherited, as well as our "Original & High Level" products and services, which are behind our successes. We are committed to working even more closely with our customers and business partners in the foodstuffs and pharmaceuticals industries so that we improve together and find sophisticated solutions for quality assurance issues.

We will continue to share our vision with customers and take up the challenges for realizing a stable supply of safe foodstuffs and pharmaceuticals by providing more advanced quality assurance. We are dedicated to realizing a future when people around the world can live safe, secure and prosperous lives.

Antinite Mision Wision

Realizing a safe and secure society where everyone can live a healthy and abundant life is a desire shared by all human race.

Since the industrialization of food began over half a century ago, we have been cultivating our high technological and on-site business capabilities of quality inspections with our customers engaged in the food and pharmaceutical product industries.

We will continue to share visions with our customers and strive to realize a stable supply of safe food and pharmaceutical products through enhancing quality assurance.

Infivis embodies
Infi(nite) future possibilities in the
-vis(ion) we share with our customers

We will continue to work towards realizing a future where all people can live safely, securely, and healthily.

Always by your side

ANRITSU INFIVIS





Commitment to real solutions yields sophisticated quality control.

X-ray Inspection

[Contaminant Detection]
[Quality Inspection]

X-ray inspection renders visible things that cannot be seen directly. The applications are constantly expanding for this powerful technology, which is used not only for inspection for contaminants but also to detect defects in shape, quantity and other aspects. Always searching for greater reliability and sophistication in quality control.

X-ray inspection.

Product lineup

Topics

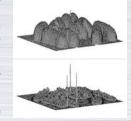
High Definition Models, Ultra High Definition Models, For unpackaged products, For large and wide products, etc.

Anritsu continues to develop original solutions for

Anritsu's superior expertise in image processing and electronics open new horizons in high-sensitivity detection and fine customization.

Before signal processing, X-ray images tend to suffer from considerable noise, deriving from the shape, consistency and other characteristics of the product. With the patient accumulation of original research, Anritsu

succeeded in developing a number of powerful algorithms for signal processing and image analysis, enabling it to extract accurately just the signals generated by contaminants. Moreover, because we develop all our products inhouse, we know the details of our products inside and out, so we can precisely tune each component to each customer's needs. The result is the delivery of customer-specific X-ray inspection solutions as only Anritsu can.



The image above is the unprocessed image; the image below shows the 3D image rendered after image processing. Different image filters highlight different contaminants.

Unique ideas and technologies yield highly reliable metal inspection.

Metal Detection

[Detection of Ferrous/Nonferrous Metals] [Detection of Metals in Aluminum Packaging]

Anritsu boasts a long history in Metal Detectors as a basic means of inspecting for certain contaminants. Using the properties of magnetic fields, these systems detect metals such as iron, stainless

steel and aluminum. Anritsu's original ideas and technology enable metal detection with outstanding sensitivity and stability.



Product lineup

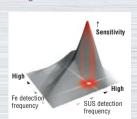
duw series: Standard models, High-sensitivity models, For bottles, etc. M series: For aluminum foil packaged products

Topics

Magnetic-field control: A prescient technology, courtesy of our engineers' relentless spirit of inquiry.

Anritsu Metal Detectors find contaminants by detecting fluctuations in magnetic fields, which are generated when contaminants pass across their sensors. Different metals have different characteristics, among which are the frequencies at which they react to magnetic fields. As one of the

first companies to recognize the applications for this phenomenon, Anritsu quickly patented a series of technologies for high-precision detection of these various metals. After overcoming a procession of technological obstacles, Anritsu succeeded in developing commercial applications. This remarkable innovation in such a mature field was made possible by the relentless spirit of inquiry of Anritsu's talented engineers.



Simultaneous detection using two magnetic fields: Magnetic fields are generated at two frequencies to detect both Fe and SUS with high sensitivity.



From Scales to Checkweigher, Anritsu designs and develops all products in-house. This 'Total Integrated System enables Anritsu to develop highly flexible solutions, precisely meeting the needs of its customers.

Weight Inspection

[Quantitative Inspection] [Missing Product Detection] [Automatic Grading]

Automatic Weight Inspection Equipment (Checkweighers) is indispensable in checking for product weight and missing products. Anritsu's Checkweighers not only weigh products with high speed and precision, but also easily link with data from fillers and packagers to serve a proving and recording function, supporting Good Manufacturing Practice (GMP) validation as well as quality-control systems such as Hazard Analysis and Critical Control Point (HACCP). To ensure accurate response to each customer's precise needs, Anritsu offers an extensive lineup of these systems, delivering comprehensive solutions for quality control.

Product lineup

SSV Series: High accuracy and High speed models, Waterproof models, Versatility models For large and wide products, For bottles, For capsulles, For fresh fish, etc.

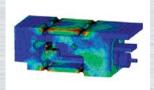


Topics

An extensive track record: Anritsu's dynamic weighing technologies deliver exceptional speed and accuracy.

Anritsu's electromagnetic balance can conduct up to 600 weight measurements per minute, with milligram-level precision. Using a highly rigid structure and Anritsu's original dynamic-filter technology, this system achieves unbelievable measurement speed and accuracy. Technologies such as these are the product of Anritsu's tradition of uncompromising design combined with repeated and patient simulation, testing and proving. Farsighted processes such as these are the key to Anritsu's

success in technological evolution. Though each scale may be small, each represents over 40 years of painstaking progress in measurement technology at Anritsu.



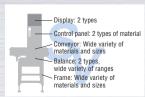
Hardness simulation using CAD

Topics

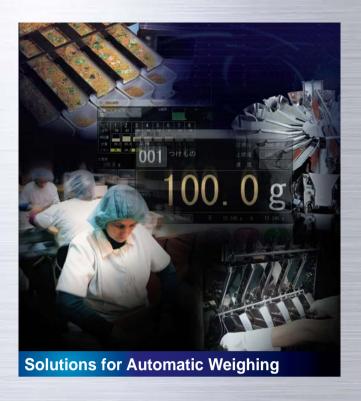
A lineup of over 700 products: Close attention to customer needs led to the adoption of modular construction.

Whatever the product, from candies of just a few grams to sacks of sugar weighing 30kg, Anritsu has the right weighing solution for each customer. The variety of customer needs is endless, varying by size, length and shape of items weighed, speed of the production line, and many other factors. Since its earliest days, Anritsu customers have demanded custom-made weight-measurement systems. To better serve this

demand, Anritsu developed the SV Series Checkweighers, which are manufactured using a modular construction system. A series of units can be easily combined to furnish a highly varied lineup of over 700 device types, ensuring a perfect match for virtually any customer need.



Overview of the SV Series' modular construction system





Gentleness is a key characteristic for Anritsu automatic-weighing products.

Automatic Combination Weighers

[Single-type weighing] [Mixed weighing]

The power of Automatic Combination Weighers is clearly evident in processes that fill and package specified weights of foodstuffs at high speeds. Anritsu Automatic Combination Weighers not only deliver high speed and precision, but also incorporate a wide palette of techniques for protecting food and maintaining hygiene. Our

weighing solutions are gentle to customers in numerous ways.







Product lineup

For dry foods (snacks, candies, pasta, chocolates, etc.), For wet foods, For sticky foods, etc.

Anritsu supports superior quality control with system solutions tailored to each production site.

Production / Quality Management Systems

[Comprehensive Production Management System], [Traceability System], etc.

Large-scale food-production lines incorporate dozens of processing devices and inspection devices. To ensure both productivity and quality, devices must be monitored in real time and carefully controlled. Drawing on a wealth of expertise, Anritsu creates system solutions that meet and exceed customer expectations in production and quality control.

Product lineup

Quicca:Overall quality management and control system, Control and monitoring systems

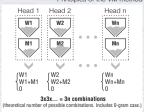
Topics

High performance in a simple structure: Excellence in Automatic Combination Weighers springs from original ideas at Anritsu.

Generally, the faster a weighing system operates, the more complex its structure needs to be, and the greater grows the possible damage to the foodstuffs it measures. To solve this problem, Anritsu created the Vertical Memory (VM) method. This revolutionary system delivers a quantum leap in weighing precision while radically simplifying the structure, ensuring that the products measured are handled gently at all times.

Principles of the VM method





Topics

We add a rich mix of techniques and innovations to make production managers' burdens lighter.

"Is there trouble anywhere? Are we maintaining quality?" The work of a production-line manager can take a considerable toll on the nerves, especially in the modern age of 24-hour, large-scale factory automation. Anritsu's comprehensive production management and control systems do

far more than just gather production data. They also provide a basket of services to reduce managers' stress, such as remote control from the control office and alerts to mobile telephones in cases of trouble. These innovative tools alleviate the burden of production management and deliver powerful backup for excellent quality control.



Quicca:Overall quality management and control system



Peace of mind before purchasing: Sample testing service

Before selling any inspection system, Anritsu conducts a battery of sample tests. Using actual products, we confirm the level of precision achieved under actual working conditions. Because detection accuracy and optimum conditions can be confirmed in

advance, customers can purchase Anritsu products with complete peace of mind. Even if the test results do not meet customer expectations, Anritsu can examine and propose solutions.

Comprehensive support for quality control ensures maximum effectiveness: Technical seminars

One way we ensure optimum performance is through a wide range of technical seminars. These series of presentations cover an array of topics from operating principles and usage procedures to the latest trends in quality-control technology. Many seminars are presented regularly and are open to the

public, while more specialized seminars can also be prepared for the specific needs of individual customers. In each case, our goal is to provide comprehensive, multifaceted support for our customers' quality-control activities.

Various technical seminars



Anritsu performs product tests and offers technical seminars in various countries.



Safe operation forever: Preventive-maintenance workshops

Inspection systems are precision machines. Maintaining them in good condition over the long term requires accurate knowledge and regular inspection. With this goal, Anritsu offers preventive-maintenance workshops, aimed at the operators who use the equipment on production lines. These

workshops offer knowledge on handling the products safely, routine maintenance procedures, and other useful tips. Because they deal with actual conditions on the customers' production sites, the workshops are consistently practical, easy to understand, and well-received.



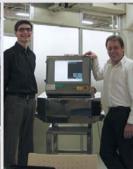
In the production-equipment business, a product without a maintenance package is of little use

In the production-equipment business, a product without a maintenance package is of little use. With every Anritsu product, our mission is to deliver tangible benefit to customers. After-sale service plays an important role in fulfilling this goal, maintaining equipment in good running condition and ensuring rapid response in the event of trouble. At Anritsu, when we sign a vendor contract

with an agency in any country, we ensure as a non-negotiable condition that the agency can provide top-notch maintenance service. We also offer service training in each region, improving the technique and knowledge base of service professionals. Whether the customer buys an Anritsu product from a local affiliate, an agency or Anritsu itself, dependable maintenance service is our promise.







This is a service training held in Japan. Technicians learn techniques and gain knowledge through both lectures and practical training.



Agents' technicians who receive our service training will be provided a certificate upon completion.

Quality Control

Our customers' quality control begins with our quality control

The Inspection Equipment we sell to customers is the foundation on which their quality-control efforts depend. Its stable performance must be assured at all times.

All Anritsu products are manufactured under rigorous quality control, based on the ISO 9001 quality management system.

highest standards always, without lapse or exception. In environmental management systems, Anritsu is certified under ISO 14001, ensuring

stringent control over the

This commitment ensures the

environmental impact of our business activities.

Quality control in weight standards is also vital.

A strict traceability system, based on national reference materials, supports uncompromising uniformity in weight.









Wherever you are in the world, Anritsu is by your side.

A Global Maintenance Network

Anritsu is strengthening its maintenance network on a global scale. Our goal is to provide customers with the same consistent, high quality maintenance services everywhere in the world. With each passing year, our maintenance network is expanding; today it encompasses some 50 countries and regions. We recognize that customers with a global business reach require dependable maintenance services wherever in the world they operate.





Service Network

Europe

Austria Belgium Croatia Denmark Estonia Finland France Germany Greece Hungary Italy Latvia Lithuania Luxemburg Netherlands

Norway Poland Portugal Russia Spain Sweden

Switzerland United Kingdom (Subsidiary, Agency)

Asia and Oceania

Australia China (Subsidiary, Factory) Hong Kong

India Indonesia

Japan (Head Office)

Malaysia Philippines Singapore South Korea Taiwan

Thailand (Factory, Agency)

Vietnam

Anritsu Industrial Solutions Europe Ltd.





Americas

Argentina Brazil

Canada

Chile

Costa Rica

Ecuador

Honduras

Guatemala El Salvador

Mexico

Panama

Peru

United States (Subsidiary, Agency)

Venezuela

Anritsu Industrial Solutions USA Inc.



Africa and Middle east

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Anritsu Industrial Solutions (Shanghai) Co., Ltd.



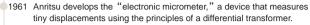
Anritsu Industrial Solutions (Thailand) Co., LTD.

Continuous innovation for assured safety and security

●Anritsu products

- -1895 Sekisan-sha (later renamed Kyoritsu Denki Co., Ltd.) is established.
- -1900 Annaka Electric Company is established.
- —1931 Kyoritsu Denki and Annaka Electric Company merge to establish Anritsu Denki Co., Ltd.

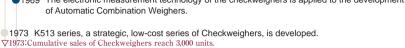






■1964 The technology of the electronic micrometer is refined to develop the "Checkweigher". Sales are brisk, buoyed by rapidly growing availability of bagged products as supermarkets expand.

The electronic measurement technology of the checkweighers is applied to the development 1969 of Automatic Combination Weighers.



-1975 The Industrial Machinery Division is launched

1977 Eight series of Checkweighers is launched and becomes a hit product.

Contaminant Detection

1981 K470 series of Metal Detectors is developed using magnetic-sensing technology.

V1984 Cumulative sales of Checkweighers reach 10,000 units.



1985 The company name is changed to Anritsu Corporation



Advertises the change



1989 Hi series of Checkweighers is developed.

The series passes rigorous tests set by public agencies in various Western countries, spurring exports.

√1989 Cumulative sales of metal detectors top 4,000 units.

1991 KD80x series of Metal Detectors is developed. Becomes a hit product, with rapid growth in orders from foodstuff producers.



1994 FC series of Checkweighers is developed.

1994 Clean Cap Scale of Automatic Combination Weighers is developed. Capable of measuring even highly sticky foods, Wins numerous engineering and other awards both in Japan and overseas.

√1995: Cumulative sales of Checkweighers reach 30,000 units.





1998 IP series of Checkweighers is developed. IP66's water- and dust-resistant features meet HACCP standards.

1999 KD80xx series of Metal Detectors



2000 SVh series of Checkweighers is developed.

GMP validation is obtained, and a wide-ranging lineup is created using modular construction. 2000 Clean Multi Scale of Automatic Combination Weighers is developed.

. 2000 Anritsu develops X-ray Inspection Systems, ushering in a new age of x-ray and image-processing technologies.





2002 KD73 series of X-ray Inspection Systems is developed.

2003 SVf, SVi series of Checkweighers are developed. 2003 Cube series of Automatic Combination Weighers



2004 duw series of Metal Detectors M series of Metal Detectors





2006 KD74 series of X-ray Inspection Systems

2008 duw-h series of Metal Detectors



2011 SSV series of Checkweighers

2011 Dual energy sensor technology X-ray Inspection Systems

2012 KDS series of Metal Detectors



2014 M5 series of Metal Detectors

2014 XR75 series of X-ray Inspection Systems



X-Ray Inspection

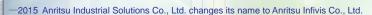
Over 9,000 installed as of March 2016

Metal Detection

Over 50,000 installed

Checkweighing

Over 70,000 installed





















Overseas operations	Market trends	
	■ Steady accumulation of wireless technologies, measurement technologies and electronics technologies	
	◀ Launch of industrial-machinery business	
©1968 Anritsu begins exports to Europe.	 ■ Expansion into overseas markets ■ Diversification of product fields 	
©1980 Anritsu begins exports to other Asian countries. Automatic Combination Weighers in a Chinese food plant	 Rapid expansion in tandem with Japan's period of fast economic growth Anritsu expands into contaminant inspection equipment. Consumers' increasingly demand for quality. 	
	■ Increasingly strict international standards spur advancements in performance and function.	
	Hygiene management in foodstuff production lines becomes increasingly sophisticated.	
	Awareness of food-safety issues grows. Anritsu Industrial Solutions becomes a separate company, reorganizes to enable more nimble operations.	
©2003 A local affiliate is established in China.	■ Anritsu attains a truly global business presence.	
©2005 Local affiliates are established in the United States and the United Kingdom.		
©2008 Thailand plant begins its operations. ©2013 China plant begins its operations.	Anritsu developed its first checkweigher in 1964. Since that time, Anritsu has unflaggingly pursued one technological breakthrough after another. Our products are used not only to measure weight and detect contaminants, but to inspect the quality of products themselves. We also offer a wide range of production and quality	
	management systems and solutions, to establish traceability. By gathering together our wealth of accumulated technologies and solutions, and continually adding new technologies, we are contributing to the achievement of a safer, more secure society.	



ANRITSU INFIVIS