



**Japan Radio Co., Ltd.**  
Company Profile  
2024-2025



JRC Website



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# Providing Safety and Security to Society To be a True Solution Provider

Since its founding in 1915, Japan Radio Co., Ltd. (JRC) and its Group companies have responded to the diverse needs of customers by providing products and systems that utilize wireless technology.

The world is currently undergoing significant change. Global-scale social issues are becoming increasingly serious. These include natural disasters that are growing more intense due to climate change, the impact of infectious disease outbreaks and conflicts between nations on economic and social activities.

Meanwhile, rapid technological advancements in information technology (IT), such as artificial intelligence (AI) and the Internet of Things (IoT), are completely transforming industrial structures and business models.

Our group will continue to respond to various demands for realizing a sustainable society by leveraging a wide range of wireless technology applications and expanding our reach. We will focus on sensing data and transmitting information for IoT, as well as on creating value from data obtained through the latest IT technologies.

The ability to solve problems using technology is coded into the DNA of the JRC Group. Our management philosophy states that “We, JRC Group shall deliver excellent value and contribute to a bright future for people, society and the world through wisdom and creativity.” In keeping with this philosophy, we will continue to contribute to society by solving social issues and providing value to our customers as a “true solution provider that provides safety and peace of mind to society.”

We look forward to your ongoing support.



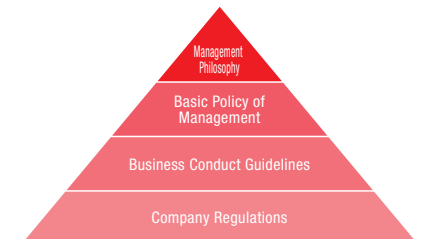
Representative Director  
and President  
Takeshi Koarai

Each and every employee strives to realize JRC group management philosophy through his/her actions.

## Management Philosophy

We, JRC Group shall deliver excellent value and contribute to a bright future for people, society and the world through wisdom and creativity.

JRC has established four levels of a code of conduct for our officers, employees, and people we work with.



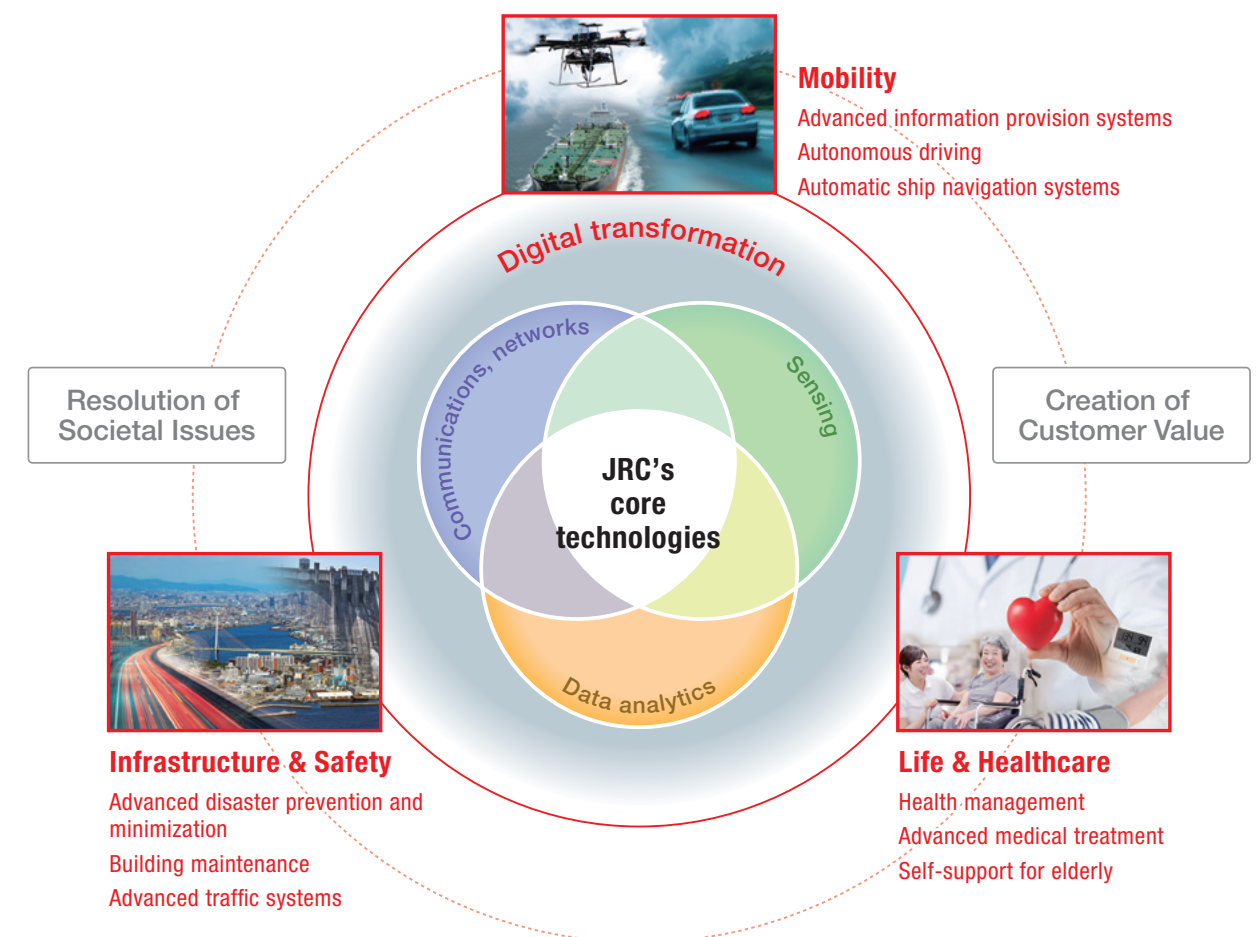
### Basic Policy of Management

- We will use creative and inventive ideas to develop our original and unique technology.
- We will respect each other to build mutual harmony and benefit.
- We will engage in fair and equitable business activities and fulfill our social responsibilities.
- We will get aware of the needs of society and take on a challenge seizing every opportunity, then realize them.

### Business Conduct Guidelines

1. Respect for Human Rights
2. Thorough-Going Compliance
3. Respect for Diversity
4. Awareness and Concern towards our Environmental Impact
5. Safety is the Basis for Everything
6. Fair and Transparent Business Practices
7. Boldly Striving Forward
8. Innovation
9. Quality Communication

## Strategic Business Domains







- Integrated bridge systems
- Cloud/information services (Ships DX)
- Navigational instruments
- Marine communications equipment
- Fishing equipment

### Marine Systems Division

We provide high-performance, high-quality products for the global shipbuilding sector by leveraging our expertise in ship equipment accumulated over many years and advanced technical capabilities related to radio communications. Going forward, we aim to provide safety and peace of mind for autonomous ship navigation.



Marine systems and products



Marine radar antennas



Smart bridge deployment examples



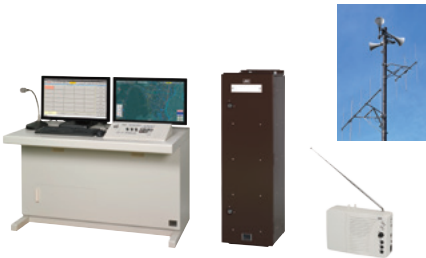
- Disaster prevention information systems
- River management systems
- Aeronautical surveillance systems
- Weather radar systems
- Traffic information systems
- Radio broadcasting systems

### Solution Business Division

JRC supports the comprehensive implementation of infrastructure essential to the society. We offer a best solution for various projects based on our highly reliable products.



Land systems and products



Radio broadcast systems for disaster prevention



Airport meteorological doppler radar



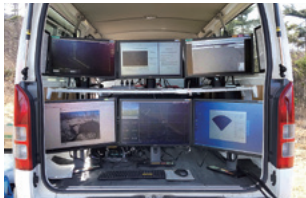
- Radar equipment and systems
- Communication equipment and systems
- Wireless applied equipment and systems

### Defense Systems Division

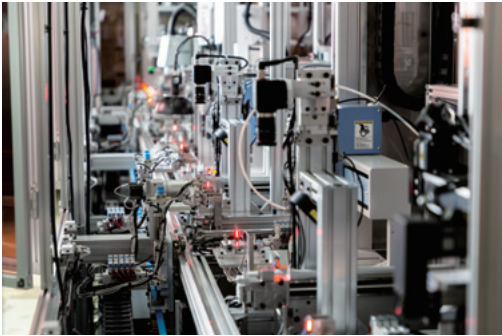
We provide wireless application equipment and systems to Japan's Ministry of Defense. We also aim to expand into the aviation and space industries, which we see as potential growth areas.



Unmanned mobile image transmission systems (unmanned aerial vehicles)



Unmanned mobile image transmission systems (ground stations)



- Information and communication equipment
- Production equipment
- Winding components for xEV power supplies

### Information and Communication Technology / Mechatronics Businesses

Nagano Japan Radio Co., Ltd.

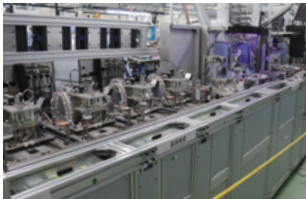
We contribute to the realization of smart cities, smart factories, and a decarbonized society through specified low-power wireless systems, automatic production line, and electronic winding components for next-generation automobiles.



Nagano Japan Radio



Electronic paper display tags



Automatic assembly line



- Ultrasonic medical transducers and probes
- Image processing equipment
- Ultrasonic application equipment
- Analyzers
- Wireless healthcare devices
- Wireless applied equipment

### Healthcare Equipment Business

Ueda Japan Radio Co., Ltd.

We offer advanced medical electronics equipment that meets the high demands of the medical industry, with our core strengths being ultrasonic and wireless technologies.



Ueda Japan Radio



Portable ultrasound systems



Allergy screening test kits



Systems for monitoring people who need nursing care



### Mobility Business

JRC Mobility Inc.

We contribute to society by providing outstanding technology that delivers high productivity for a mobile society in the areas of connectivity, sensing systems and mobile infrastructure.



JRC Mobility



Equipment for ETC2.0-compatible vehicles



Millimeter wave radar



Multiband in-vehicle radio

- ETC2.0 equipment for cars and motorcycles
- Connected in-vehicle terminals / TCU
- High-resolution perimeter surveillance radar
- Multiband mobile radio for Mission Critical Communications
- Distributed Antenna System (DAS) for mobile communications
- Railway systems for safety



## Deploying wireless communication technologies amassed over more than a century to meet the needs of the times.

Since its foundation, JRC has continued creating products at the leading edge. Based on technologies and know-how amassed over more than a century, we have deepened our core technological expertise in such areas as antennas, signal processors, amplifiers, and networks. In the communications field, which has advanced significantly in recent years, we help build a prosperous

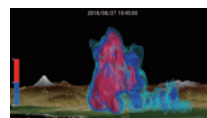
society by providing solution-based services that meet the sophisticated needs of society. JRC's R&D mission is to foster the creation of a better society by connecting people, things, and communities. We tackle R&D challenges so that we can contribute to safety and peace of mind in the world.

### World-leading technologies born through JRC's research and development



#### Wireless technology advancement: High-capacity communication systems

As part of our efforts to develop high-capacity technology for upgrading infrastructure systems, we have achieved 4096 QAM multi-level modulation in our ultra-high multi-level modulation and demodulation technology. In millimeter-wave broadband transmission technology, we have achieved high-capacity transmission exceeding 5 Gbps in a 60 GHz-band proximity radio system. Going forward, we will work on infrastructure development, including in areas beyond 5G, and contribute to the realization of next-generation infrastructure systems.



3D Image of Rain Intensity



Antenna Image of Phased Array Radar

#### Radar system advancement: Phased Array Radar

As the number of extreme weather disasters increases, weather information with high temporal and spatial resolution is required. Our phased array radar achieves high dense observation for the whole sky in 30 seconds. Hereafter, more accurate observation will be required for accurate weather forecasting and resolving mechanism of hazardous clouds. We will solve the requirements by developing dual polarization phased array radar with simultaneously transmitting and receiving horizontal and vertical polarization waves.



High-Precision, Non-Contact Solutions for Sensing Vital Signs

#### Allows heart rate and respiratory rate monitoring without touching the body

Utilizing radar technology cultivated over many years, we have developed this system to continuously monitor the heart rate and respiratory rate of a patient through their clothing and without touching the patient's body. The system measures heart rate with an accuracy equivalent to that of devices currently used in hospitals and other institutions. The system also allows for the constant monitoring of a patient's respiratory rate, which in the past was counted visually by medical personnel. In a society market by an aging population and a declining birthrate, we believe this system will help reduce the workload of healthcare professionals and improve patients' quality of life.

### ISMS

#### Information security

JRC is developing information security activities as a member of the Nisshinbo Group.

We have obtained ISO/IEC 27001 (ISMS) certification for our information security measures, and we work according to this standard. To strengthen our response to external threats, we maintain and improve information security and ensure business continuity by implementing PDCA cycles led by top management.

##### Principal activities

- Provide education on information security through ISMS internal audits and an e-learning system
- Organized CSIRT\* and joined the Nippon CSIRT Association in 2018
- Support for the detection of, response to, and recovery from information security incident, and prevention of recurrence
- Prevent information leaks due to cyber-attacks and internal fraud
- Minimize damage such as through business interruption

## Using exhaustive reliability testing and quality control systems to deliver higher levels of safety and peace of mind.

JRC uses rigorous quality control and stringent reliability and evaluation testing across all phases of its products and systems—development, design, manufacture, and installation—in order to foster safety and peace of mind for

customers. We also implement the plan-do-check-act (PDCA) cycle in an effort to offer products that satisfy customers.

### Meticulous quality control systems deliver higher levels of safety and peace of mind



#### Scanning electron microscope

Test samples are irradiated with an electron beam to obtain images with several hundred thousand-fold resolution for detailed surface analysis.



#### X-ray fluorescence spectrometer

This spectrometer can identify the elements from the fluorescence spectrum generated by irradiating a sample with X-rays.



#### Rapid-rate thermal cycle chambers

This chamber evaluates the reliability of products by subjecting it to repeated stress to determine differences in thermal elasticity when exposed to rapid changes of high and low temperatures.



#### Temperature and humidity walk-in chamber

Independently controls the temperature and humidity of the chamber and evaluates the environmental durability of devices. This chamber's test area dimension is W5.0m x H2.8m x D5.0m.



#### 3m method anechoic chamber

This chamber evaluates the reliability of products by measuring electromagnetic compatibility (EMC).

### Quality Assurance Initiatives

JRC received an ISO 9001 quality management system (QMS) certification in 1994 and made the switch to the new 2015 standards in 2017. In 2018, JRC also received certifications in JIS Q 9100, which are QMSs for specific industrial sectors. Using these QMSs as a base, we are building systems and mechanisms for quality assurance. JRC is securing optimal quality in all business areas from products for private markets, to its marine systems which can endure installation in unique environments. We are also responding to diverse customer needs for a wide variety of products through our weather radars, which are made to customer specifications, and our dam control systems.

Quality Assurance

Quality Assurance Promotion Department

Quality Evaluation Center

Marine Systems Division  
Quality Assurance Department/Marine Electronics

Solution Business Division  
Quality Assurance Department

Defense Systems Division  
Defense Systems Quality Assurance Department



Health Management Initiatives

Health Management Declaration

JRC puts the health of its employees first, promotes the development of a rewarding organization for each and every employee, and aims to be a company that is attractive to both itself and others through health.

Health Management Initiatives

We are actively engaged in health management, as we view the health of our employees important not just in the sense of promoting their physical and mental health, but also because it links to the health of the organization, and we are continuously implementing a variety of measures to this end. As a result, the Company has been certified as Health and Productivity Management Corporation (Large Enterprise Category) for five consecutive years.

Individual Health

By analyzing the data from specific health checkups, we promote exercise and sleep education.

Promoting health through walking

We encourage employees to embrace walking as an ongoing habit, as increasing the amount of physical activity through walking helps reduce the risk of lifestyle-related diseases.

JRC's own workplace gymnastics

To prevent health problems and mental disorders caused by VDT work among employees, we conduct our own workplace exercises twice a day throughout the Company.



Sleep hygiene training

We provide e-learning to help all employees gain basic knowledge about sleep. At the same time, employees who have sleep issues based on the results of preliminary questionnaires are given individual sleep training (optional) and followed up for three months for improvement.

Providing dinner at the company cafeteria (Nagano and Kawagoe offices)

In addition to lunch, the employee cafeteria serves dinner to provide employees with nutritionally balanced meals and to reduce the burden of digestion on the gastrointestinal tract by ensuring an early dinner time.

Supporting outpatient treatment for smoking cessation

The health insurance association pays the full cost of outpatient treatment for smoking cessation, since smoking is associated with many diseases, including cancer, and also causes lung cancer and other health problems not only to the smoker but also to those around him or her.

Environmental Initiatives

We recognize environmental conservation as the most important common concerns for all mankind, and reflect this in all aspects of our business.

Promoting biodiversity conservation activities

As part of its biodiversity conservation activities, since 2022 JRC has made donations to the Tokyo University of Marine Science and Technology, endorsing its research theme of "Collection and Monitoring of Drifting Marine Plastic Litter by Set Net Fishing."



The Chugoku Branch Office and the Yamaguchi Sales Office participate in "hands-on activities to protect water through afforestation." Or goals are to foster experience of afforestation and deepen understanding of the functions forests play in water source irrigation and the prevention of global warming.



Experiential activity on water protection through afforestation

Utilization of CO2-free electricity produced in Shinshu

Nagano JRC is partly powered by CO2-free electricity produced by a hydroelectric power plant in Nagano Prefecture. In April 2023, we began purchasing "Shinshu Green Electricity" from Chubu Electric Power Miraiz Co., Inc. We aim to increase the amount of locally produced and consumed CO2-free electricity to help reduce greenhouse gas emissions.



Organizational Health

The following initiatives are being implemented to improve productivity, increase employee motivation, and prevent employee turnover.

Stress checks

Based on the results of stress checks, we analyze individual stress levels and risks by department. Through collaboration among in-house specialists such as industrial physicians and public health nurses, as well as workplace personnel, we work to reduce individual stress levels and improve workplace environments.

Women's health education

To help women remain healthy and maintain high job performance, it is essential that they and those around them have correct knowledge of women-specific health-related issues and take appropriate actions. We offer e-learning to foster understanding and action in this regard.

Regular health checkups and disease prevention

All employees undergo regular health checkups to aid in the early detection and treatment of illnesses, as well as helping prevent or slow the progression of illnesses based on the results of the checkups.

Mental health measures

We believe that management supervisors are the key people to creating comfortable workplaces (fostering a sense of security and a highly productive workplace). Accordingly, we provide "care by the line" e-learning for department heads and group heads. The objective is to acquire the knowledge necessary to care for subordinates, and to learn how to respond to consultations from subordinates and as a workplace organization.

Fulfilling our obligation to ensure safety

While taking into consideration the needs of the times, we engage in detailed work-related considerations to protect the safety and health of our employees and help them to play an active and vibrant role in the Company.

Maintaining administrative standards on highly burdensome work

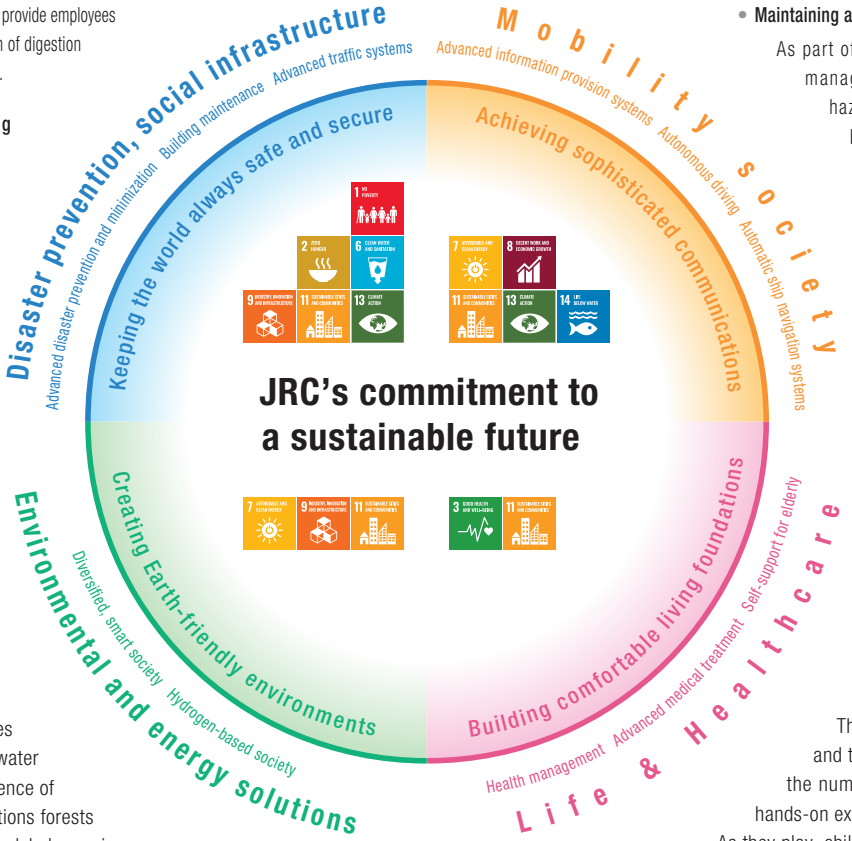
As part of the Nisshinbo Group, we have created unified management standards for overseas assignments, hazardous work, late-night work, and other highly burdensome work.

Measures to prevent passive smoking

To reduce the harmful effects of tobacco, which is implicit in many diseases, we work to prevent passive smoking by providing segregated smoking areas and restricting smoking hours.

Health management support for expatriates and business travelers

For employees posted overseas, medical checkups and interviews with industrial physicians are conducted before and after returning from overseas assignments. Short-term overseas business travelers are required to submit a medical questionnaire before and after their trips, and industrial physicians or nursing staff provide information as necessary. From a safety standpoint, we offer employees who need follow-up checks support through interviews and phone calls.



Regional and social activities

JRC contributes to sustainability and longevity of society, which is confronted with various challenges, including a low birthrate and aging population.

Disaster Prevention and Radio Craft Workshop

The Disaster Prevention and Radio Craft Workshop is a place where children are carefully taught the importance of disaster prevention and the fun of making things. The workshop provides practical learning, including the creation of My Timeline\*, with the aim of eliminating the number of delayed evacuations. This program provides a valuable opportunity to learn about life-saving disaster prevention through hands-on experience with how to gather information using radar and the Internet, and how radios and wireless systems work.

As they play, children acquire knowledge and skills that help them prepare for disasters such as earthquakes and floods, taking steps toward building a safer society.



Learning how to solder, with the support of a staff member



Listening to the sound of a disaster prevention radio



Creating My Timeline while looking at a hazard map

About My Timeline

My Timeline started as part of the government's "zero delayed evacuations" initiative by the "Everyone Timeline Project" of the Shimodate River Office of the Ministry of Land, Infrastructure, Transport and Tourism. Under this initiative, each resident creates a timeline to compile and organize their own standard disaster prevention actions to be taken when river levels rise due to an approaching typhoon. The timeline is to be used as a checklist of actions to be taken and as a tool to support decision making in the event of floods with severe time constraints, thereby contributing to the goal of zero delayed evacuations.

Expanding our service network in Japan and overseas.

International Business Bases & Main Subsidiaries

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<b>San Jose Technical Development Center</b> 3000 Scott Boulevard, Suite 212, Santa Clara, California 95054, U.S.A. Phone : +1-408-217-9832	<b>Alphatron Marine USA, Inc.</b> 1205 Butler Road, League City, 77573, Texas, U.S.A. Phone : +1-281-271-4600
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<b>Alphatron Marine B.V.</b> Schaardijk 23 Harbour 115 3063 NH Rotterdam The Netherlands Phone : +31-10-453-4000	<b>Alphatron Marine Poland Sp. Z o.o.</b> ul. Bialowieska 6B, 71-010 Szczecin, Poland Phone : +48-91-43-10-452
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<b>Nagano Plant</b> 834, Inasatomachi, Nagano-shi, Nagano 381-2289 Phone：+81-26-214-6910
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Group Companies

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<b>Nagano Japan Radio Co., Ltd.</b>	<b>JRC MARINFONET Co., Ltd.</b>
<b>Ueda Japan Radio Co., Ltd.</b>	<b>JRC System Service Co., Ltd.</b>
<b>JRC Tokki Co., Ltd.</b>	<b>JRC Mobility Inc.</b>
<b>Japan Radio Glass Co., Ltd.</b>	



Profile

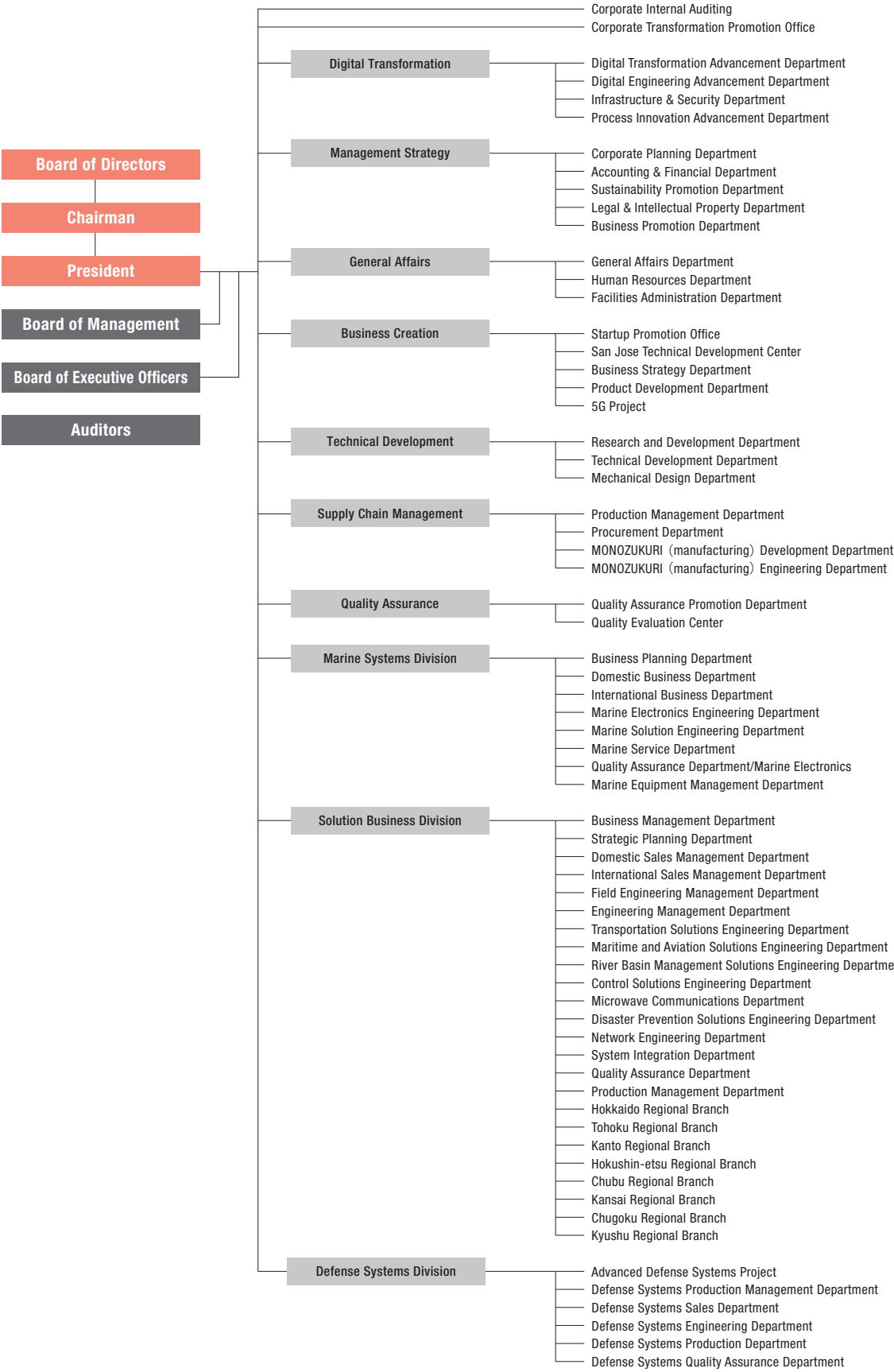
Company DataAs of 31 December, 2023

Trade Name	: Japan Radio Co., Ltd.
Head Office	: NAKANO CENTRAL PARK EAST, 10-1, Nakano 4-chome, Nakano-ku, Tokyo 164-8570 Phone : +81-3-6832-1721
Mitaka Office	: 21-11, Mure 6-chome, Mitaka-shi, Tokyo 181-0002 Phone : +81-422-45-9183
Founded	: December 1915
Paid-in Capital	: 14,704 millions of Yen
Number of Employees (Consolidated)	: 5,728
Net Sales (Consolidated)	: 140,989 millions of Yen
Classification of Business	: Manufacture and Sale of Radio Communication Equipment
Parent Company	: Nisshinbo Holdings Inc.

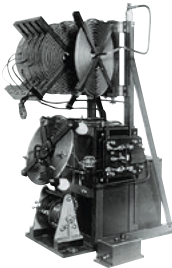
Board of DirectorsAs of 26 March, 2024

Representative Director and President	..... Takeshi Koarai	Managing Executive Officer	..... Shoji Kubota
Director and Managing Executive Officer	..... Kensuke Ohnuma	Managing Executive Officer	..... Masayuki Kobayashi
Director and Executive Officer	..... Masatoshi Magarifuchi	Executive Officer	..... Ryo Sakuma
Director and Executive Officer	..... Kinji Kato	Executive Officer	..... Hiroshi Kumagai
Director and Executive Officer	..... Takuya Noda	Executive Officer	..... Mitsuharu Miyata
Director	..... Yasuji Ishii	Executive Officer	..... Shintaro Inoue
Director	..... Hiroyuki Chuma	Executive Officer	..... Naoya Hiraki
Standing Corporate Auditor	..... Takayuki Komiya	Executive Officer	..... Yuji Kinoshita
Standing Corporate Auditor	..... Osamu Nagashima	Executive Officer	..... Nobuhiro Yoshikawa
Auditor	..... Kenichi Morita	Executive Officer	..... Akira Yamada

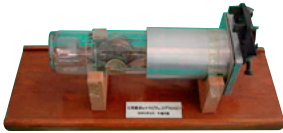
Organization ChartAs of 1 April, 2024



History		Project
Dec. Anonymous Association,Nippon RadiotelegraphManufacturing Co. is founded.	1915	
	1916	Dec. "Nippon Radio quenched spark radiotelegraph unit,"our first product, is developed.
Mar. Nippon Radio Telegraph Manufacturing & Co., Ltd. is founded.	1917	
	1918	Sep. Our first "vacuum tube" is developed.
Feb. The company is reorganized as Nippon Radio Telegraph and Telephone Co., Ltd.	1920	
	1922	Feb. Japan's first "radio for weather broadcasting"is developed.
	1923	Dec. Japan's first "500W vacuum tube type transmitter" is developed.
Apr. A contract on capital and technology is concluded with TELEFUNKEN GmbH in Germany.	1924	Jun. Development of radio parts and radio receiver commences.
Jan. Our headquarters and factory relocate to newly constructed facilities in Osaki, Tokyo.	1930	Dec. Our "new style of radio receiver"wins first prize in the National High-grade Radio Receiver Prize Competition Exhibition.
	1932	Mar. Fully nationalized "500W power broadcasting transmitter" is developed.
Jul. Our factory relocates to newly constructed facility in Mitaka, Tokyo.	1938	
	1939	The world's first "cavity magnetron" is developed.
Dec. Our company name changes to "Japan Radio Co., Ltd."	1942	
Dec. Our new logo is  born.	1945	
	1948	Nov. Japan's first "ultrasonic sounding equipment" is developed.
Oct. The firm restarts as Japan Radio Co., Ltd.(secondary corporation).	1949	May We commercialize a fish finder after demonstrating strong performance in fish finding experiments.
Nagano Japan Radio Co., Ltd. is founded.		
Ueda Japan Radio Co., Ltd. is founded.		
	1952	Dec. Japan's first "9GHz marine radar"is developed.
Feb. Our stock is listed on the Tokyo Stock Exchange.	1953	
Oct. Osaka Wireless Office Co., Ltd.(current JRC System Service Co., Ltd.)is founded.	1954	Mar. Japan's first "weather radar"is developed.
May Japan Radio Glass Co., Ltd. is founded.	1955	
Apr. A technical assistance contract is concluded with TELEFUNKEN in Germany.	1957	
Nov. Sasebo Japan Radio Co., Ltd. is founded.		
	1960	Feb. The world's first "transistorized LORAN receiver" is released.
		Sep. "A rainfall/water-level telemeter system"is delivered to the Futase Dam.
Jul. A new head office opens in Toranomon, Minato-ku, Tokyo.	1961	
Oct. Japan Radio Cooperation Association is founded.		
Dec. As a joint venture with RAYTHEON company in the US, New Japan Radio Co., Ltd. is founded.		
	1964	Aug. Japan's first "simultaneous interpretation system"is delivered.
		"The sound systems for the Tokyo Olympics"are delivered.
Aug. A new Defense Systems factory opens.	1968	
Oct. A laboratory opens.	1969	Oct. A "compact, transistor-type marine radar" is developed.
	1970	May Our "JAC-120 general-purpose computer system"is released.
	1971	May Japan's first "real-time signal analyzer"is released.
May JRC do Brasil Empreendimentos Electronicos Ltda. is founded.	1975	Aug. Japan's first "Ship Earth Station device for the international maritime satellite system "is developed.
	1977	Jun. "An amateur radio receiver"is released.
	1979	Mar. "Fully solid-state PCM/PSK multiplex radio communication equipment" is developed.
	1982	
Apr. Japan Radio clinic opens.		
May The Saitama plant opens.		
Apr. JRC Engineering Co., Ltd. is founded.	1983	Aug. We achieves the top world share in "Ship Earth Station devices for the international maritime satellite system."
A new automated production factory opens.		
May The head office relocates to Akasaka,Minato-ku, Tokyo.		
	1984	Aug. Japan's first "GPS receiver for ships" is developed.
Oct. JRC Tokki Co., Ltd. is founded.	1985	
Oct. A new factory of manufacturing of printed wiring board opens.	1986	



quenched spark radiotelegraph unit  
(1916)



World's first cavity magnetron  
(1939)



Japan's first meteorological radar  
(1954)



Amateur radio receiver NRD-505  
(1977)



Inmarsat-A JUE-35A  
(1983)



ETC automotive equipment for motorcycles JRM-11  
(2006)

History		Project
Jan. Our capital surpasses 10 billion yen.	1990	Mar. The world's first "Automotive GPS receiver for car navigation"debuts.
	1991	Sep. "A new series of radio communication equipment for the GMDSS" is developed.
	1993	Feb. We delivered our first mobile telephone for domestic market.
	1994	
Apr. Japan Radio Company (HK) Limited is founded.		
Jul. We introduce its system of independent divisions.		
Jun. LPA (Linear Power Amplifier) factory opens.	2000	
Oct. MARINFONET CO., LTD. (current JRC MARINFONET CO., LTD.) is founded.		
Dec. The head office relocates to Nishishinjuku, Shinjuku-ku, Tokyo.	2002	
	2006	Oct. "JRM-11 Series ETC automotive equipment for motorcycles" is released.
Aug. The head office relocates to Ogikubo, Suginami-ku, Tokyo.	2008	May The world's first "MED approval for marine radars conforming to the new IMO radar performance standard" is acquired.
Dec. We become a consolidated subsidiary of Nisshinbo Holdings Inc.	2009	
	2010	Jun. The world's first "9GHz band 300W marine solid-state radar"with a narrower radar band is developed.
Nov. A locally incorporated company is established in Shanghai.	2011	Dec. The world's first "S-band/solid state weather radar" is supplied to PAGASA in the Philippines.
Sep. We issued a plan for "Structural business reforms toward renewed growth."	2012	
Dec. Alphatron Marine Beheer B.V. becomes a consolidated subsidiary.	2013	
Jul. The head office relocates to Nakano, Nakano-ku, Tokyo.	2014	
Aug. Nagano plant opens.		
Dec. The Advanced Technology Center opens.		
Mar. Construction of the production building is completed.	2015	Jul. We release "the world's smallest and lightest S-band solid state radar."
Oct. We celebrate the 100th anniversary of its founding.		
Mar. Nagano Japan Radio Co., Ltd. And Ueda Japan Radio Co., Ltd. becomes wholly owned subsidiary.	2016	May Japan's first "Compact LTE system" is delivered to Kyoto University.
May The Marine Service Center opens.		Jul. "JRM-21 ETC2.0 automotive equipment for motorcycles" is released.
Aug. Kawagoe plant opens.		
Oct. Alphatron Marine Beheer B.V. becomes wholly owned subsidiary.		
Jan. PT. JRC SPECTRA INDONESIA is founded.	2017	May New navigation support tool "J-Marine NeCST" is jointly developed.
Apr. San Jose Technical Development Center opens.		Sep. We delivered a large driving simulator to an automobile manufacturer.
Jul. Alphatron Marine Korea Co., Ltd. is founded.		
Oct. JRC becomes wholly owned subsidiary of Nisshinbo Holdings Inc.		
Jul. ProNav As becomes wholly owned subsidiary.	2018	
	2019	Jan. For the first time in the world, phased weather radar was used for the high-speed 3D observation of tornadoes associated with typhoons.
		Sep. Began transmitting disaster-related information to digital signage used at underground commercial facilities using Alertmarker+, the first system of its kind in Japan.
Mar. Certified as a Health and Productivity Management Corporation 2020 (Large Enterprise Category) Note: We have maintained that certification since	2020	Mar. Developed JM-Watcher II, the first app in Japan that helps prevent collisions by providing notice of approaching marine vessels.
		Jun. We participated in the Nippon Foundation's fully autonomous ship program.
Jan. The telecommunications equipment business is transferred to JRC Mobility Inc.	2021	Apr. We conducted Japan's first successful video transmission experiment using geostationary satellite connection to local 5G.
		Sep. Japan's first Alertmarker+ multilingual translation service begins operation at Kagoshima Airport.
		Nov. We succeeded in the world's first autonomous collision avoidance of a small unmanned aircraft at a relative speed of 200 km/h.
	2022	Jun. We delivered a "multilateration system" to the Vietnam Air Traffic Management Corporation.
		Jun. We released the "Safety Zone Viewer," a collision danger zone display function.
	2023	Apr. We developed the "offshore facility access gateway," Japan's first six-axis motion compensator with an overhead bridge.