



**Japan Radio Co., Ltd.**  
Company Profile  
2023-2024



JRC Website



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

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 vendor that provides safety and peace of mind to society.”

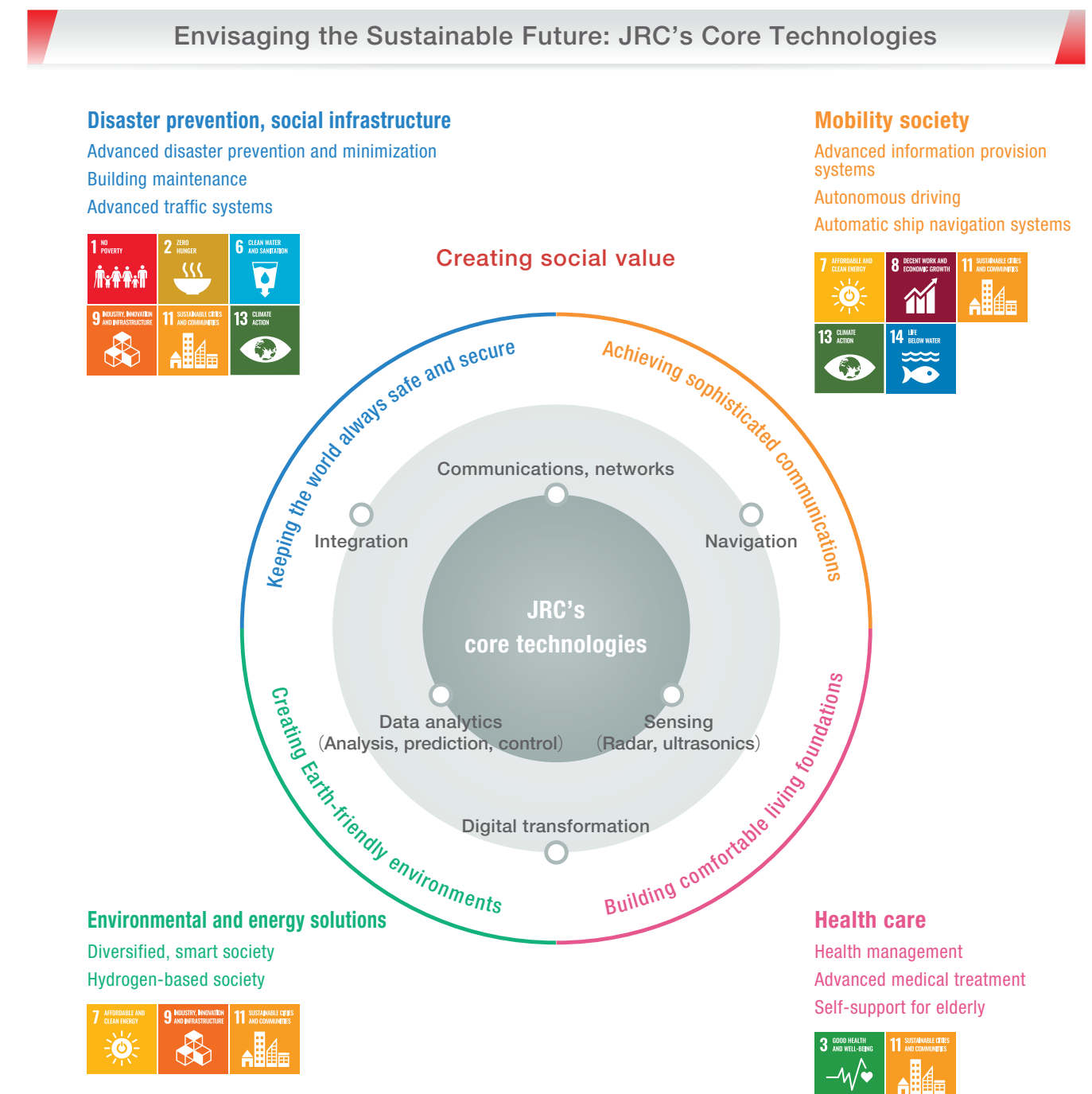
We look forward to your ongoing support.



Representative Director  
and President  
Takeshi Koarai

# Connecting people's thoughts and feelings through reliable technology. JRC is a leading company in telecommunications technology.

JRC is making the most of its knowledge, technology and experience built up over many years in various fields of information technology, contributing to the safety and security of people around the world. Based on its core technologies that it has developed since its founding, JRC is creating new worlds of communications from people to people and to environments.







- 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 products



Marine systems



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 products



Land systems



Radio broadcast systems for disaster prevention



Airport meteorological doppler radar



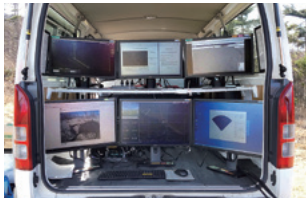
- Radar equipment and systems
- Communication equipment and systems
- Wireless applied equipment and systems

### Defense Systems Division

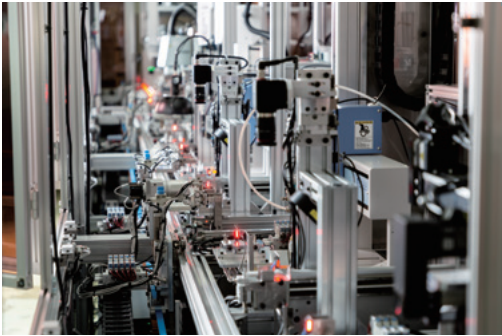
We provide wireless application equipment and systems to Japan's Ministry of Defense. We also aim to expand into the aviation and space industries, which we see as potential growth areas.



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.

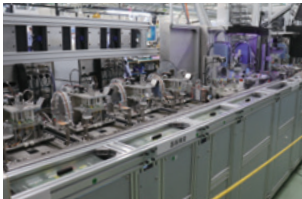
We contribute to the realization of smart cities, smart factories, and a decarbonized society through specified low-power wireless systems, automatic production line, and electronic winding components for next-generation automobiles.



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



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

### Mobility Business

JRC Mobility Inc.

We will contribute to a safe and secure mobility society by solving social issues such as labor-saving in the industrial sector and automated driving through wireless communication and sensing technologies.



JRC Mobility



Equipment for ETC2.0-compatible vehicles



Millimeter wave radar



Multiband in-vehicle radio

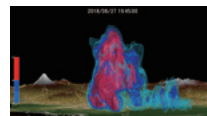


## Deploying wireless communication technologies amassed over more than a century to meet the needs of the times.

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, amps, 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



3D Image of Rain Intensity



Antenna Image of Phased Array Radar



GPS modules



GPS chips

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

The installation of super multilevel modulation systems with high spectral efficiency is necessary to achieve large capacity transmission. JRC has established a technology that compensates for phase noise and nonlinear distortion, two issues associated with these systems, using signal processing. Furthermore, we will aim to enhance the flexibility of wireless transmission by making it software-enabled, and to upgrade its functions, such as adaptive processing in response to changes in the environment using AI technology.

#### 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.

#### Positioning technology advancement: Next-generation GPS receiver

In 1990, JRC released the world's first GPS receiver for automobile navigation use. In 2015, we sold around 5 million units. In addition to the United States (GPS), we offer positioning systems for various other nations/regions, notably Russia (GLONASS), Europe (Galileo), China (BeiDou), and Japan (QZSS). In our aim for world-class performance, in recent years we have also achieved centimeter-level positioning accuracy.

## 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.



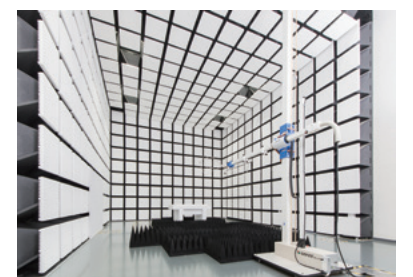
#### Rapid-rate thermal cycle chambers

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.





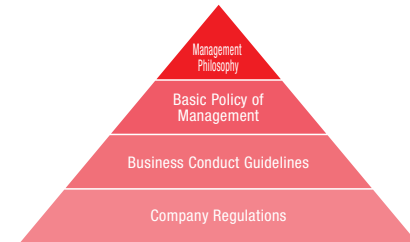
Corporate activities

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

Information security

By obtaining ISMS certification, we will further improve information security and provide services that customers can use with peace of mind.

- Management Strategy : IT Promotion Department
- Business Operation Solution Business Division : Engineering Management Department / Wireless Infrastructure Department / Water Infrastructure Department / Transport Infrastructure Department / System Integration Department / Field Engineering Management Department / Public Infrastructure Business Department / Private-sector Management Department / International Business Management Department / 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

In addition to promoting the physical and mental health of our employees, we promote our “organizational health.” We proactively engage in health management through the ongoing implementation of various measures.

Individual Health

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

- Hold the +10 Walking Challenge
- Provide education on sleep hygiene

Organizational Health

We conduct initiatives aimed at preventing employee turnover, improving productivity, and increasing motivation.

- Conduct stress checks
- Convey knowledge and provide education on health-related issues specific to women

Certified as a Good Health Management Corporation (Large Company Division) for Four Consecutive Years

On March 8, 2023, JRC was certified as a Good Health Management Corporation 2023 (Large Company Division) by the Ministry of Economy, Trade and Industry, and the Japan Health Council, making this our fourth consecutive year for this certification.



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

Since 2022, we have been contributing to biodiversity education activities by cooperating with Tokyo University of Marine Science and Technology in one of its research themes, the “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

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.

Radio Workshops

We encourage children's interest in science by holding radio making workshops throughout Japan.



Component preparation work



Assembled radio



JRC received the Judging Committee Encouragement Award, in the fiscal 2019 Award to Companies That Promote Experienced-Based Learning among Youth from the Ministry of Education, Culture, Sports, Science and Technology for its Radio-Making Workshop.

Adopt-a-System Program

The Nagano Plant has registered with Nagano Prefecture as the Adopt-a-Road supporter of a non-profit organization that conducts road beautification activities around the plant. In addition to providing necessary items for beautification activities and other support, we participate in activities on weekends from spring through fall to keep the roads clean.



Road beautification activity (planting trees)

Note: “Adopt-a-System” is a program where municipalities and residents sign agreements regarding their respective roles and work together on beautification activities on an ongoing basis. “Adopt” commonly refers to taking on child-rearing responsibilities. The system uses this wording because residents take care of public spaces such as roads (such as through cleaning and beautification) with the sort of affection they might show toward their own children.

Expanding our service network in Japan and overseas.

International Business Bases & Main Subsidiaries

Asia	
<b>Manila Branch</b> Unit 603, Liberty Center 104 H.V.Dela, Costa Street, Salcedo Village, Makati City, Manila, Philippines Phone : +63-2-8886-4185,+63-2-8884-8767 Fax : +63-2-8844-6812	<b>JRC (Shanghai) Co., Ltd.</b> Floor 9-A Building C2, Shanghai International Trade Center, 1599 New Jinqiao Road, Pudong, Shanghai, China 201206 Phone : +86-21-2024-0607～0610 FAX : +86-21-2024-0611
<b>Hanoi Representative Office</b> Hanoi Tung Shing Square, Unit 802, 8th floor, 2 Ngo Quyen Street, Hanoi, Viet Nam Phone : +84-24-3936-2500 Fax : +84-24-3936-2498	<b>Alphatron Marine Systems Pte Ltd.</b> 59 S, Tuas South Avenue, 637418 Singapore, Singapore Phone : +65-812-312-44
<b>Taipei Representative Office</b> 5-4F, No.50, Sec.4, Nanjing E. Rd., Songshan Dist., Taipei City 105, Taiwan, R.O.C. Phone : +886-2-2571-3100 Fax : +886-2-2571-2999	<b>Alphatron Marine Systems Sdn Bhd</b> No.12, Jalan SILC 1/8, Kawasan Perindustrian SILC, 79200 Johor Bahru, Malaysia Phone : +60-750-964-35
<b>PT. JRC SPECTRA INDONESIA</b> ATRIA@SUDIRMAN, 20th Floor, Jalan Jenderal Sudirman Kav.33A, Jakarta 10220, Indonesia Phone : +62-21-573-5765 Fax : +62-21-573 5691	<b>Alphatron Marine Korea Co., Ltd.</b> 240, Jungang-daero, Dong-gu, Busan 48732, Korea Phone : +82-51-714-1862
North America	
<b>New York Sales Office</b> 1 Bridge Plaza North, Suite #275 Fort Lee, NJ 07024, U.S.A. Phone : +1-201-242-1882 Fax : +1-201-242-1885	<b>U.S.A.(Washington D.C.)</b> 1750 Tysons Blvd, Suite 1535, McLean, VA 22102, U.S.A. Phone : +1-703-289-5028 Fax : +1-703-388-0648
<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
South America	
<b>JRC do Brasil Empreendimentos Eletrônicos Ltda.</b> Praia do Flamengo 154 C.J.101 Flamengo Rio de Janeiro RJ Brasil CEP22210-906 Phone : +55-21-2220-8121 Fax : +55-21-2240-6324	<b>Alphatron Marine Caribbean B.V.</b> De Rouvilleweg z/n, Willemstad, Curaçao Phone : +5999-788-9953
Europe	
<b>Greece Branch</b> 223, Syngrou Avenue & 2, Tralleon Street 171 21 Nea Smyrni, Athens, Greece Phone : +30-210-9355061, 9355661 Fax : +30-210-9355611	<b>Alphatron Marine Deutschland GmbH</b> Verbindungsweg 23d, 25469 Halstenbek, Germany Phone : +49-4101-37710
<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
<b>Alphatron Marine Belgium BVBA</b> Nieuwe Weg 1, B-2070 Zwijndrecht, Belgium Phone : +32-3-685-2196	<b>Alphatron Marine Iberia S.L.</b> Calle de los Manzanos 34, 28703 Madrid, Spain Phone : +34-674-117-132
<b>Alphatron Marine France SAS</b> 1720 Avenue de la Plaine, 06250 Mougins, France Phone : +33-4-93-75-19-93	<b>ProNav AS</b> Fiskarvik Maritime Senter Hovlandsveien 52 4374 Egersund Norway Phone : +47-51-46-43-00

Domestic Sales Bases

Head Office,Office,Plant
<b>Head Office</b> Nakano Central Park East, 10-1, Nakano 4-chome, Nakano-ku, Tokyo 164-8570 Phone：+81-3-6832-1721 Fax：+81-3-6832-1844
<b>Mitaka Office</b> 21-11, Mure 6-chome, Mitaka-shi, Tokyo 181-0002 Phone：+81-422-45-9183 Fax：+81-422-46-3886
<b>Tatsumi Office</b> 7-32, Tatsumi 1-chome, Koto-ku, Tokyo 135-0053 Phone：+81-3-5534-1213 Fax：+81-3-5534-1199
<b>Kawagoe Plant</b> 1-12, Fukuoka 2-chome, Fujimino-shi, Saitama 356-8580 Phone：+81-49-257-6220 Fax：+81-49-257-6159
<b>Nagano Plant</b> 834, Inasatomachi, Nagano-shi, Nagano 381-2289 Phone：+81-26-214-6910
<b>Kanto Logistics Center</b> Mitsui Fudosan Logistics Park Hino, 1-1, Asahigaoka 3-chome, Hino-shi, Tokyo 191-0065 Phone：+81-42-589-1521
Marine Systems Division
<b>Hakodate Branch</b> Phone：+81-138-22-5855 Fax：+81-138-27-1477
<b>Kushiro Sales Office</b> Phone：+81-154-25-5611 Fax：+81-154-24-0251
<b>Wakkanai Sales Office</b> Phone：+81-162-22-7597 Fax：+81-162-22-3653
<b>Hachinohe Sales Office</b> Phone：+81-178-33-5222 Fax：+81-178-34-3891
<b>Sendai Branch</b> Phone：+81-22-781-6173 Fax：+81-22-299-6261
<b>Yaizu Sales Office</b> Phone：+81-54-629-4830 Fax：+81-54-628-9153
<b>Kansai Branch</b> Phone：+81-6-6344-1633 Fax：+81-6-6344-1681
<b>Kochi Sales Office</b> Phone：+81-88-883-8871 Fax：+81-88-885-3297
<b>Kyushu Branch</b> Phone：+81-92-262-2141 Fax：+81-92-262-2161

<b>Nagasaki Sales Office</b> Phone：+81-95-861-8148 Fax：+81-95-862-8944
<b>Kagoshima Sales Office</b> Phone：+81-99-250-6161 Fax：+81-99-250-6151
Solution Business Division
<b>Hokkaido Regional Branch</b> Phone：+81-11-261-8321 Fax：+81-11-261-3879
<b>Aomori Sales Office</b> Phone：+81-17-774-2321 Fax：+81-17-774-2334
<b>Iwate Sales Office</b> Phone：+81-19-654-3288 Fax：+81-19-622-4679
<b>Tohoku Regional Branch</b> Phone：+81-22-781-6171 Fax：+81-22-299-6261
<b>Akita Sales Office</b> Phone：+81-18-823-7455 Fax：+81-18-823-7460
<b>Gunma Sales Office</b> Phone：+81-27-289-2558 Fax：+81-27-289-0067
<b>Saitama Sales Office</b> Phone：+81-48-710-7333 Fax：+81-48-710-7335
<b>Kanto Regional Branch</b> Phone：+81-422-40-1225 Fax：+81-422-40-1229
<b>Kanagawa Sales Office</b> Phone：+81-45-541-2341 Fax：+81-45-545-0245
<b>Niigata Sales Office</b> Phone：+81-25-257-1711 Fax：+81-25-257-1733
<b>Toyama Sales Office</b> Phone：+81-76-475-4860 Fax：+81-76-475-4860
<b>Isikawa Sales Office</b> Phone：+81-76-291-4351 Fax：+81-76-292-1826
<b>Fukui Sales Office</b> Phone：+81-776-24-9383 Fax：+81-776-24-9388
<b>Hokushinetsu Regional Branch</b> Phone：+81-26-214-7519 Fax：+81-26-214-7494
<b>Gifu Sales Office</b> Phone：+81-58-214-7505 Fax：+81-58-214-7510
<b>Shizuoka Sales Office</b> Phone：+81-54-353-0138 Fax：+81-54-352-3354

<b>Chubu Regional Branch</b> Phone：+81-52-959-5901 Fax：+81-52-959-5908
<b>Kansai Regional Branch</b> Phone：+81-6-6344-1637 Fax：+81-6-6344-1714
<b>Hyogo Sales Office</b> Phone：+81-78-321-2431 Fax：+81-78-391-6760
<b>Sanin Sales Office</b> Phone：+81-852-27-6994 Fax：+81-852-22-1101
<b>Chugoku Regional Branch</b> Phone：+81-82-224-5551 Fax：+81-82-224-5599
<b>Yamaguchi Sales Office</b> Phone：+81-83-923-7857 Fax：+81-83-923-2906
<b>Tokushima Sales Office</b> Phone：+81-88-624-4750
<b>Shikoku Branch</b> Phone：+81-87-823-4720 Fax：+81-87-823-2443
<b>Ehime Sales Office</b> Phone：+81-89-958-3290
<b>Kochi Sales Office</b> Phone：+81-88-883-8871 Fax：+81-88-885-3297
<b>Kyushu Regional Branch</b> Phone：+81-92-262-2121 Fax：+81-92-262-2161
<b>Saga Sales Office</b> Phone：+81-952-29-4535 Fax：+81-952-29-4535
<b>Nagasaki Sales Office</b> Phone：+81-95-861-8148 Fax：+81-95-862-8944
<b>Kumamoto Sales Office</b> Phone：+81-96-369-9200 Fax：+81-96-369-9222
<b>Oita Sales Office</b> Phone：+81-97-538-1700 Fax：+81-97-538-5900
<b>Miyazaki Sales Office</b> Phone：+81-985-23-6110 Fax：+81-985-23-6054
<b>Kagoshima Sales Office</b> Phone：+81-99-250-6161 Fax：+81-99-250-6151
<b>Okinawa Sales Office</b> Phone：+81-98-835-2225 Fax：+81-98-835-2261

Group Companies

<b>Nisshinbo Holdings Inc.</b>	<b>JRC Engineering Co., Ltd.</b>
<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

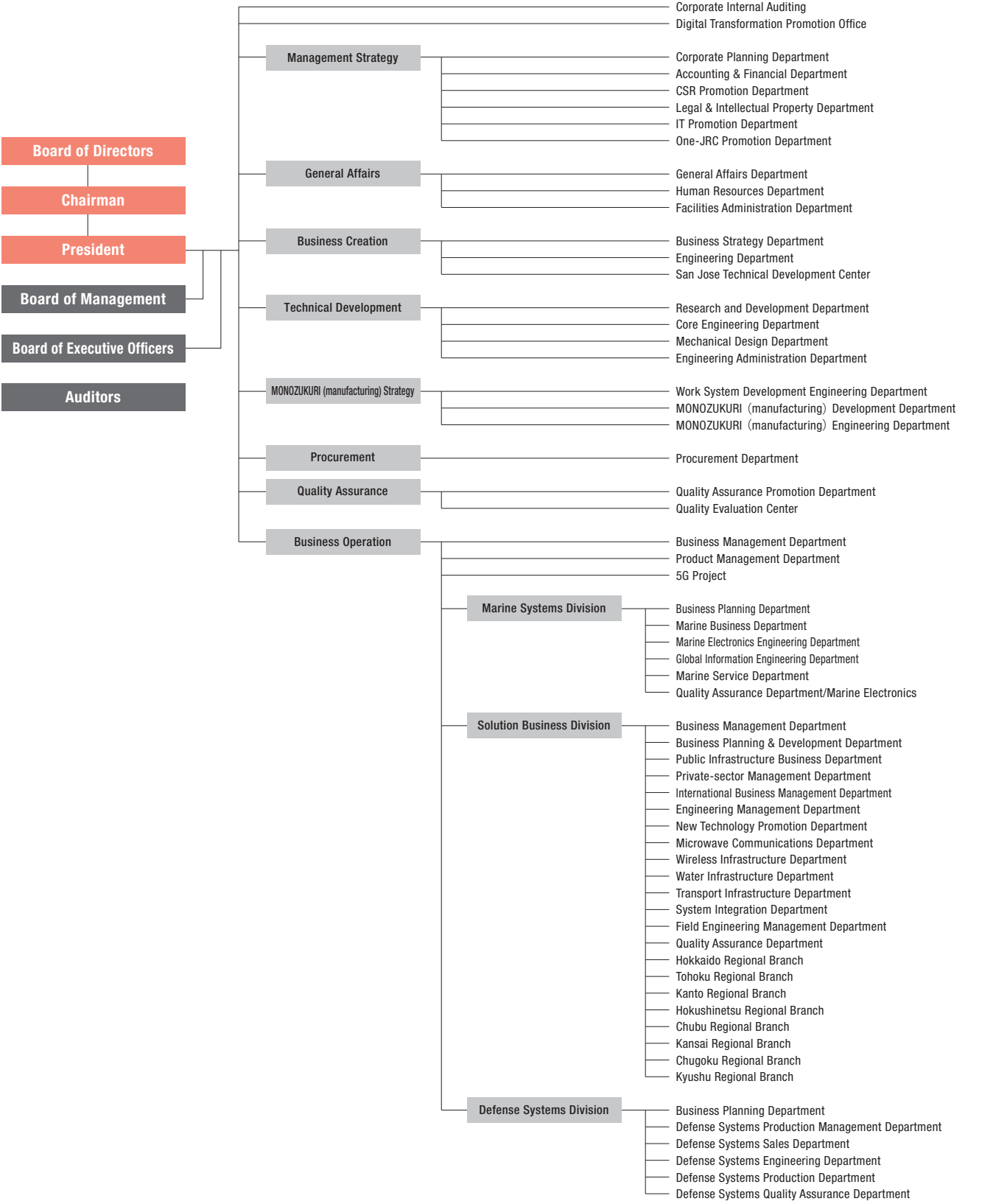
Company DataAs of 31 December, 2022

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)	: 5,639
Net Sales (Consolidated)	: 138,671 millions of Yen
Classification of Business	: Manufacture and Sale of Radio Communication Equipment
Parent Company	: Nisshinbo Holdings Inc.

Board of DirectorsAs of 28 March, 2023


Representative Director and President	..... Takeshi Koarai	Executive Officer	..... Nobuyuki Adachi
Director and Managing Executive Officer	..... Kensuke Ohnuma	Executive Officer	..... Koichi Katagami
Director and Executive Officer	..... Masatoshi Magarifuchi	Executive Officer	..... Hideaki Kamata
Director and Executive Officer	..... Kinji Kato	Executive Officer	..... Ryo Sakuma
Director	..... Yasuji Ishii	Executive Officer	..... Koji Nishihara
Director	..... Hiroyuki Chuma	Executive Officer	..... Ikuo Ueda
Standing Corporate Auditor	..... Tooru Takahashi	Executive Officer	..... Hiroshi Kumagai
Standing Corporate Auditor	..... Takayuki Komiya	Executive Officer	..... Mitsuharu Miyata
Auditor	..... Kenichi Morita	Executive Officer	..... Shintaro Inoue
Managing Executive Officer	..... Shoji Kubota	Executive Officer	..... Naoya Hiraki
Managing Executive Officer	..... Takayoshi Okugawa	Executive Officer	..... Takuya Noda
		Executive Officer	..... Yuji Kinoshita

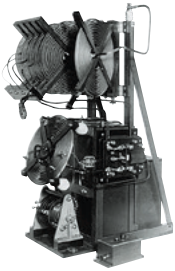
Organization ChartAs of 1 April, 2023



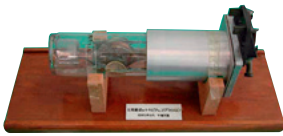
The History of JRC

Our first step in 1915 connects to the world now.


History		Project	History		Project
Dec. Anonymous Association,Nippon RadiotelegraphManufacturing Co. is founded.	1915		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."
	1916	Dec. "Nippon Radio quenched spark radiotelegraph unit,"our first product, is developed.	A new automated production factory opens.		
Mar. Nippon Radio Telegraph Manufacturing & Co., Ltd. is founded.	1917		May The head office relocates to Akasaka,Minato-ku, Tokyo.		
	1918	Sep. Our first "vacuum tube" is developed.		1984	Aug. Japan's first "GPS receiver for ships" is developed.
Feb. The company is reorganized as Nippon Radio Telegraph and Telephone Co., Ltd.	1920		Oct. JRC Tokki Co., Ltd. is founded.	1985	
	1922	Feb. Japan's first "radio for weather broadcasting"is developed.	Oct. A new factory of manufacturing of printed wiring board opens.	1986	
	1923	Dec. Japan's first "500W vacuum tube type transmitter" is developed.	Jan. Our capital surpasses 10 billion yen.	1990	Mar. The world's first "Automotive GPS receiver for car navigation"debuts.
Apr. A contract on capital and technology is concluded with TELEFUNKEN GmbH in Germany.	1924	Jun. Development of radio parts and radio receiver commences.		1991	Sep. "A new series of radio communication equipment for the GMDSS" is developed.
Jan. Our headquarters and factory relocate to newly constructed facilities in Osaka, Tokyo.	1930	Dec. Our "new style of radio receiver"wins first prize in the National High-grade Radio Receiver Prize Competition Exhibition.		1993	Feb. We delivered our first mobile telephone for domestic market.
	1932	Mar. Fully nationalized "500W power broadcasting transmitter" is developed.	Apr. Japan Radio Company (HK) Limited is founded.	1994	
	1938		Jul. We introduce its system of independent divisions.		
Jul. Our factory relocates to newly constructed facility in Mitaka, Tokyo.	1939	The world's first "cavity magnetron" is developed.	Jun. LPA (Linear Power Amplifier) factory opens.	2000	
	1942		Oct. MARINFONET CO., LTD. (current JRC MARINFONET CO., LTD.) is founded.		
Dec. Our company name changes to "Japan Radio Co., Ltd."	1945		Dec. The head office relocates to Nishishinjuku, Shinjuku-ku, Tokyo.	2002	
Dec. Our new logo is  born.	1948	Nov. Japan's first "ultrasonic sounding equipment" is developed.		2006	Oct. "JRM-11 Series ETC automotive equipment for motorcycles" is released.
	1949	May We commercialize a fish finder after demonstrating strong performance in fish finding experiments.	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.
Oct. The firm restarts as Japan Radio Co., Ltd.(secondary corporation).			Dec. We become a consolidated subsidiary of Nisshinbo Holdings Inc.	2009	
Nagano Japan Radio Co., Ltd. is founded.				2010	Jun. The world's first "9GHz band 300W marine solid-state radar"with a narrower radar band is developed.
Ueda Japan Radio Co., Ltd. is founded.	1952	Dec. Japan's first "9GHz marine radar"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.
	1953		Sep. We issued a plan for "Structural business reforms toward renewed growth."	2012	
Oct. Osaka Wireless Office Co., Ltd.(current JRC System Service Co., Ltd.)is founded.	1954	Mar. Japan's first "weather radar"is developed.	Dec. Alphantron Marine Beheer B.V. becomes a consolidated subsidiary.	2013	
May Japan Radio Glass Co., Ltd. is founded.	1955		Jul. The head office relocates to Nakano, Nakano-ku, Tokyo.	2014	
Apr. A technical assistance contract is concluded with TELEFUNKEN in Germany.	1957		Aug. Nagano plant opens.		
Nov. Sasebo Japan Radio Co., Ltd. is founded.			Dec. The Advanced Technology Center opens.	2015	Jul. We release "the world's smallest and lightest S-band solid state radar."
	1960	Feb. The world's first "transistorized LORAN receiver" is released.	Mar. Construction of the production building is completed.		
		Sep. "A rainfall/water-level telemeter system"is delivered to the Futase Dam.	Oct. We celebrate the 100th anniversary of its founding.	2016	May Japan's first "Compact LTE system" is deliverd to Kyoto University.
Jul. A new head office opens in Toranomon, Minato-ku, Tokyo.	1961		Mar. Nagano Japan Radio Co., Ltd. And Ueda Japan Radio Co., Ltd. becomes wholly owned subsidiary.		Jul. "JRM-21 ETC2.0 automotive equipment for motorcycles" is released.
Oct. Japan Radio Cooperation Association is founded.			May The Marine Service Center opens.		
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.	Aug. Kawagoe plant opens.		
		"The sound systems for the Tokyo Olympics"are delivered.	Oct. Alphantron Marine Beheer B.V. becomes wholly owned subsidiary.	2017	May New navigation support tool "J-Marine NeCST" is jointly developed.
Aug. A new Defense Systems factory opens.	1968		Jan. PT. JRC SPECTRA INDONESIA is founded.		
Oct. A laboratory opens.	1969	Oct. A "compact, transistor-type marine radar" is developed.	Apr. San Jose Technical Development Center opens.		
	1970	May Our "JAC-120 general-purpose computer system"is released.	Jul. Alphantron Marine Korea Co., Ltd. is founded.		
		Japan's first "digital flight simulator"is developed.	Oct. JRC becomes wholly owned subsidiary of Nisshinbo Holdings Inc.	2018	
	1971	May Japan's first "real-time signal analyzer"is released.	Jul. ProNav As becomes wholly owned subsidiary.	2019	Sep. Began transmitting disaster-related information to digital signage used at underground commercial facilities using Alertmarker+, the first system of its kind in Japan.
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.		2020	Mar. Developed JM-Watcher II, the first app in Japan that helps prevent collisions by providing notice of approaching marine vessels.
	1977	Jun. "An amateur radio receiver"is released.			
	1979	Mar. "Fully solid-state PCM/PSK multiplex radio communication equipment" is developed.			
	1982				




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)