

HAMAMATSU
PHOTON IS OUR BUSINESS

Light is possibility itself.

A brief look at the company 2025

What Is Light? What Can We Do With Light?

These are the questions we ask ourselves each day,
the key to our devotion to light as a leader in photonics.

This pursuit of light leads us to new discoveries almost everyday.
Fascinated by these daily discoveries, we continue along this path.

Each time our understanding grows through new discoveries, we wonder how much more remains to explore.
This is what makes light so fascinating.

Facing the unknown and giving back what we learn to society—
this is the path of light that Hamamatsu Photonics treads.

MESSAGE FROM THE PRESIDENT

Unlocking the infinite possibilities of light
to make life even better for society and humanity,
and to preserve the environment.



Light is all around us and brings us numerous benefits.
Since its founding, Hamamatsu Photonics has pursued the endless possibilities
of light and continues to investigate the unknown and unexplored aspects of light.

Our unique products and state-of-the-art technologies
have emerged from these pursuits.
In addition, we anticipate the future needs of society and
humanity as well as the environment, and we add value to products and
technologies to solve various problems.

We continue to take on new challenges as a company
committed to contributing to the betterment of society and
the environment by exploring and controlling light.

Representative Director and President | Tadashi Maruno

Management Philosophy
of the Hamamatsu
Photonics Group



MISSION

Photon is our business

We dedicate our efforts
to the advancement of
science and technology
for a better society and
a healthier planet.

VISION

We will pursue unknown
and unexplored areas
to create new markets
harnessing
photonics technologies.

VALUES

Challenge
We never stop trying.

For Society, the Environment, and Humanity

Science and Technology

Quantum Technology
Space and Physics
Life Sciences

Photonics

Health and Well-Being

Medical Devices/Lab Testing
Cancer/Dementia Screenings
Drug Discovery

Society and Environment

Industrial Equipment
Semiconductors
Nondestructive Testing
Energy Analysis

Fields Where Hamamatsu Photonics Contributes Through Light



PET

Building a Society of Good Health and Longevity

PET is a diagnostic method that takes cross-sectional images of heart and brain functions to diagnose the causes and symptoms of disease. It has gained attention as an effective means of detecting cancer, the leading cause of death in Japan. At Hamamatsu, we are working to build a society of good health and longevity not only by developing PET devices but also by conducting applied research from different angles.



Neutrino Observation Kamiokande

Contributing to Two Nobel Prizes in Physics Through Neutrino Detection

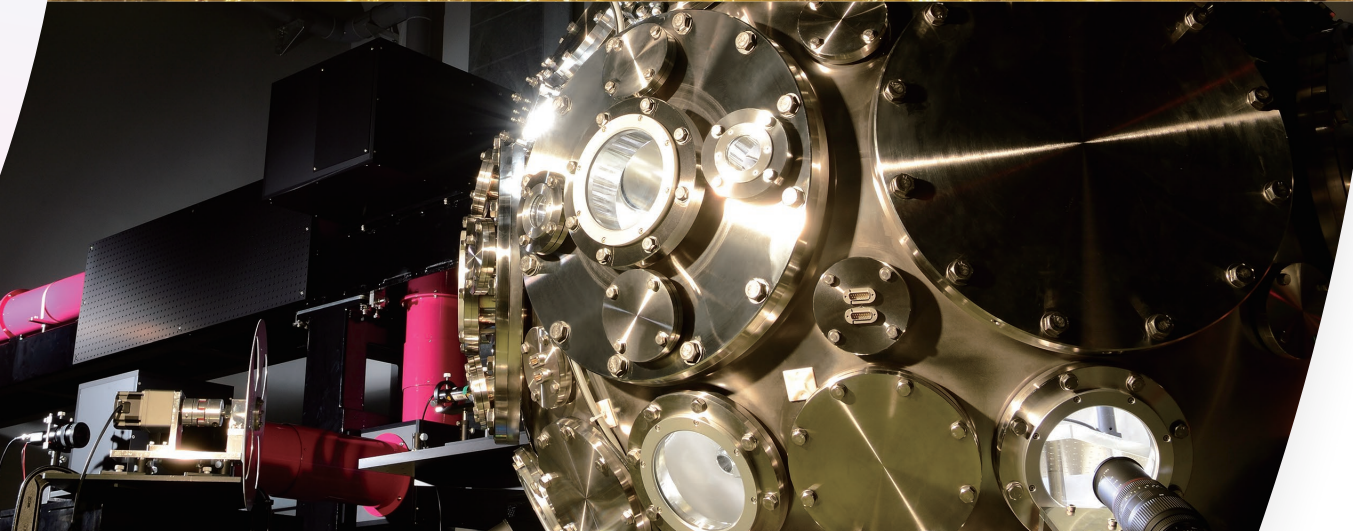
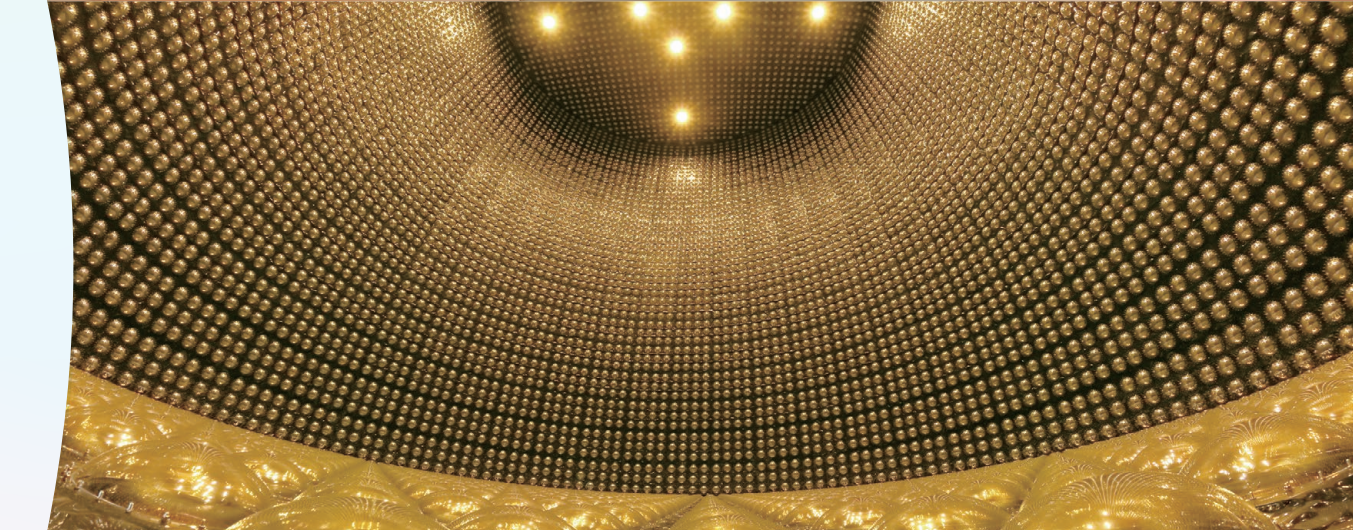
On February 23, 1987, the historic feat of observing neutrinos from a supernova explosion for the first time ever was achieved at Kamiokande. Hamamatsu Photonics' 20-inch photomultiplier tubes captured this once-in-a-millennium opportunity from a supernova explosion 160,000 light-years away. This ever-evolving technology continues to this day in the highly advanced Super-Kamiokande and the Hyper-Kamiokande projects.



Laser Fusion

Working to Solve Both Energy and Environmental Issues

Our sun has shone for 5 billion years and remains the source of life on Earth. Laser fusion, which recreates this gift from the sun through human effort, is now drawing attention. The generation of power through laser fusion, which allows for unlimited extraction of deuterium from seawater without emitting carbon dioxide, shows promise as a secret weapon for solving global energy issues.

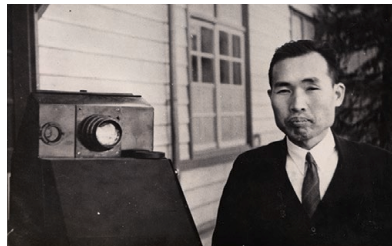


Exploring the Unknown

The things humanity still cannot do
and does not yet know are infinite.
Using light to explore unknown
territories will benefit all of humanity
and create new industries that
transform the way we live.

The Spirit of Prof. Takayanagi, Father of Japanese
Television: Forever Chasing the Unknown

Hamamatsu Photonics was founded by a student of Prof. Kenjiro Takayanagi (Heihachiro Horiuchi, our first president), the first in the world to display the Japanese character for “i” on a cathode-ray tube. Legend has it that Prof. Takayanagi, who pursued his own research to develop technology that would benefit society a decade or two in the future, had in mind an image of the Roman goddess of fortune, Fortuna. She has thick bangs but no hair in the back. This meant that to catch her, one must make every possible preparation, get ahead of her, wait for her to come, then grab her by the bangs. This spirit of innovation lives on at Hamamatsu Photonics, which carries on Prof. Takayanagi’s technology.



Our roots: Prof. Kenjiro Takayanagi



The Japanese character for “i”
displayed on a cathode-ray tube
(The device in the photograph is a reproduction)

The History of Hamamatsu Photonics

1953

Hamamatsu TV Co., Ltd.
(former company name)
established.



1961

Tokyo Business Office
(currently Tokyo Sales Office) opened.

1964

Ichino Factory
(currently Main Factory)
opened.



1966

New York Business Office opened.

1969

Hamamatsu Corporation
established as a U.S.A.
subsidiary.



1973

Hamamatsu Television
Europe GmbH (Germany)
established as a
joint company.



Toyooka Factory opened.



1979

Osaka Sales Office opened.

1980

Joko Factory opened.

1981

Tenno Glass Works opened.

1983

Company name changed to
Hamamatsu Photonics K.K.



1984

Registered on the over-the-counter market of the Japan
Securities Dealers Association.

1985

Headquarters Business Office opened and
Tsukuba Research Laboratory established.

Subsidiary established in France.

1988

Subsidiaries established in the U.K. and Sweden.
Joint company established in China.

1990

Central Research Laboratory opened.

1991

Subsidiary established in Italy.

1994

Miyakoda Factory opened.

1996

Company’s stock registered on the
second section of the Tokyo Stock Exchange.

1998

Company’s stock registered
on the first section of the
Tokyo Stock Exchange.



2000

Mitsue Factory opened.

2002

Masatoshi Koshiba, professor emeritus of the
University of Tokyo, awarded the Nobel Prize in Physics
(for the research at Kamiokande where our
photomultiplier tubes were installed).

2003

Hamamatsu Medical Imaging Center of the
Hamamatsu Medical Photonics Foundation built.

2005

The Graduate School for the
Creation of New Photonics
Industries opened.



2008

Industrial Development Laboratory opened.

2011

Shingai Factory opened.
Subsidiary established in China.

2013

Professors emeritus François Englert and
Peter W. Higgs awarded the Nobel Prize in Physics
(for Higgs boson discovery at CERN’s LHC
where our SSD, APD, and PMT were used).

2014

Our 20-inch photomultiplier tube was
recognized as an IEEE milestone.

2015

Takaaki Kajita, professor
at the University of Tokyo,
awarded the Nobel Prize
in Physics
(for the research at Super-Kamiokande
where our photomultiplier tubes were installed).



2017

Compound Semiconductor
Fabrication Center opened.
Energetiq Technology, Inc. (U.S.A.)
acquired as a subsidiary.

2020

Subsidiary established in Korea.

2022

Hamamatsu Ventures, Japan Co., Ltd.
established as a subsidiary.

FY 2024
Net Sales
¥203.9
billion

2023

Yokohama IT Development Office opened.

2024

NKT Photonics (Denmark) and
Fairchild Imaging (U.S.A.) acquired as subsidiaries.

1953 to 1972

1973 to 1981

1982 to 1989

1990 to 2008

2009 to 2022

2023 Onward

Hamamatsu Photonics’ Path of Growth

From Founding to Product Development

Inheriting the spirit of Prof. Takayanagi, the first president
Heihachiro Horiuchi established Hamamatsu TV Co., Ltd. together
with the second president Teruo Hiruma and others. They devoted
themselves to their work with the goal of developing the top
products in the world and a spirit of “never stop trying!”

1953

Production of
phototubes started.



1956

Release of image pickup tubes.

1958

Release of CdS cells.

1959

Release of photomultiplier tubes.

1961

Production of PbS
photoconductive
detectors started.



1963

Release of infrared video cameras.

1970

Release of deuterium lamps.

1972

Release of silicon photodiodes.

Expand Applications of Photonics Technology

We established production systems with the construction of a new plant.
Although analysis was our products’ mainstay application at that time, we
developed opto-semiconductors for X-ray CT scanners and swept the
optical sensor market for X-ray CT scanners. The application of
opto-semiconductors expanded from analysis and medical use to a wide
range of fields including industrial, academic, and measurement fields.

1977

Release of
streak camera systems.



Establishing the Current Management Base Through a Division System

Securing outstanding human resources is essential to superior
planning and development. The company name was changed to
“Hamamatsu Photonics K.K.” and company shares were offered in
the over-the-counter market. Meanwhile, a divisional system was
introduced to carry out flexible corporate activities, and the current
management base was established.

1982

Release of infrared LEDs.

1984

Release of xenon lamps.

1985

Release of linear image sensors.

Release of high power pulsed laser diodes.

1986

Release of photo ICs.

1987

Release of excimer lasers.

A New Challenge: Pursue Unknown and Unexplored Realms

Achieving more ambitious company goals requires taking on challenges
in realms unknown and unexplored by humanity. As specific examples of
facing such challenges, we established the Central Research Laboratory,
the Hamamatsu Medical Imaging Center which aims for early detection of
cancer and dementia, and the Graduate School for the Creation of New
Photonics Industries to train human resources in photonics technology.

1994

Release of microfocus X-ray sources.

1998

Release of
flat panel
sensors.



2004

Release of
Stealth Dicing Engine™ unit.

2005

Release of mini-spectrometers.

2006

Release of
MPPC®
(Multi-Pixel
Photon Counter).



2007

Release of quantum cascade lasers.

Expansion of the photonics industry

In addition to strengthening our core photonic devices, we
established the Global Strategic Challenge Center (GSCC) and
strived to expand the photonic industry by collaborating with startup
companies and building an in-house venture function.

2011

Release of ORCA® -Flash4.0
(scientific CMOS camera).

2021

Release of
ORCA®-Quest.



2016

Release of MEMS-FPI spectrum sensor.
Release of MEMS mirror.

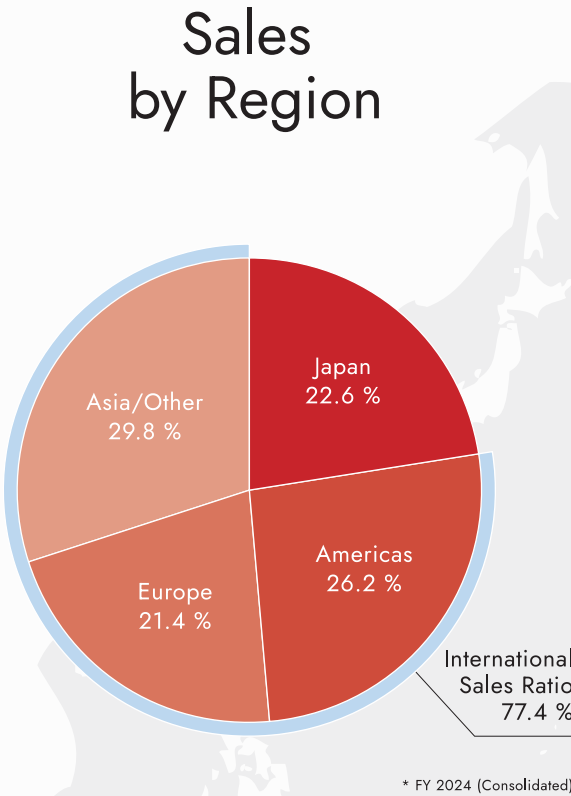
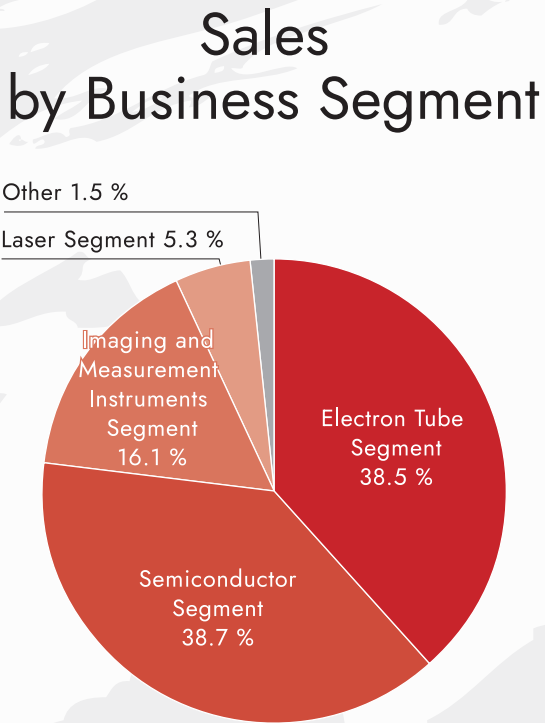
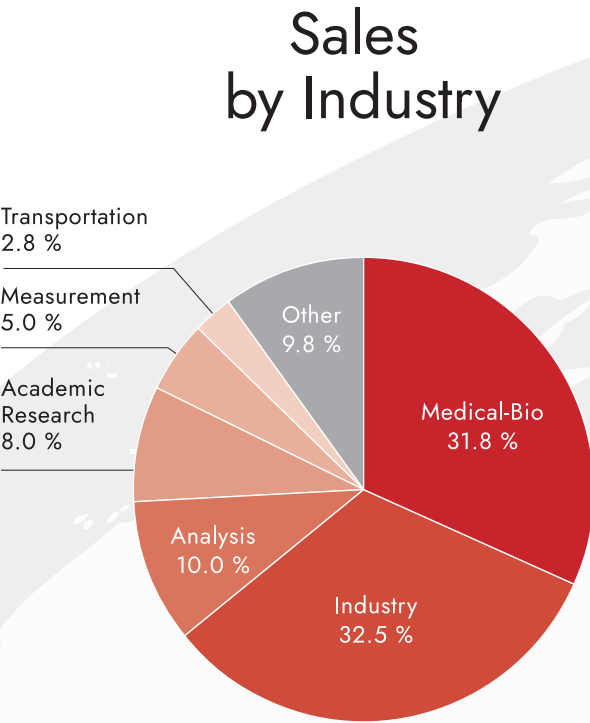
Becoming a Social and Environmental Value Creation Company

We will contribute to the realization of a prosperous society and
environment by providing higher value-added products through
properly understanding not only customer needs but also social and
environmental needs while also strengthening cooperation between
divisions and with external organizations.

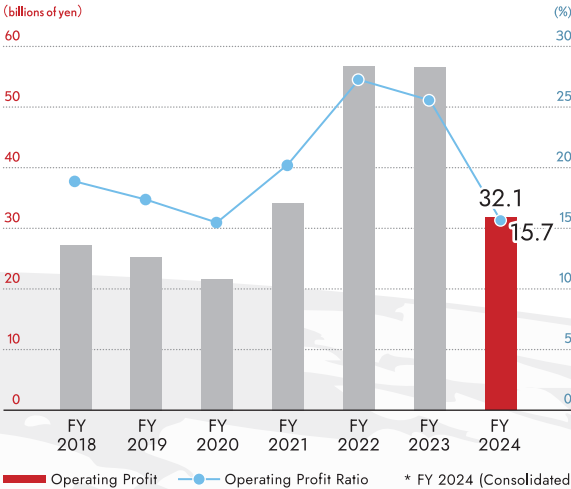
Hamamatsu Photonics in Numbers

The following is a summation of various initiatives and characteristics of the Hamamatsu Photonics Group based on a variety of data.

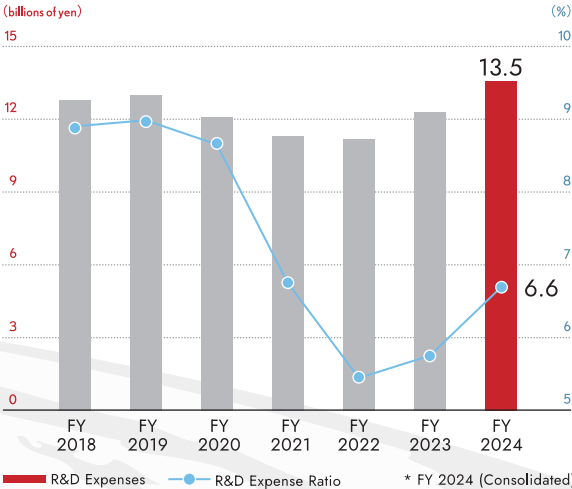
Net Sales **¥203.9 billion**



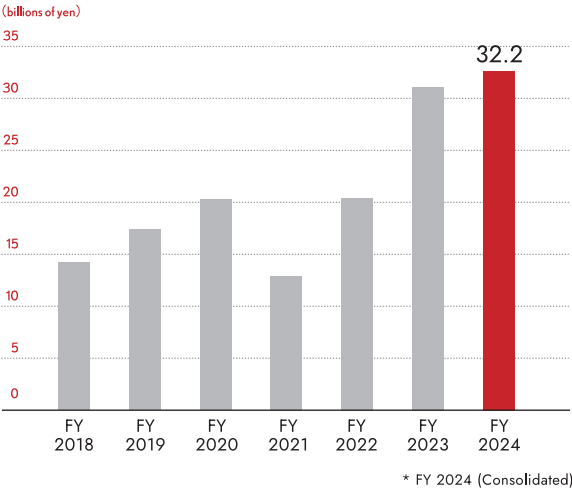
Operating Profit **¥32.1 billion**



R&D Expenses **¥13.5 billion**



Capital Investment **¥32.2 billion**

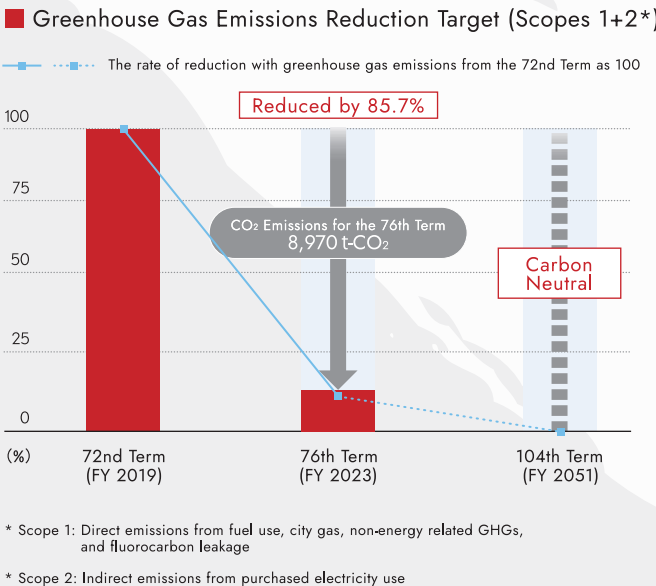


Environmental Initiatives

Greenhouse Gas Emissions
(Compared to FY 2019)

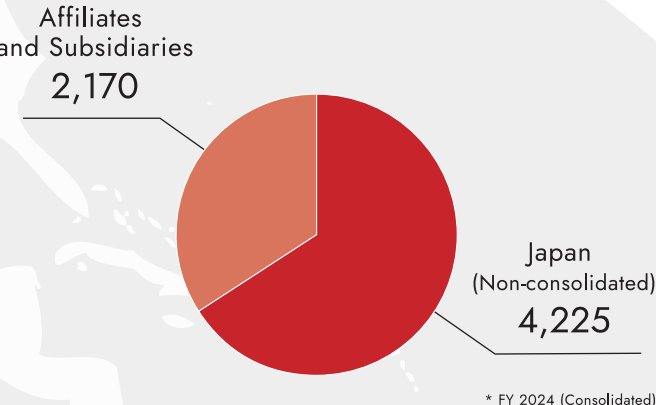
Reduced by **85.7%**

Long-Term Vision
Achieve **carbon neutrality** by 2050



Number of Employees

6,395

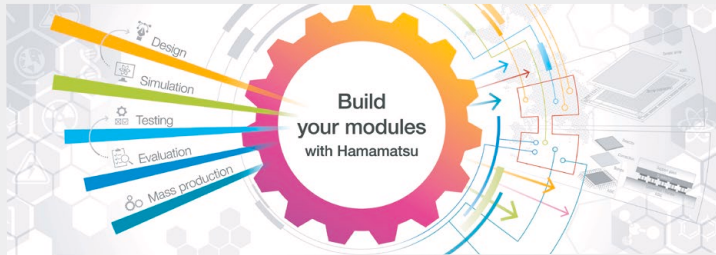
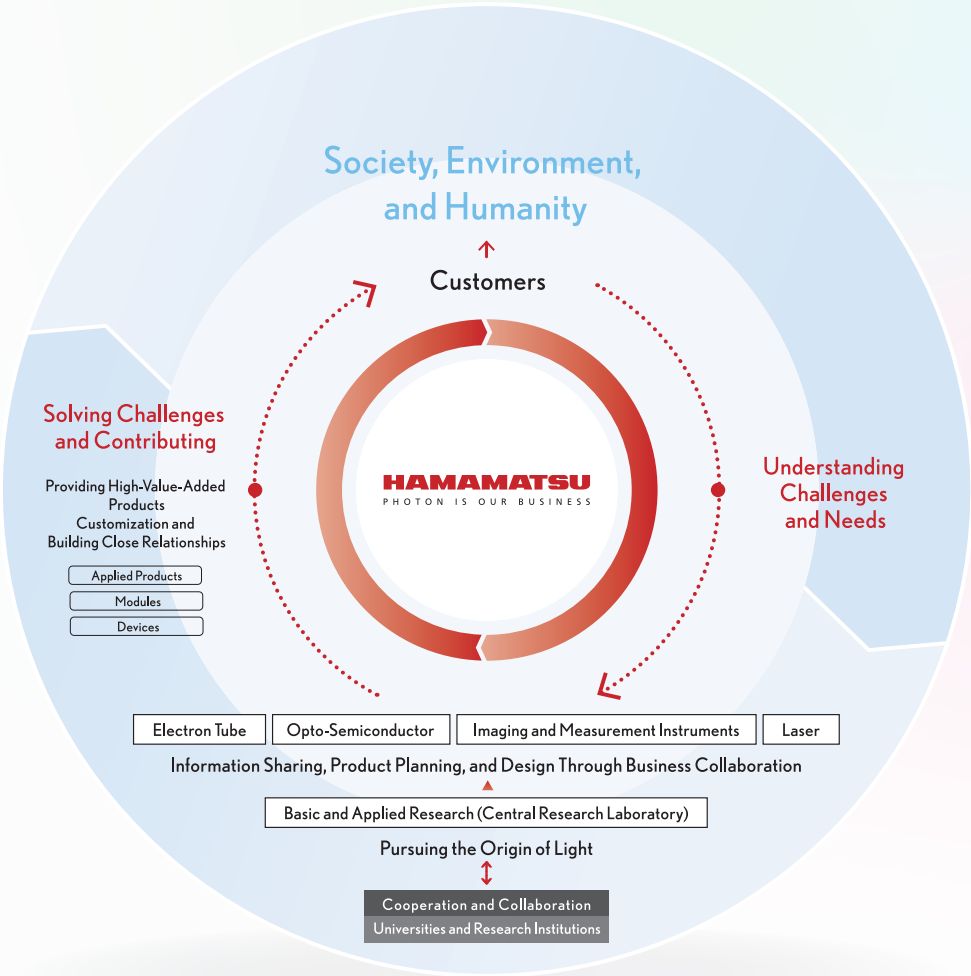


Added Value Creation Cycle

Hamamatsu Photonics employs a cycle that creates social value through photonics technology.

Each of our business entities builds close relationships with customers to understand their needs, makes plans, invests in prototype development, and supplies products. To accurately respond to our customers' needs, we must have our own manufacturing line and customization service based on our in-house manufacturing capabilities, leading to high-value-added devices and modules.

Previously, this cycle was run according to each segment. However, in the future, we will strengthen cooperation among segments, providing higher-value-added products. We will also anticipate and address our social and industrial needs that our customers may not be unaware of, to provide them with higher-value-added products. This is an extremely important cycle for achieving sustainable growth, and we view it as a form of social contribution through our core business activities.



Providing High-Value-Added Modules

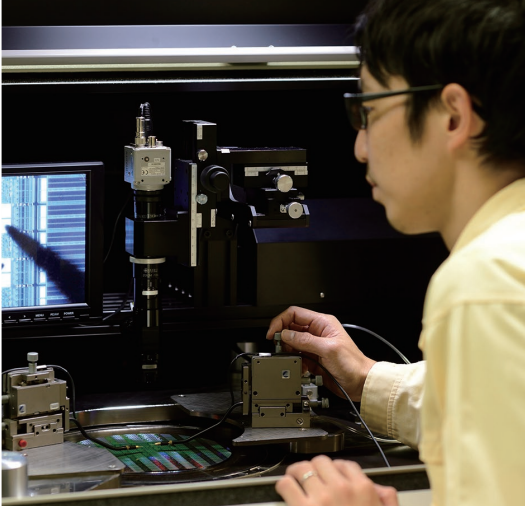
Custom modules created by combining unique photonics technologies from each business segment - optical sensors, optical systems, signal processing circuits, and software optimized to the customer's requirements - are installed directly as core components of equipment to provide high added value. In addition to existing devices, high-value-added custom modules enabled through business partnerships will be used to further meet customer needs.

Our Business Segments

BUSINESS INTRODUCTION

- Electron Tube
- Opto-Semiconductor
- Imaging and Measurement Instruments
- Laser
- Basic and Applied Research

* Energetiq Technology, Inc., Beijing Hamamatsu Photon Techniques Inc., Fairchild Imaging, Inc., and NKT Photonics A/S are wholly owned subsidiaries of Hamamatsu Photonics.



Imaging and Measurement Instruments Segment

Image Processing and Measurement Equipment

Systems Division

Develops and manufactures systems that integrate light detection, imaging, and image measurement technologies with optical sensors, such as opto-semiconductor devices and electron tube devices, as key components.

Electron Tube Segment

Photomultiplier Tubes, Image Devices and Light Sources

Electron Tube Division

Develops and manufactures optical sensors such as high-speed, high-sensitivity photomultiplier tubes, highly stable and long-life lamps, as well as applied products in these areas.

Energetiq Technology, Inc.

Develops and manufactures highly reliable, high-brightness broadband light sources for industrial and scientific applications.

Beijing Hamamatsu Photon Techniques, Inc.

Develops and manufactures photomultiplier tubes, scintillators, and measurement instruments primarily for customers in China.



Laser Segment

Lasers and Laser Applied Products

Laser Division

Develops and manufactures laser products in-house, including excitation laser diode modules, customized laser application products, and laser engines.

NKT Photonics A/S

Possesses photonic crystal fiber manufacturing technology and offers a product line of fiber laser light sources that leverage these core technologies.



Opto-Semiconductor Segment

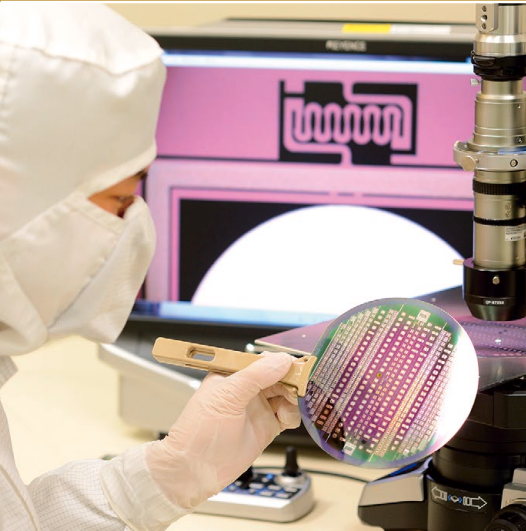
Opto-Semiconductor Devices

Solid State Division

Develops and manufactures opto-semiconductor devices such as photodiodes, photo ICs, and image sensors utilizing proprietary semiconductor process technology, mounting/packaging technology, and MEMS technology.

Fairchild Imaging, Inc.

Possesses high-performance CMOS design technology and supplies image sensors optimized for scientific measurement and dental imaging.

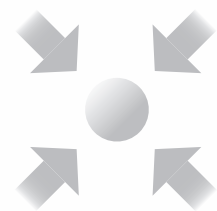


Basic Research and Applied Research

Conducts a wide range of research including basic research to explore the essence of light as well as applied research to adapt resulting technologies and knowledge for industrial use.

Measuring, Creating, and Controlling Light

Products from each business segment are created from technologies that measure, create, and control light. By combining these three technologies, Hamamatsu Photonics provides optimal solutions sought by customers.

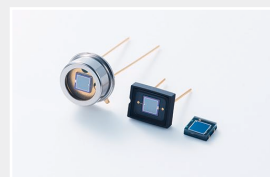


Measuring Light

Utilize received light to gather information about objects



Photomultiplier tubes



Si photodiodes



Cameras

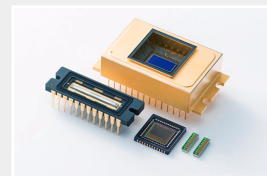
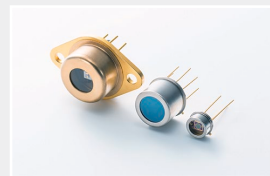
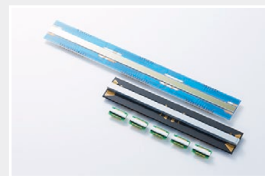


Image sensors



Infrared detectors



X-ray sensors



Spectrometers



Failure analysis system



Digital slide Scanner



Creating Light

Generate light from electrical energy



Lamps



UV-LED light sources



Microfocus X-ray sources



Laser-Driven Light Sources (LDLS®)



LEDs



Semiconductor lasers



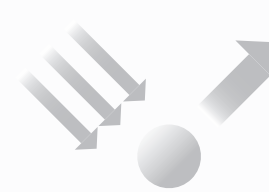
Lamp modules & units



Fiber lasers



Supercontinuum white light lasers



Controlling Light

Control light freely by using the properties of light



Fiber optic plates



LCOS-SLM



FAC lenses



Terahertz wave plates



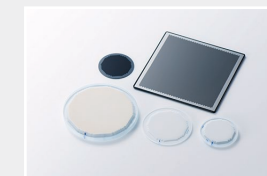
MEMS mirrors



Photonic crystal fibers



Optical blocks



Capillary plates



Collimating capillary lenses

| Offering Optimal Solutions

Hamamatsu Photonics combines the three

aspects of measuring, creating, and controlling light to provide optimal solutions sought by customers.

MEDICAL



- Dental Diagnosis
- X-ray CT
- PET Diagnosis
- Fundoscopy
- Blood Testing
- Cancer Tissue Observation

LIFE SCIENCE



- Flow Cytometer
- DNA Sequencer
- Fluorescence Imaging
- Drug Discovery Screening
- Mass Spectrometry
- Electron Microscopes

ENVIRONMENT



- Gas Analysis
- Soil Analysis
- Water Quality Inspection
- Plastic Recycling
- Underwater Optical Communication
- Radiation Detection

MANUFACTURING



- Encoder
- Electronic Component Inspection
- Laser Processing
- Food Inspection
- Semiconductor Manufacturing/Inspection
- UV Bonding

EVERYDAY LIVING



- Automotive
- Brightness/Color Monitor
- Flame Detection
- Touchless Displays
- Robot Vacuum Cleaners
- Baggage Inspection

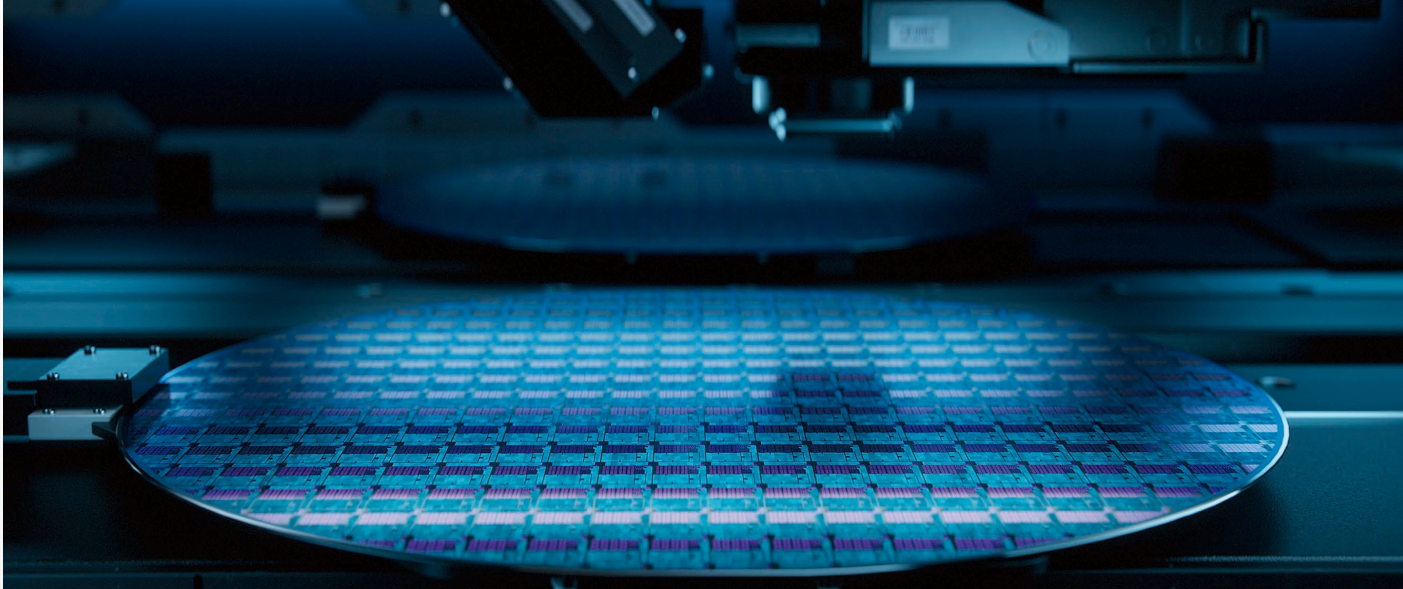
ACADEMIC RESEARCH



- Super-Kamiokande/Hyper-Kamiokande
- LHC (Large Hadron Collider)
- Subaru Telescope
- Upper Atmosphere Imaging
- Light-Emitting Material Research
- Quantum Technology

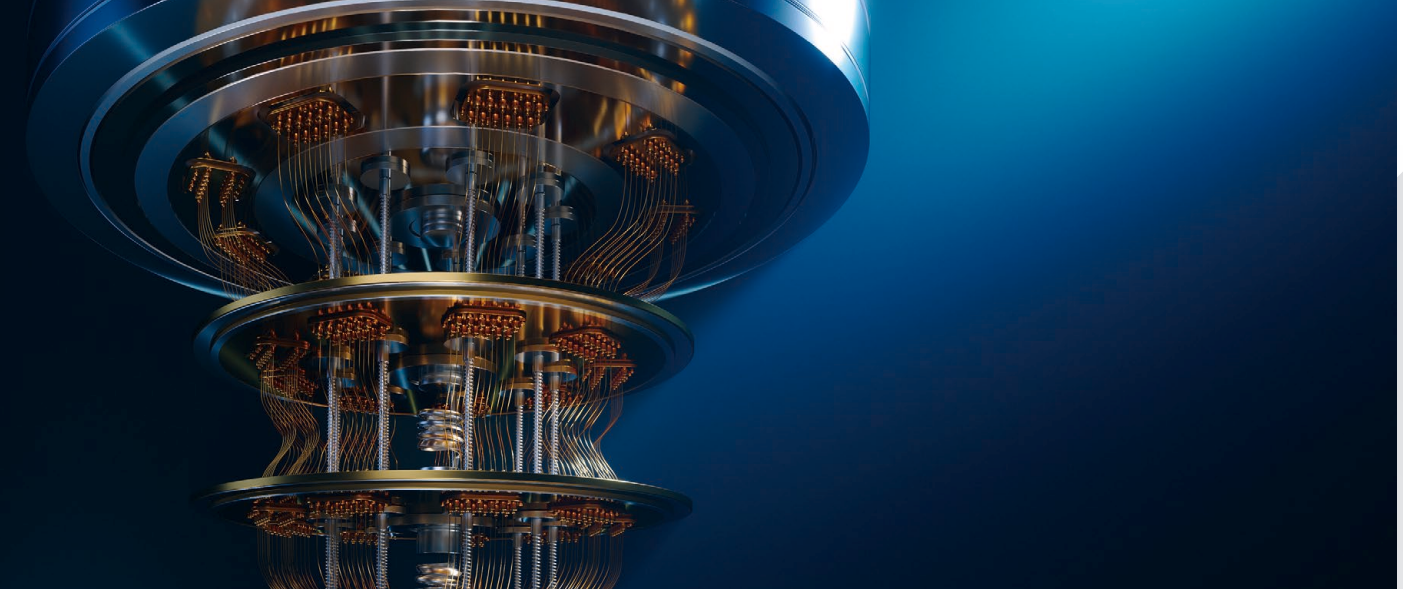
Semiconductors

Our products are widely used in semiconductor manufacturing and inspection processes essential to modern life, and our technology plays a central role in manufacturing semiconductors for generative AI, a market expected to grow. We offer advanced solutions through our technology to address challenges in semiconductor miniaturization and stacking.



Quantum Technology

Our technology will help achieve practical quantum computers that can quickly solve complex problems that are difficult to solve with conventional approaches, bringing innovation to everything from scientific research to cryptography and drug development. As the only company with laser light sources, photon detectors, and optical manipulation devices, we will serve as the leader in creating this market.



Greater Breadth and Diversity.

The Possibilities of Photonics Technology.



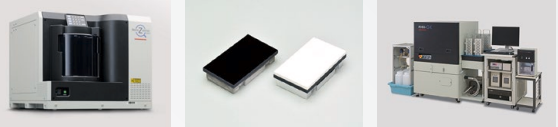
Nondestructive Testing

Our products and technologies—including X-ray sources, optical sensors, and cameras—play a vital role in nondestructive testing for food and security applications, as well as in the manufacturing of electric vehicles (EVs). Beyond developing solutions for inspecting increasingly large EV batteries and electronic components, we are committed to meeting market demands by expanding our business through the integration of our advanced technologies.



Medical/Bio

Our technologies and products are used widely in a variety of fields aimed at a future where people live longer, healthier lives, such as low-stress patient testing, efficient drug development, and creating novel treatments. The provision of high-quality, high-stability lasers from NKT Photonics has allowed us to grow our market from diagnostics to therapeutics, holding potential for further growth.



Topics

☑ Social Contribution Efforts

■ Academic Promotion Activities

We work with the Research Foundation for Opto-Science and Technology to spread awareness of photonics through international conferences and research grants.

Supporting the Hamamatsu Conference

We hold the annual Hamamatsu Conference to explain cutting-edge photonics research in an accessible way to the community.



■ Support for Educational Activities

We conduct educational activities mainly for elementary, middle, and high school students in partnership with relevant organizations and the local community.



☑ Photon terrace

■ A Website for Learning About Light

The photon—it is one particle of light. Essential to our lives, yet shrouded in unfathomable mystery. A profound understanding of light unlocks limitless possibilities for our future. Photon terrace is a website where you can discover the present and future of light and photonics.



Corporate information is available on our website.



List of Locations

Europe/Middle East/Africa

1 PHOTONICS MANAGEMENT EUROPE SRL

2 HAMAMATSU PHOTONICS EUROPE GMBH

HAMAMATSU PHOTONICS DEUTSCHLAND GMBH

2 Main Office

3 Netherlands Office

4 Poland Office

5 Israel Office(HAMAMATSU PHOTONICS ISRAEL LTD.)

HAMAMATSU PHOTONICS FRANCE S.A.R.L.

6 Main Office

7 Swiss Office

1 Belgian Office

8 Spanish Office

HAMAMATSU PHOTONICS UK LIMITED

9 Main Office

10 South Africa Contact

HAMAMATSU PHOTONICS NORDEN AB

11 Main Office

12 Danish Office

HAMAMATSU PHOTONICS ITALIA S.R.L.

13 Main Office

14 Rome Office

15 NKT PHOTONICS A/S

Asia and Oceania

HAMAMATSU PHOTONICS (CHINA) CO., LTD.

16 Main Office

17 Shanghai Branch

18 Shenzhen Branch

19 Wuhan Branch

BEIJING HAMAMATSU PHOTON TECHNIQUES, INC.

20 Main Office

21 Langfang Factory

HAMAMATSU PHOTONICS TAIWAN CO., LTD.

22 Hsinchu Office

HAMAMATSU PHOTONICS KOREA CO., LTD.

23 Main Office

24 Dongtan Plant

Americas

25 PHOTONICS MANAGEMENT CORP.

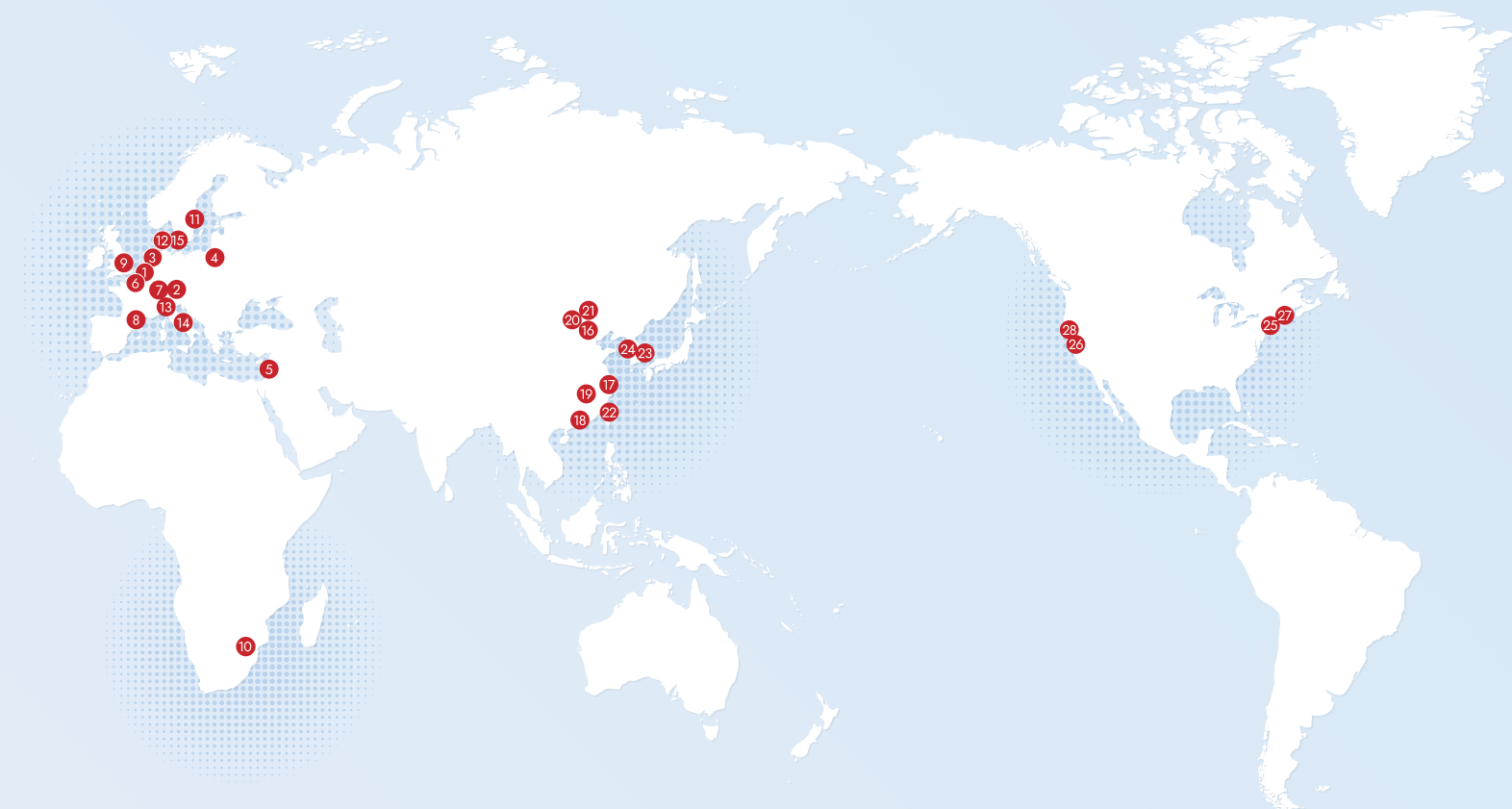
HAMAMATSU CORPORATION

25 Main Office

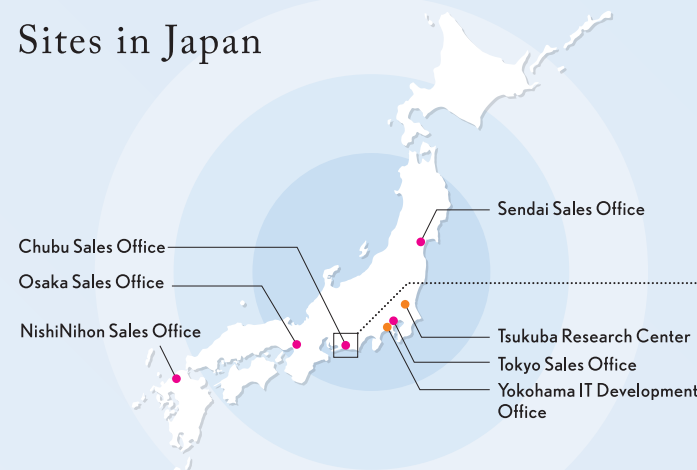
26 California Office

27 ENERGETIQ TECHNOLOGY, INC.

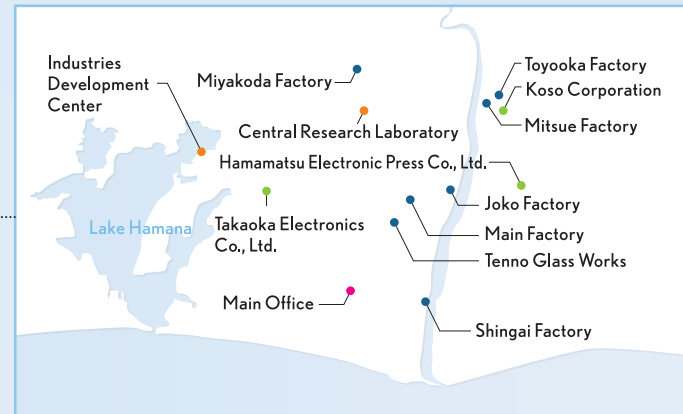
28 FAIRCHILD IMAGING, INC.



Sites in Japan



Outskirts of Hamamatsu City



● ... Offices ● ... Production sites ● ... Research sites ● ... Domestic subsidiaries

Corporate Profile

Established	September 29, 1953
Capital	35,146 million yen
Main Product Lines	Photomultiplier Tubes, Imaging Devices, Light Sources, Opto-Semiconductor Devices, Image Processing and Measurement Equipment, Laser Equipment, Laser Equipment Components
Number of Issued Shares	330,167,540 shares

Directors

Representative Director and President, Chief Executive Officer	Tadashi Maruno
Representative Director and Vice President, Chief Operating Officer	Hisaki Kato
Representative Director, Senior Managing Executive Officer	Takayuki Suzuki
Director, Managing Executive Officer	Kazuhiko Mori
Director, Managing Executive Officer	Ken Nozaki
Director, Managing Executive Officer	Naofumi Toriyama
Outside Director	Kazue Kurihara
Outside Director	Takuo Hirose
Outside Director	Kaoru Minoshima
Outside Director	Takaaki Kimura
Audit & Supervisory Board Member (Standing)	Akira Utsuyama
Audit & Supervisory Board Member (Standing)	Michihito Suzuki
Audit & Supervisory Board Member (Outside)	Shoji Nakano
Audit & Supervisory Board Member (Outside)	Seidai Hirai
Managing Executive Officer	Kazuya Suzuki
Senior Executive Officer	Hiroyuki Okada
Senior Executive Officer	Fumio Iwase
Executive Officer	Koichi Nagumo
Executive Officer	Shuichi Osada
Executive Officer	Haruyoshi Toyoda
Executive Officer	Shinji Ito
Executive Officer	Masato Tsutsumizaki
Executive Officer	Hiroshige Takada
Executive Officer	Takashi Ogasawara
Executive Officer	Kazuo Ueno
Executive Officer	Toshimichi Ishizuka
Executive Officer	Naoki Uchiyama

