

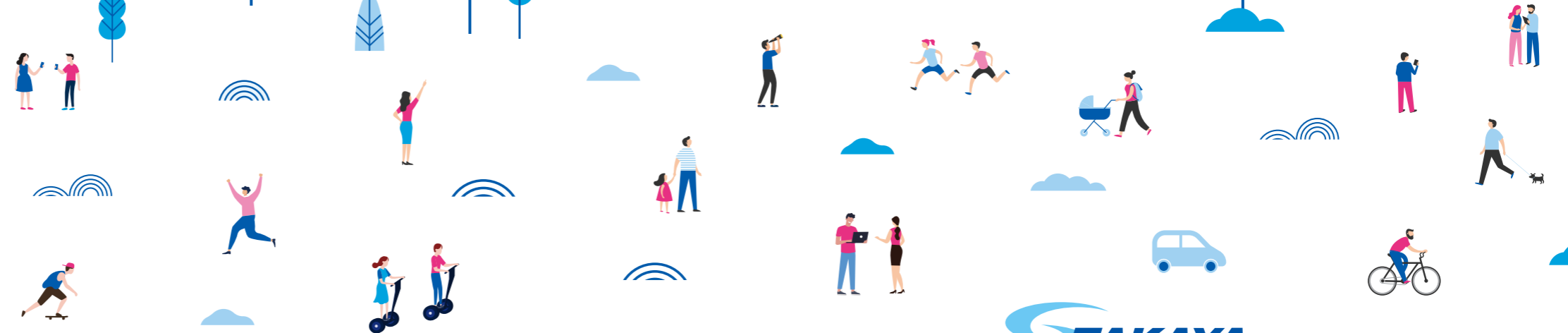
S-TAKAYA
ELECTRONICS INDUSTRY CO.,LTD.

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Check our website for details
<https://www.s-takaya.co.jp/en>

S-TAKAYA

Search



Contribute to the **Future of Society**

With our unique **technology** and **know-how**,
we utilize forefront technology and
contribute to the **future** of society.

"S" contains

The "S" included in the company name has various meanings and it is reflecting the era of diversity.
Here, we Start such company.



SATOSHO



SURPRISE



SMART



SPECIAL



SEEK



SPICES



SMILE



SCOOP

August 1979 → October 2021

Renamed and reborn as "S-TAKAYA ELECTRONICS INDUSTRY CO.,LTD."



Business Our Business

We develop unique LSI device and modules and build production system

We, S-TAKAYA, have been contributing ourselves to the development of information society through the development and manufacturing of LSI (Large Scale Integrated Circuit) device and module.

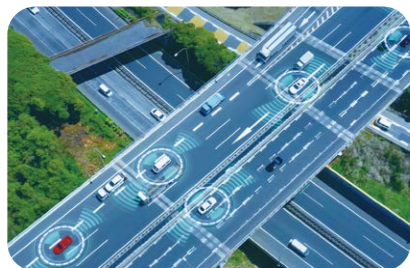
In the growing society, the requirements of the customer is diversifying. We continue creating and providing wide variety of solutions by such as manufacturing unique LSI device and products, building production system and manufacturing customized equipment and jigs.

SERVICE



LSI device and module

We manufacture and inspect various types of modules including in-vehicle, medical and smart phones, and also, we manufacture packages such as BGA, COF, Image sensors.



Radar module

We provide customized offer from design and development of radar module to mass production according to the needs and environment of the customers.



Manufacturing Equipment

We develop and manufacture unique equipment which automates the manufacturing process. Also, we undertake the equipment assembly work which is designed by the customer.



Environmental products

We offer product and services which are environmental friendly.

Reason Why S-TAKAYA is selected

Keep satisfying customer needs

We satisfy the customer requirements with our manufacturing technology and know-how for various semiconductor assemblies which has been developed with more than 40 years history since the establishment.



REASON 01

We build the optimum semiconductor assembly process according to the characteristics of the product.

As a semiconductor assembly factory, we have been manufacturing a wide variety of products and developing necessary equipment in 40 years since our establishment. Based on the manufacturing technology and know-how with the sufficient experience, we offer the optimal solutions which meet various needs of the customer.

REASON 02

We provide one-stop support for all semiconductor assembly processes in Japan.

We offer one-stop support which completes all processes - from wafer polishing and dicing, up to package, module assembly and final inspection - in one place. Under a consistent management system, with timely output, we support our customers product plans from the product development phase to mass production.

REASON 03

We have various utilities and test devices that are necessary for semiconductor assembly work.

We have been building a manufacturing environment according to the needs such as downsizing and cleaning of semiconductor packages. Also, we have high-clean class working environment (Class100) which is necessary for packaging of image sensor. Besides, we have various assessment and evaluating equipment which support the product development phase to mass production, and thus, we are able to meet various customer needs quickly.

REASON 05

High quality, reliable and secure products that satisfy various quality requirements.

To satisfy various quality requirements of the customer, we acquired the third party certification: ISO9001, ISO14001 and IATF16949. Also, we provide high quality, reliable and secure products which cleared various tests (environmental tests and endurance tests: MSL etc.) according to the operating environment.

REASON 04

We solve QCD concerns by equipment and jig offer, design and development.

With our customers, we consider and select optimal equipment and jigs in terms of Q (quality), C (cost) and D (delivery). At the development phase, we propose ideas to evaluate products in a short delivery time while reducing the initial costs, and at the mass production phase, we propose equipment and jigs which are appropriate to sustain the product quality in long-term.

LSI Device Module Large Scale Integration

We support our customers with sufficient experience and technical capabilities which meet various needs.

With the dramatic evolution of electronics, LSI device and module are required to have higher functionality with downsizing. We, in order to meet these market demands, are producing latest LSI device and module by integrating technologies, equipment and systems with installing newest equipment and building efficient production system.

Production System

We can offer one-stop support from wafer testing to module mounting. With our unique technology, we support the customer to build the required production system.

01 Request



We make products according to requirements of the customer. Please feel free to contact us.

02 Wafer test



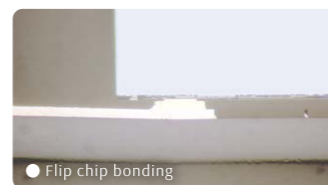
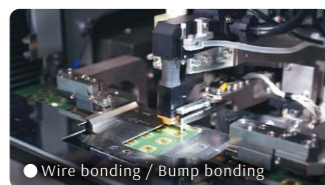
Wafer test of the product.

03 Polishing / Dicing



Backside polishing, laser grooving, Wafer dicing.

04 Post-process assembly of LSI device



Assemble with our unique technology.

05 Module mounting



Check the product through mounting process.

06 Final test/ Appearance check



Test before delivery. Detailed check of the performance.

07 Delivery



We support one-stop service from request to delivery.

Product lineup

- Camera module Image sensor
- Module/MCM
- COF (Chip On Film)
- BGA (Ball Grid Array)/ Plastic package
- Special molding (Transparent plastic mold)
- Special molding (Partially exposed mold)
- Special molding (Premolded hollow package)
- KGD (KNOWN GOOD DIE)

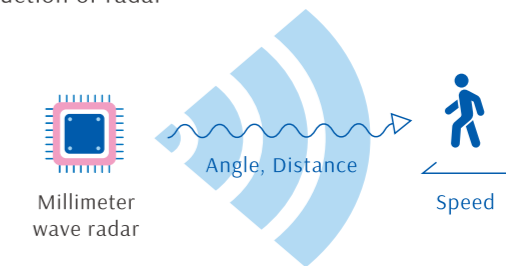
Radarmodule Millimeter Wave Radar

Our technical capability makes one-stop support from development to mass production possible.

We support everything from designing, developing to mass production of radar modules which meet requirements of the customer.

Advantage of radar

The millimeter wave at the frequency of 30GHz – 300GHz has a strong straightness characteristic that it has less affects from external environmental factors such as rain and fog. The device which uses this millimeter wave for sensing is called millimeter wave radar. With millimeter radar, it is possible to obtain the data of distance, angle and speed of the object.



	Radar	Infrared	Ultrasound	Camera	LIDAR
Short distance detection (2m or less)	●	●	●	●	●
Medium distance detection (2-30m)	●	●		●	●
Long distance detection (more than 30m)	●				●
Distance detection	●	●		●	●
Speed detection	●		●		●
Angle detection	●	●		●	●
Environmental resistance	●				
Freedom of product design	●				
Size	●	●	●	●	
Price	●	●	●	●	

Where millimeter wave radar can be used?



Anti-crime measure

It can be applied as an anti-crime measure, as it detects the intrusion of suspicious person by identifying the distance and angle.



Safety detection

It can detect sudden illnesses and abnormalities while considering the privacy, in the places which installing camera would be difficult such as toilet and bathroom.



Monitoring of babies and nursing-care places

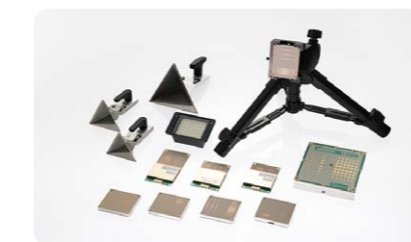
It can identify the changes in medical condition by detecting the breath and pulse on the bed, and thus, it can prevent the accidents such as suffocation.



Energy-saving device

Through the combination with lights and home appliances, it can be applied as energy-saving device as the radar enables automatic control of the power supply via detecting human activities.

About Evaluation kit



It is possible to immediately start evaluating your radar module with the evaluation kit. By extracting the issues using the evaluation kit, it is possible to reduce the cost for trial production and evaluation.

Evaluation kit series

Series	MMIC	Frequency	Distance	Speed	Angle
ST24ZS2 Series	Infineon Technologies	24GHz	●		
T14 · T16 · T18 Series	Texas Instruments	79GHz	●	●	●
T68PE Series	Texas Instruments	60GHz	●	●	●
T18PE Series	Texas Instruments	76GHz, 79GHz	●	●	●
AT Series	Analog Devices	24GHz	●	●	●

Facility & Original product Manufacturing Equipment

We contribute to the innovation at manufacturing sites.

We have been developing and manufacturing more than 5,000 unique automation equipment to achieve high quality and highly efficient manufacturing. We develop equipment that meets the requirements of our customers with our unique sense developed with our manufacturing experience. We also undertake the assembly work of the equipment designed by the customers.

Customized test handler DX series

This is a fully automatic test handler with a structure in which the transport unit and the inspection unit are separated. We can also offer various test units according to the inspection contents of the camera module.



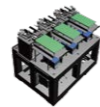
Actual examples of the test unit adoption

We customize the test unit according to the work and inspection environment of the customer.

DX1327

For the stroke behavior measurement of camera module

- 3 Stage (6dut) type
- Test unit
- VCM stroke inspection / OIS (optical image stabilization) characteristic inspection



DX1533

For the downward characteristic inspection of camera module

- 3 Stage (6dut) type
- Test unit
- infinity characteristic inspection / black scratch inspection / white scratch inspection



DX2299

For ultra wide-angle camera module

- 2 Stage (4dut) type
- Test unit
- Optical center inspection / black scratch inspection



Characteristics

- It is possible to configure the test unit according to various objects and inspection contents.
- The other packages would be proposed after consultation. (CSP / BGA / QFN / QFP, etc.)
- Standardized object conveying section
- Handler shape W1760 x D1230 x H2280 (mm)
- Test unit dimension: W 940 x D700 x H1000 (mm)
- Processing capacity: 300 - 500 (UPH)
- *This varies depending on the test unit and inspection details.

Other equipment development



Camera module fully automatic tester



General-purpose loader / unloader



Laser solder mounting equipment



Laser welder

Special Liquid Crystal Display

We undertake contract development and manufacturing of liquid crystal displays and digital signage for special applications and environments upon request. It is used in many situations such as outdoor, dustproof and waterproof, and ultra-thin and built-in types.

Characteristics of our special liquid crystal display

- POINT 01** Available from prototype development to mass production
- POINT 02** Dustproof and waterproof specifications, high brightness (1200nit) available
- POINT 03** Ultra-thin slim design, space-saving specifications available
- POINT 04** Reliability test, dustproof and waterproof test, vibration test and environmental test evaluation available

Environmental Products

We propose what we can do in order to leave "beautiful earth" for the future.

We have built satisfying supporting system to provide environmental products and services such as installation and after sales service for solar power system and eco products.

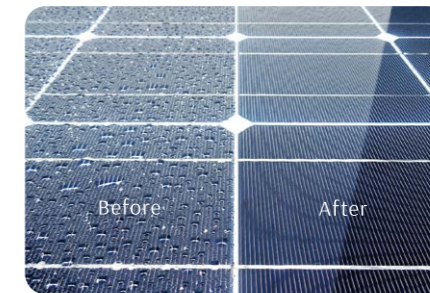
Solar Panel Cleaning



Iron Remover

(Iron Remover for solar panels)

Iron Remover efficiently removes the iron powders accumulated on solar panels.



PV Hydro Coat

(Coating for solar panels)

PV Hydro Coat prevents the decrease in power generation from dirt accumulation on solar panel surface by utilizing rain power utmost.

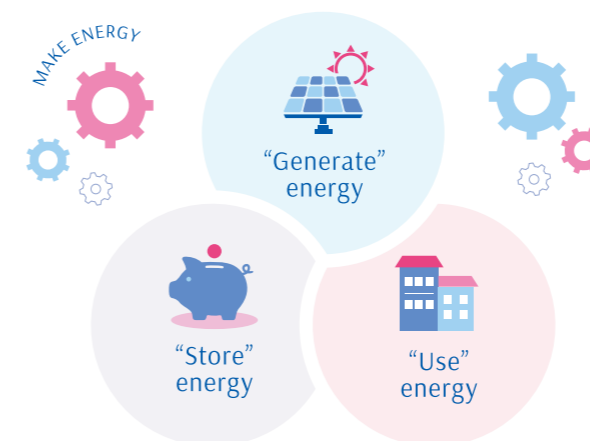


Solar Panel Cleaning

We provide proper cleaning service according to the size of solar panel system.

Solar Power / Storage Battery System

Self-sufficiency of electric power is the essential requirement to enrich our lives. We propose the most appropriate way of "Generate", "Store" and "Use".



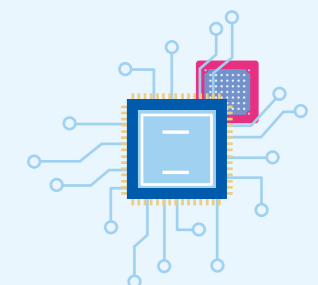
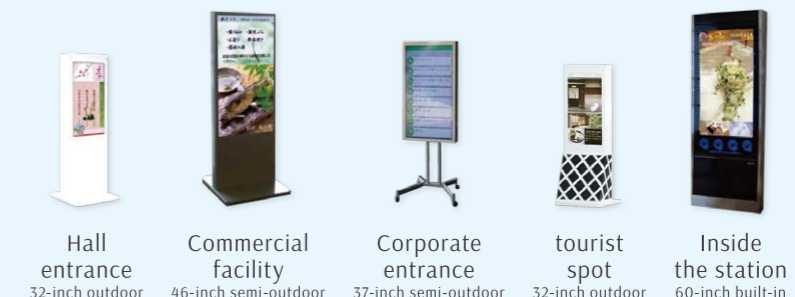
Slightly acidic hypochlorous acid water generator EL BEENO

Slightly acidic hypochlorous acid water makes the daily hygiene management easier.



Applications and installations

Our displays are used in many places such as station platforms, bus stops, government offices, airports, public facilities, and department stores.



Sustainability Our Activities

We achieve the carbon neutrality through environmental friendly manufacturing.

Activities on SDGs

01 Be friendly to the earth



We engage ourselves in zero emission based on ISO14001 (certified for 20 years) by building a process with minimized environmental impact, from material selection to manufacturing process and disposal.

02 To an affluent society



We contribute ourselves to an affluent information society through manufacturing various module products based on our technology with over 40 years history which is capable to fit into this diversifying era.

03 To a safe and secure society

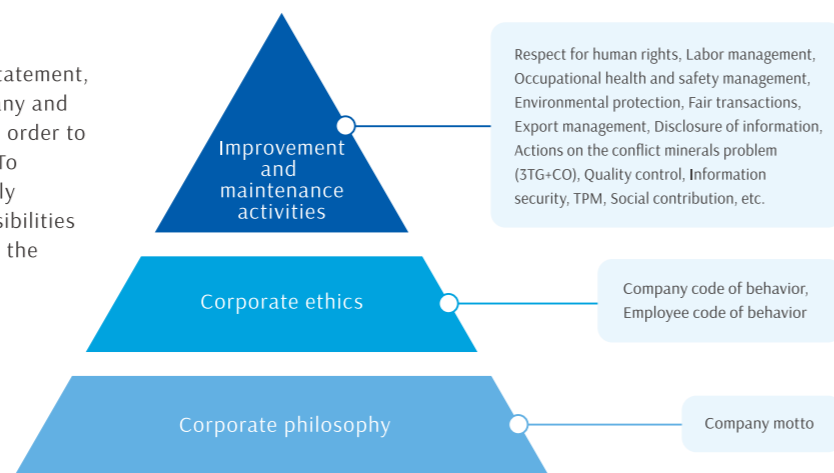


We contribute ourselves to a safe and secure society by developing and utilizing the module products which can be applied on various human lives such as medical care, disaster prevention and vehicles.

Activities on CSR

At S-TAKAYA, under our company motto and mission statement, all employees adhere to the code of behavior of company and employees, and promote healthy business activities, in order to contribute to the sustainable development of society. To achieve this, we enhance our company value by not only complying the law, but also fulfilling our social responsibilities as a good corporate citizen and establish trust with all the related parties.

In CSR activities of S-TAKAYA, following global guidelines and principles are referred.
Industrial code of behavior such as ISO26000 (Global guidelines for corporate social responsibility) / JIS Z26000 "Guidance of Social Responsibility / SDGs "Sustainable Development Goals" / RBA (Responsible Business Alliance)



Policies

Environmental Policy

As S-TAKAYA develops, designs, manufactures and sells semiconductors, electrical machines and related products, it is our responsibility to manufacture products which are friendly to the environment of the earth. We put efforts on environmental preservation activities based on our behavioral guidelines and basic environmental philosophy.

Quality Policy

"Quality First in Heart and Mind"

Information security policy

S-TAKAYA is, located in Okayama prefecture where has less natural disasters, manufacturing and inspecting IC and LSI device products with various packages. Also, we develop, manufacture and sell our unique products and electrical and electronic equipment by utilizing our know-how built over many years. In our business, the information needs to be securely dealt with at daily basis, and especially, it is essential to strengthen the information security management for production management system, customer information and technology information. In order to continue contributing ourselves to the development of information society through development and manufacturing of semiconductor device products, we introduce ISMS and practice highly secure management, and adhere to following policy for our continuous improvement.

Company Company profile

Greeting from our president

Build a rich life, create an attractive workplace, and aim for a comfortable society

Since our establishment in 1979, with these motto and mission statement, we have been contributing to the sustainable development of the society as a manufacturer of LSI devices and modules. In the early 2000s, with the accelerated globalization of the domestic manufacturers, we expanded our business area to overseas. With our technological capabilities obtained in many years experience, we developed our company as a manufacturer of the world's highest level camera modules. As a result, we have been successfully developing the collaborative business relationship with leading companies in domestic and overseas market. The environment around our manufacturing industry has been facing difficulties, however, we believe that the importance of "Made in Japan" will be reaffirmed and the time will surely come. We will continue emphasizing "Quality First", and grow our reliability and company value with the diversity management. This aims to improve our competitiveness, achieve an ideal company, and toward mutual growth with all stakeholders. Our company, with all the employees, continue growing by valuing this business spirit, and we keep developing our business multidirectionally with willingness to take a challenge to new era and requirement.

Futoshi YUNOKI, President and CEO

Company Profile



Headquarters

- Company Name: S-TAKAYA ELECTRONICS INDUSTRY CO.,LTD.
- Establishment: August 15, 1979
- President / CEO: Futoshi YUNOKI
- Capital: JPY100 million
- Employee: 520 (As of March 2022)
- Sales Revenue: JPY13.78 billion (Fiscal year 2022)
- Product and Service: Semiconductor devices / module products and related equipment
- Location: 3121-1 Satomi, Satosho-cho, Asakuchi-gun, Okayama Prefecture



Related Company

- Company Name: SAIGON STEC CO.,LTD.
- Establishment: September 2007
- Capital: USD6,100,000 (Sharp Corporation 51%, S-TAKAYA ELECTRONICS INDUSTRY CO.,LTD. 49%)
- Product and Service: Camera module assembly / inspection
- Location: Binh Duong Province VSIP III Industrial Complex, Socialist Republic of Vietnam
- TEL: +84-274-363-5290
- FAX: +84-274-363-5295



History

1979

- 1979 Aug. Establishment, Capital JPY250 million yen
- 1980 Apr. Started IC/LSI package assembly & test
- 1981 Jun. Increased capital to JPY280 million yen
- Dec. Started Wafer test
- 1983 Mar. Completed 2nd building construction and started operation
- Apr. Started TCP process production
- 1984 Jun. Increased capital to JPY300 million
- 1985 Apr. Started COB process production
- 1988 May. Started Chip production
- 1989 May. Completed 3rd building construction and started operation

1989

1990

- 1991 Jan. Completed 4th building construction and started operation
- Apr. Certified RCJ, Registered electronic component certification
- 1992 Oct. Started production of CCD process
- 1993 Jul. Acquired ISO9001 certification
- 1996 Aug. Started CSP process production
- 1997 Feb. Started wafer polishing on back surface
- 1998 Nov. Started SOF production
- 1999 Sep. Acquired ISO14001 certification

1999

2000

- 2000 Jun. Increased capital to JPY310 million yen
- Aug. Completed 5th building construction and started operation
- 2001 Oct. Started camera module production
- 2002 Nov. Started IC card production
- 2003 May. Started Yakage factory operation
- 2006 Mar. Started One-Seg module production
- 2007 Sep. Started CSP production at wafer level
- 2008 Aug. SAIGON STEC (100% subsidiary) started operation
- Oct. Started Camera unit production
- 2009 Mar. Started solar module production
- Acquired ISO27001 certification

2009

2010

- 2012 Oct. Started touch panel module assembly production
- 2014 Jun. Started operation of solar power plant in Yakage
- 2015 May. Started operation of solar power plant at headquarters
- Sep. Ended production of IC card
- Oct. Acquired ISO / TS16949 certification
- 2018 May. Transferred 51% share of SAIGON STEC to SHARP Corporation
- 2020 Mar. Received all of SHARP TAKAYA share from SHARP Corporation
- Jun. Changed the capital to JPY100 million yen
- 2021 Mar. Integrated the Development Technology Center into head office and returned to TAKAYA Corporation
- Oct. Renamed the company name to "S-TAKAYA ELECTRONICS INDUSTRY CO.,LTD." from "SHARP TAKAYA ELECTRONICS INDUSTRY CO.,LTD."

