

Amazing TAIWAN

Everyday Excellence

Amazing TAIWAN 20 Cutting-Edge Brands Ushering in a Smart Life Revolution



TAIWAN EXCELLENCE
OFFICIAL MOOK
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20 Cutting-Edge Brands Ushering in a Smart Life Revolution

More than ever, Taiwan is drawing attention as a hub of innovation and gateway to technology across the globe.

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EXCELLENCE
OFFICIAL
M O O K

20 Cutting-Edge Brands Ushering in a Smart Life Revolution



Taiwan Excellence,

At home, the blinds might rise automatically when you wake up in the morning. Out for a leisurely drive with the family, you check for nearby open parking spaces, and reserve yourself a spot. While out for dinner, your smartphone notifies you that you have a visitor back at home, so you tap a button and talk with them then and there. You can even record what you ate that day, allowing nutritional data and health analysis to be shared with your family physician.

This may sound like something out of a science fiction movie, but in fact, it's already a reality in Taiwan today. IoT is making people's lives more convenient, often without them even noticing.

Everyday Excellence.

"Taiwan Excellence" believes that innovation makes a difference in everyone's life.

Excellence means creative designs that we use every day – on the street, at work, at home. It's the things we touch. It's the things that touch us. Excellence means the technology that makes us healthy, keeps us moving, and gives our children a green tomorrow. Excellence empowers people to dream amazing dreams, and live fuller lives.

It's the best made in Taiwan. It's the choice of innovation. For everyone. Everywhere. Every moment. Everyday.



Everyday Excellence

Amazing TAIWAN

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LEGEND

- 📍 ...Address
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- 🕒 ...Business Hours / Regular Business Holidays
- 💰 ...Admission Fee
- 🚗 ...Transportation Access
- 🌐 ...Website

※Regular business holidays exclude public holidays
and irregular holidays.



**TAIWAN
EXCELLENCE**

**OFFICIAL
MOOK**

Innovative Trends in Taiwan: 2019

Taiwanese industries are ever adapting and advancing at the speed of light. Made-in-Taiwan PCs have all but taken over the world, and in diverse fields from medicine to machinery, AI and IoT technology are ushering in a revolution. In Part I of this volume, you'll find data on the state of the industry, as well as interviews with executives and market research specialists to illustrate the complete picture of where the market stands, as well as how it got here. Hear straight from pioneers on the front lines of AI and IoT development, and you're sure to come away with a newfound appreciation for the passion and ambitions of the Taiwanese people.



Life Gets Smart!

Taiwanese Innovation to Unfold in 4 Fields

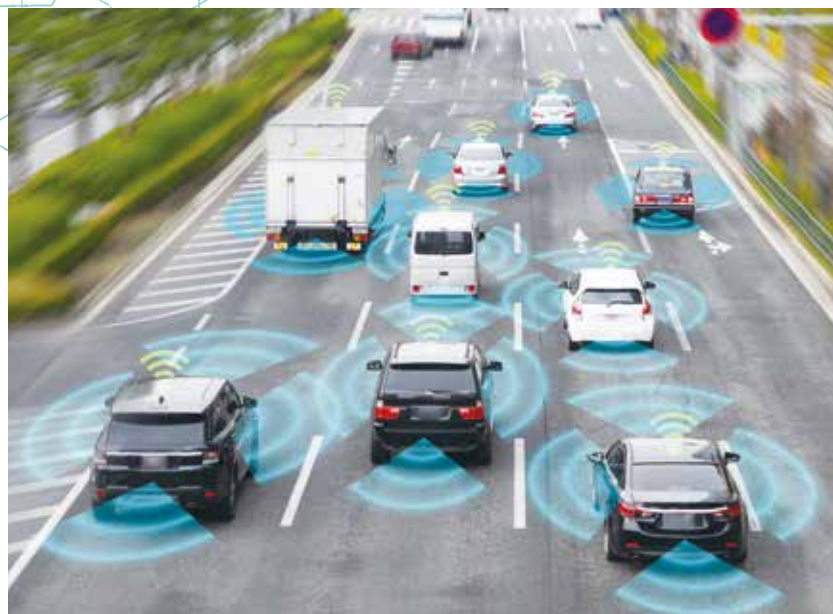
Four fields were held up as main growth areas at Computex 2019, but how will they change our daily lives?

5G

Major Revolutions in Self-Driving Cars, Telemedicine, and More

Communication speed ten times faster than before and super low latency provides greater stability and security, and larger numbers of simultaneous connections possible, fostering IoT proliferation and major changes to products and services in every field, including self-driving cars, smart factories and smart medical care, streaming services, and cloud games. In Taiwan, companies are forming collaborative tech relationships with makers around the world and looking to commercialize these possibilities from the year 2020.

With one-tenth the lag of 4G, 5G communication brings us one step closer to self-driving cars that are able to hit the brakes or steer out of danger faster than a human ever could.



Blockchain: It's Not Just for Finance Anymore

Blockchain is a revolutionary system where a process is managed jointly by all participants' computers. It has countless merits, notably its high degree of transparency paired with strong security. In addition to cryptocurrency, it has applications in a wide variety of areas including smart contracts, insurance, and medical care. The World Blockchain Summit held in Taipei in 2019 showed the world the potential of blockchain startups.



Recently, blockchain has begun to be adopted in the medical field for its high level of security, and in food management for its transparency and traceability.

Blockchain

IoT & AI

Daily Conveniences Evolve to Change Society

Able to control all manners of machinery, Advanced AI is a transformative tech that will kick off the next industrial revolution, and there's a global race for AI leadership. Machine learning using big data gathered from IoT devices is likely to be a powerful tool for AI development, which is another reason why IoT will be even more important going forward. In Taiwan, new and novel IoT devices are popping up constantly, changing people's daily lives. It's only a matter of time before they bring about powerful, society-changing AI.

Intelligent Meal Delivery Service Robot (Teco)

Service robots used in restaurants that can automatically deliver food and drinks to customers' tables. They're already being used in some Mos Burger locations in Taiwan.

→Page 36



Intelligent Marketing Display Fridge for Unmanned Store (LWO)

Detects customers via a camera and displays appropriate advertisements. It can remember customer info such as age and sex for marketing purposes.

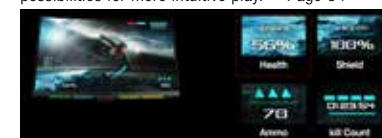


ROG Phone (ASUSTech Computer)

A smartphone from ASUS tailored to gamers. It's designed specifically for long play sessions. →Page 66

Curved Gaming Monitor (Micro-Star Int'l)

An MSI product that creates a powerful sense of immersion. The LED lights at the bottom of the monitor open up possibilities for more intuitive play. →Page 64



Gaming & XR

Evolving Digital Content Via High Functionality

As anyone can tell just by looking at the e-sports and gaming PC market, many interesting developments are happening in the world of PC gaming, AR, VR and MR. Novel hardware spurs new software developments that also contribute to the birth of yet newer hardware. The PC gaming world is in an ever-accelerating spiral of innovation. Taiwanese makers are a major player there, and they enjoy a tremendous reputation among end-users.

The world is anxiously awaiting the arrival of a highly-functional and affordable head-mounted display. One key point for their proliferation will be the participation of third parties.

In the age of IoT, Japan rides on the waves of a new era with a smarter Taiwan.

As IoT changes the industrial landscape, what strengths and specialties will Taiwan leverage to compete against the world? How will Japan work together with its neighbors? We talked to JETRO's Koji Kato who facilitates cooperation of Japan-Taiwan businesses.

Japan External Trade Organization (JETRO)
Director in Charge of Overseas Research Department

Koji Kato

Driving global expansion: the unique strengths of Taiwanese companies

Taiwanese companies have three major strengths. The first is speed. They make decisions, procure parts, and manufacture quickly. The second is horizontal, business-to-business cooperation. This allows for flexible production during busy seasons and development and planning capabilities that balance cost efficiency and quality.

Their third strength is that, when Japanese companies procure parts in Taiwan, about 80% of locally sourced parts are actually from local companies*1, a ratio higher than that of ASEAN countries, and many Taiwanese companies provide Japanese clients with stability, quality, price, and quick delivery they are looking for. This may be the fruit of a long technical cooperation and collaboration between Japanese and Taiwanese companies.

Furthermore, Taiwan's import customs clearance procedure is one of the fastest in Asia and Oceania. The necessary processes for both ocean and air freight customs clearance are speedy, so receivers do not feel like ports and airports make

them wait longer than necessary. Taiwan has a wealth of experience from its free trade policies and various efforts in promoting international trade.

A more versatile Taiwan: specializing not only in hardware, but software too

Until recently, Taiwan was known mostly for its skills in hardware, having long proved its prowess in the international arena. But now Taiwan is turning its attention to the fusion of hardware and software. The people are highly knowledgeable, and it is not uncommon to find a talented software engineer from abroad when visiting the Hsinchu Science Park, an IT hub. Not complacent with that, the government launched its industrial innovation plan, the 5+2 Major Innovative Industries Policy, aiming to turn Taiwan into Asia's Silicon Valley and a leader in smart machinery. This shows its determination to forge ahead in IoT, a field that requires both hardware and software development capabilities.

The government and citizens' enthusiasm toward research and development can even be confirmed in numbers. According

Koji Kato
Joined JETRO in 1987. Served in the Japan-Taiwan Exchange Association (1990-93), JETRO's Dalian Office (1999-2003), and as Director of the JETRO Overseas Research Department, China and North Asia Division (2003-05), before assuming his current post.



to a survey by OECD, Taiwan's ratio of R&D expenses to GDP (3.31%) is higher than Japan's*2. Its number of researchers per 1,000 employed people is 13.25 in Taiwan, which ranks in the top 5 worldwide*3.

Even the West has recognized Taiwan's rich developmental environment. In announcing the establishment of a new office park just outside Taipei, Google shared its plan to develop AI in Taiwan and position the country as the largest R&D base in Asia. Microsoft also announced the creation of an AI R&D center here.

Taiwan's IoT market size has surpassed 1 trillion TWD. How should Japan collaborate with Taiwan?

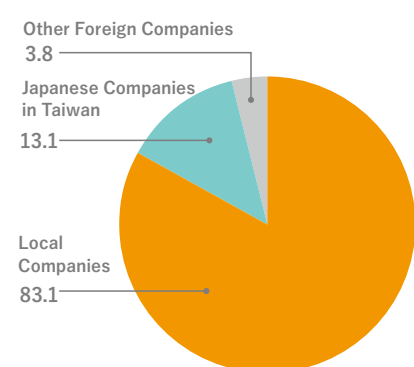
The Taiwanese government is proactively supporting start-up companies. Its National Development Fund launched the Business Angel Investment Program to improve the angel investment environment for startups, and it has invested 180 million TWD in 11 projects so far. The government also has tax incentives in place for angel investors. They will deduct up to 3 million TWD for investors who support startups less than

2 years old. The tax incentives were originally intended to last until the end of 2019, but are currently under consideration for a ten-year extension. It seems like the government is looking at R&D in the long term.

These efforts have already borne fruit. The output of Taiwan's IoT industry has grown by approximately 20% for two consecutive years and now exceeds 1 trillion TWD (\$39.1 billion USD)*4.

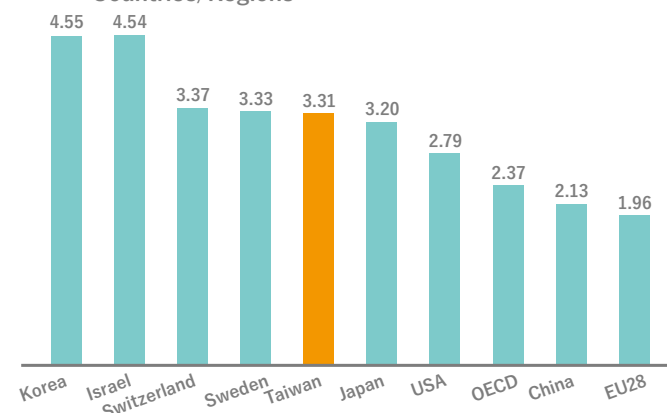
Taiwan knows its strengths and how to utilize them to the fullest in both hardware and software. Offering stable product quality, swift delivery, affordable prices, and superb developmental capabilities, it is an extremely attractive business partner. Japan, too, has its own merits in Taiwan's eyes: a market of 100 million people and a track record of successful market development and brand power in ASEAN countries like Thailand. Of course, there are also risks to consider, like differences in contracts, labor laws, business practices, cultures, and languages. However, if the two countries take their time to prepare a business plan, Japan and Taiwan can each leverage their own areas of expertise and become powerful partners and pioneers in the age of IoT.

※1 Part Procurement of Japanese Companies in Taiwan (Breakdown of Local Suppliers) (%)



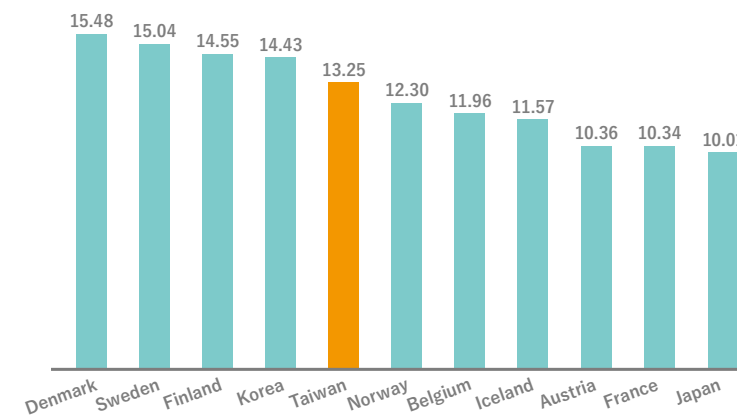
Source: JETRO (December 2018), 2018 JETRO Survey on Business Conditions of Japanese Companies in Asia and Oceania. A breakdown of 35 Japanese-affiliated companies (manufacturers) in Taiwan who answered that they would procure parts locally.

※2 R&D Expenses to GDP Ratio in Major Countries/Regions (%)



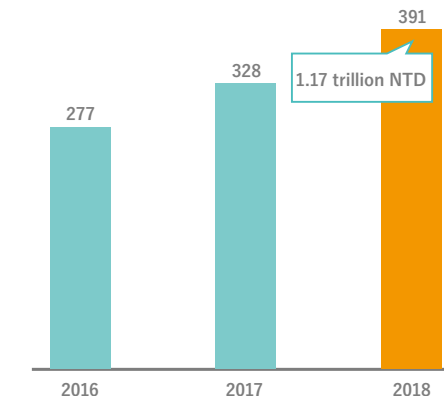
Source: OECD (February 2019), Main Science and Technology Indicators: Gross Domestic Spending on R&D. Data from 2017 (Switzerland's data from 2015)

※3 Researchers Per 1,000 Employed (Top 11 Areas) (person)



Source: OECD (February 2019), Main Science and Technology Indicators: Researchers Per 1000 Employed. Data from 2017 (Iceland and Australia's data from 2016)

※4 Taiwan's IoT Industry (Output) (billion)



Source: Executive Yuan (February 2019), Asian Silicon Valley Development Plan: Progress and Results.

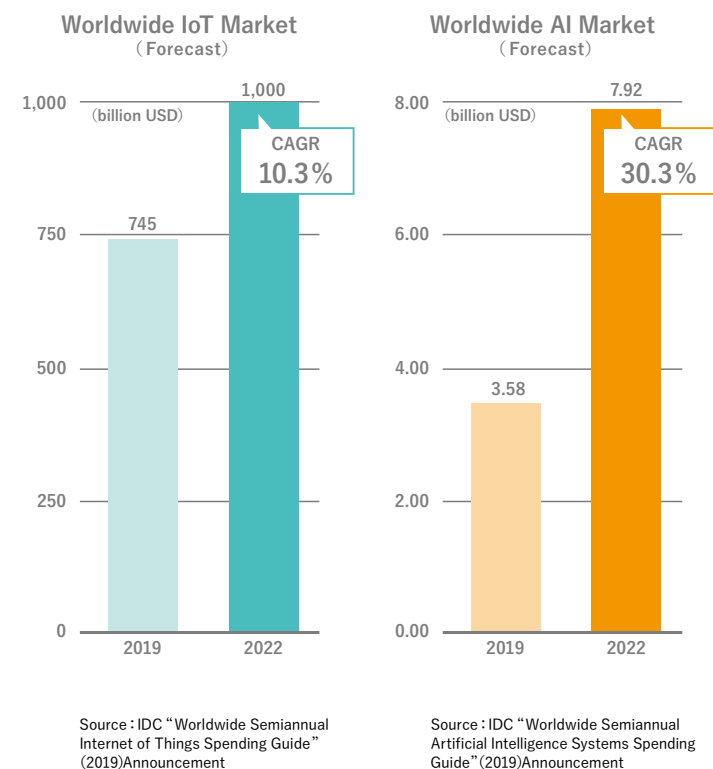
AI&IoT Trends Enabling Smart Life

It's been a few years since the manufacturing industry began to steer towards AI and IoT, and in Taiwan the fruits of that research and development have started to reach consumers. This is particularly true in smart factories, smart medical care, and smart education, and here we'll look at some examples of each.

Strong AI and IoT increase productivity and energy efficiency wherever they are used, changing not only industry and daily living, but ultimately society and culture as well. Think of how the spread of smart phones and social media has changed how we work and live. We're at the dawn of a 4th industrial revolution, and many experts predict it's about to enter full swing. If we think of it in terms of the Chinese opera "Legend of the White Snake", popular in Taiwan as well, the white snake, having assumed the form of a beautiful woman, is just about to meet the young man by the lake. From here, the real story begins.

The tech-focused market intelligence firm IDC predicts that the IoT market will reach 1 trillion USD by 2022 while the AI market will reach 79.2 billion USD in the same year.

The world is clamoring for AI and IoT's expansion. Amid all that, Taiwan, with its mature PC and electronics industry and even labor distribution among small and agile businesses, hopes to become a prime incubator.



Taiwan's White-Hot Startups

Taiwan has had exchanges with various cultures throughout its history, and in modern times it has flourished through proactive cooperation with foreign industries. Its outward-looking spirit is so strong you might say overseas expansion is in Taiwan's DNA. If diversity is the well-spring of innovation, no wonder Taiwan is a major center of startup activity.

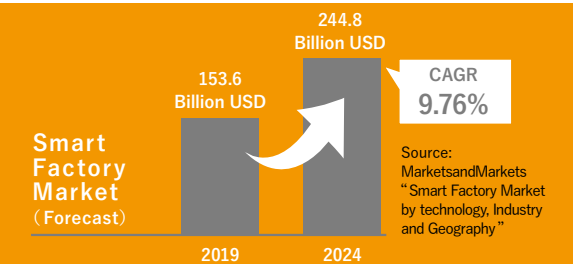
The government and private sector have come together to put on the venture business trade fair InnoVex

each year since 2016. Furthermore, in September of 2018, a shared facility for venture companies called Startup Terrace was established in New Taipei City. Around the same time at GEC + Taipei, an international conference for entrepreneurs and investors, Taiwan signed the gAsia Pass, the world's first startup resource sharing initiative for APAC entrepreneurs, signaling their support for startups. Truly all eyes are on the startup scene in Taiwan.



Startup Terrace
Facilities include offices, co-working spaces, and meeting rooms in addition to living spaces for startup founders.

Smart Factories



A Closer Look at Smart Factories: A Global Phenomenon

Put simply a smart factory is one that has been enhanced with IoT. First every machine and device within the factory is outfitted with communications and connected to a network. This makes real time monitoring of operation data possible. The data gathered can be analyzed and used to make each machine more efficient, or to detect when components have become fatigued, increasing both productivity and safety. After factory-wide implementation, ultimately you can link up multiple factories to one network and increase productivity for an entire company.

Germany was an early adopter of the smart factory set-up known as Industry 4.0, and since 2011 they have revolutionized their manufacturing nation-wide. France, China and Japan have all taken cues from Germany as well and in Taiwan the government has established their own Industry 4.0 plan.

A New Business Exporting Smart Factories

In Taiwan every company with a production base there has

been working to convert their factories to IoT, but one of the first to do so was Advantech, which made a name for itself as the top industrial computer manufacturer in the world.

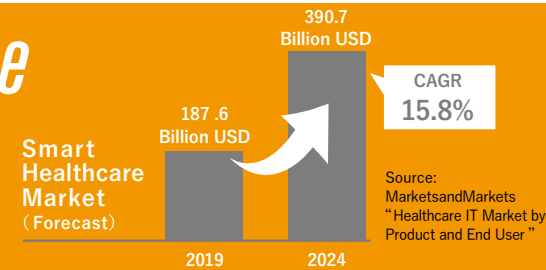
When Advantech converted their own factories to smart factories, they set up display arrays in their situation room. Data regarding operational status is displayed on the screen, and the factory head can view that information in real-time as they give their directives. But Advantech didn't stop with its

own factories, it packaged its smart factory knowhow into a service and offered to other companies. In other words, a manufacturing company made the drastic change to become an IoT company offering both hardware and software. In Taiwan, the possibilities of the smart movement are truly vast.



IoT Wireless Sensor Node WISE-4210
(Advantech)
An access point that uses LPWAN wireless communications. LPWAN allows for low energy cost but long-distance communication, perfect for IoT. Winner of a 2019 Taiwan Excellence Award.

Smart Medical Care



Smart flowers bloom in the garden of healthcare

The IoT integration of hospital medical devices and home healthcare products is a field with great projected growth. The market is estimated to grow to \$390.7 billion USD by 2024, and Taiwan has the potential to be a key player in this field.

Taiwanese OEMs have accumulated the skills and funds to create medical devices and healthcare products such as blood sugar level monitors, blood pressure meters, and large-scale testing equipment. Recently, IoT integration of products is progressing rapidly, and some services are already in practical use. Leading examples of this include RIGHTEST CARE Total Solution, a smart medical service that connects doctors and patients via the cloud, and AmCad, software that utilizes AI and image recognition to provide thyroid tumor diagnosis support. Because big data can be gathered through IoT, medical device makers the world over are eager for integration.



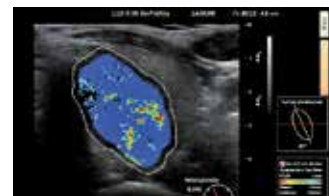
Rightest CARE Total Solution
(Bionime Corporation)
A diabetes care system that connects doctors and patients via a dedicated IoT device and the cloud. It allows one to inexpensively and accurately manage their blood sugar. →Page 48

Standing out to users is critical — Taiwanese makers take a unique approach

Though Taiwan takes a proactive stance on smart integration via AI, some makers err on the side of caution when it comes to the easy Internet connections of precise medical devices in an effort to protect patient privacy and security.

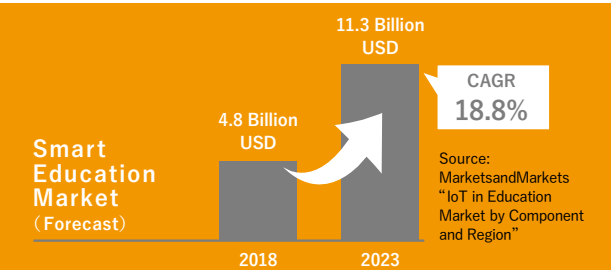
At AmCad BioMed Corporation, creators of thyroid tumor diagnosis support software, privacy standards are customized depending on the exporting country, and some products cannot be integrated with the Internet. In addition, at the "Living 3.0" smart life exhibition hall (see page 28) where visitors can test various nursing care products, you can see a nursing room that did away with web cameras (which can give patients the feeling that they are being watched) in favor of privacy-sensitive pressure sensors.

Taiwanese companies exist for the sake of their end users. One can only wonder what unique and innovative smart medical products they will come up with next.



AmCAD-UT
(AmCad BioMed Corporation)
Diagnostic assistance software for the early detection of thyroid tumors. It enhances visualization of a tumor. →Page 23

Smart Education



Combining education and IT unlocks a world of possibilities in the classroom

The market for smart education is estimated to surpass \$11.3 billion USD by 2023. Many countries are now focusing their attention on this new type of IT-integrated education called EdTech*.

Strides toward a more IT-integrated education are being made across Japan. In 2020, learning programming will be mandatory in primary schools. At the same time, only 27% of Japanese public primary and junior high schools had PCs linked to interactive whiteboards as of 2017. If they desire higher performance, service, safety, and reliability at an affordable price, they may want to consider collaborating with Taiwan.

Taiwan's latest IoT classrooms utilize large, 4K touch panel interactive whiteboards with built-in speakers. Classrooms have storage boxes to charge students' tablets and multiple cameras for group projects. All devices are safely connected to the internet.



Interactive Flat Panel
(AVer Information)
This interactive whiteboard is like an enlarged, high-performance tablet. Teachers can give interactive lessons while using education applications. →Page 58

Video conference system makers help shape Taiwanese IoT schools

AVer Information, a leading video conferencing system maker, provided the technology for these IoT classrooms.

Some Taiwanese schools are wholly IoT-integrated, with an IP decoder integrated with every digital device placed in each classroom. These decoders send the information to an external control center where all the data is managed. The company that facilitates the creation of smart schools like these is BXB Electronics, another video conferencing system maker. They've introduced the system into approximately 60 schools in Taiwan, and have received inquiries from countries such as Hong Kong and Dubai.

There is still room for growth in smart education. Though started by companies proficient in imaging and audio transmission, it would not be surprising to see more Japanese and Taiwanese companies collaborating to make further advances in the classroom.



Smart Campus Solution
(BXB Electronics)
A system that allows collective management via a control center that is connected to all digital devices in the school. →Page 56

Advantech's Strategy for Promoting Smart Factories in Japan

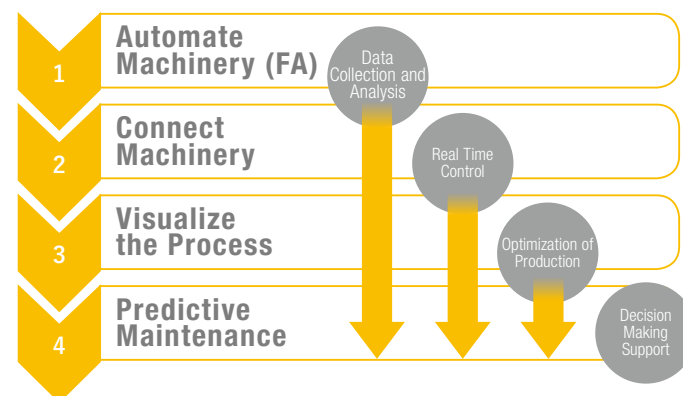
Advantech is a top company in the industrial PC world. With Industry 4.0 well on its way they're offering comprehensive packages for smart factories and have taken big steps towards breaking into the Japanese market. Advantech has invested in two Japanese companies in recent years, forming a capital alliance with Nippon RAD in 2018, and acquiring Fukuoka Prefecture's Omron in 2019. The aim of their M&A of Japanese companies is to first promote factory automation, then pursue a platform strategy of expanding into smart factories.

President of Embedded IoT Group, Advantech

Miller Chang

Smart Factories According to Advantech

In a factory that has undergone FA, since data can be collected, analyzed, and visualized without delay, real time control is possible. This helps avoid waste and malfunction and allows factory runners to make better decisions.



Entering the Kyushu FA Market with a New Base in Fukuoka

Advantech has grown over the years, working with printed circuit boards, embedded systems and EMS/ODM. We've worked with a wide range of products. Kiosk terminals, ATMs, POS registers, controllers for x-ray machines, Applied Computing used in hospitals for nurses making their rounds, sensor network terminals, and electronic price tags just to name a few.

Currently about 80% of our sales come from our branded products, and 20% comes from our EMS/ODM services. For the latter we have big names like GE Healthcare in America and Mindray in China as clients.

Advantech has an office in Tokyo, and for the last 20 years we've been interacting with our Japanese customers from that Tokyo perspective. But Japan is a big country. There are a lot of manufacturing sites that can't easily be visited from Tokyo, and it's been a barrier for us in pursuing those FA clients that we really want. But that's been greatly improved by acquiring an office in Fukuoka. We acquired Omron in Fukuoka and changed their name to Advantech Technologies Japan in order to establish Fukuoka as our second Japanese office and pursue FA clients.

There are a tremendous number of potential customers in the Kyushu region. Staff from our Fukuoka office can easily

make frequent visits to Yahata Steel Works, car factories like Daihatsu, Toyota and Nissan, or semiconductor factories like Toshiba and Sony Semiconductor. Additionally, all those larger factories have lots of suppliers nearby, and naturally we're looking to work with them as well.

Friendly FA and Smart Factory Experts Supporting Japanese Industry from the Background

There are certainly some in Japan who will say, "Sure, Advantech has produced results in IPC manufacturing, but when it gets right down to it, are Japanese companies going to be proactive about partnering with a Taiwanese company?" I suppose the notion is that Japanese manufacturing gets its confidence from daily Kaizen improvements. That it doesn't want to rely on something external, and even if it has to it will go to other domestic companies, or US or European companies first.

But let's really think about it in terms of specifics. Let's say a company in Kyushu is supplying temperature control equipment to a cast metal manufacturer. No doubt about it, when it comes to the mechanical side of things, this company is professional. But are they knowledgeable about new technologies that support smart factory upgrades or FA the way we are? Do they know about protocol stacks for sensor networks, or the virtual private clouds that Microsoft offers? Generally

Advantech's executives don't use any paper materials when meeting about a factory's productivity levels. This is because the displays in their situation room show productivity and profitability essentially in real time. On the left are video relays of each production line, in the center you have various productivity indices like equipment and personnel levels, and to the right is an inventory display for components and materials.



Miller Chang
Born in 1970. Received an EMBA from the National Taiwan University of Science and Technology. After spending 11 years at PC firmware (BIOS) giant Phoenix Technologies, he joined Advantech in 2007.

speaking, they probably don't.

And that's where we can step in. We can work closely with and provide EMS/ODM services to the temperature control equipment maker. We can supply the temperature control equipment maker with devices that ensure compatibility with those new technologies. The temperature control equipment maker will be able to provide a whole new dimension of value to the cast metal maker, and that will increase their profits. So, I think us being a company versed in that new technology, and close by, will keep us at the forefront of other companies' minds.

Smart Factories Create Smart Fiduciary Relationships

At Advantech we've been focused on increasing the profitability of FA. And for us FA, automating machinery, is the first step in the smart factory process. The next step is connecting these automated devices then visualizing the manufacturing process, and this ultimately leads to the goal of predictive maintenance. Automated machines are equipped with all manner of sensors, and these sensors give administrators a real time picture of each machine's operating condition. The sensors can alert them if there are any abnormalities of course, but they can also predict each component's level of metal fatigue and recommend the replacement of worn parts before they break.

Have a look at the display array in our situation room. (top right image). As you can see this is already a smart factory. Advantech's team of executives like our Chairman KC Liu and Executive Director of Board Chaney Ho can look at these displays and give us directives to increase profits. They don't need to look at any specially prepared paper documents. Going forward we'd like to sell versions of this factory profit monitoring system tailored to our customers' needs.

And this monitoring system isn't just a black box. If a business partner wants to see it, depending on conditions we're happy to show it to them. Because of that we don't run into situations where business partners find production numbers higher than what they expected, or lower, and then that ends up influencing our negotiations. In the EMS/ODM of industrial devices business, you can't create a relationship based on deception. Both we and the client can find a fair standard of profit amid finite production. And that's the exact sort of relationship we want to make with companies in Japan, the third largest market in the world.

Advantech Co., Ltd.

Chairman: KC Liu

Established: 1981

Industry: Design, manufacture and sale of industrial PCs

Employees: 8000 (2019)

<https://www.advantech.com>



Mechanical Eyes for Machines: 3D Image Recognition Tech from Taiwan Engineers

Sophisticated self-driving cars and delivery robots need “mechanical eyes” in order to recognize cars or other obstacles in front of them. In practical terms this means using 3D cameras and 3D image recognition to allow machines to judge the distance between themselves and other objects (in other words, the depth of the image). Companies all over the world are honing their research to gain an early share of the market, and in Taiwan the leading developer is LIPS founded in 2013. Their LIPSedge DL 3D camera as well as their 3D image recognition middleware are already on sale in Japan to rave reviews. We asked CEO Luke Liu what he considers his company’s strengths.

LIPS Corporation
CEO

Luke Liu



Luke Liu
Had Hewlett Packard as a client while at Foxconn, and after working with LCD panels and touch sensors at Wintek, he founded LIPS in 2013.

Top-Class Taiwanese Engineers: A Powerful Asset

I used to work at Foxconn Technology Group, developing cameras for Hewlett Packard. The experience made me realize how much value image recognition middleware can add to a camera, and it’s what made me decide to start my own company.

In Taiwan the electronics industry is super-concentrated, and there are tons of great engineers. So, when we were building our team, we were able to select the best of the best.

The first result of that was the AC770 face recognition development kit. It’s a combination of a stereo camera depth sensor from Intel with middleware and additional hardware developed by our company. The face recognition system also employs deep learning. When tested the AC770 was able to correctly recognize a face 99.6% of the time.

The engineers we’ve gathered together at LIPS all have experience on the cutting edge of technology, and they’ve come from storied companies like ASUSTeK, Compal, HTC, and the Taiwan office of Europe’s electronic tech research institute IMEC. We also have a lot of good connections within the EMS/ODM industries as well, so we’re keenly aware of our customers’ needs. I think our top-class Taiwanese tech know-how, and our ability to ideate and develop products that fit the needs of a wide customer base, set LIPS apart from the rest.



LIPSedge DL

LIPSedge DL is a 3D camera with a built in ToF sensor. It can output both 30FPS QVGA with image depth data for each pixel attached and 30FPS full HD. It can measure depths of 0.2 to 1.2 meters or 1 to 4 meters. The center wavelength of the infrared light projected on subjects is 850nm.

LIPS Corporation

CEO: Luke Liu
Established: 2013
Industry: Sales of design resources for image recognition devices.
Employees: 150 (2019)
<https://www.lips-hci.com/>



Partnerships between Private Enterprise and Academia Foster Development of Smart Medical Devices

Electronics aren’t the only thing being manufactured in Taiwan. In the medical device and healthcare fields as well, companies have gained technology and capital via OEM and gone on to roll out their own in-house brands. Spurred on by government backing, recent years have seen the birth of several startups from industry-academia partnerships. AmCad BioMed Corporation, a smart medical device maker headquartered in Taipei, is one such company born out of that uniquely Taiwanese innovative environment. They’re at the forefront of the current tide of smart tech, bioresearch and AI development, and have released several revolutionary examination devices.

AmCad BioMed Corporation
President

Yili Lee



Yili Lee
Received an MBA from Rutgers. Joined AmCad BioMed after working in various financial institutions in Europe and the US. Currently also serves as Deputy Chairman of Maywufa Healthcare Group.

Making Traditional Medical Devices (Hardware) Smart with the Power of Software

Here at AmCad BioMed Corporation (AmCad) we’ve just celebrated our tenth year since our founding. In 2017, we released thyroid ultrasound imaging detection software “AmCAD-UT” named after our company.

Put simply, AmCAD-UT is software that adds visualization to enhance black and white thyroid ultrasound images. Tumors will be colored to stand out, making it easier for doctors to spot them in the images. The visualization is added using our own specially developed AI and image analysis technology. Taking hardware like these existing medical devices and adding smart features to them by implementing new software is part of our company’s mission.

Our newest product “AmCAD-UO” is for detecting obstructive sleep apnea. Via our proprietary detection method that utilizes laser-guided positioning, automated ultrasound transducer scanning and AI image analysis, an exam that would normally take almost a full night can be finished in 10 minutes. We were able to increase the accuracy of detection while also reducing the burden on patients and doctors and reducing costs.

Doctors, Engineers, Industry and Government Tag-Team R&D

In Taiwan development of smart medical devices, hardware

and software, is very active. IoT can lead to privacy issues with sharing patients’ medical data, so we’ve decided to focus on using AI to help with medical exams.

I think this sort of research and development is only possible because of the high level of both the doctors and engineers, and the support system created by industry and government.

Taiwan’s elite students have always wanted to become doctors, and these doctors have formed a medical association that is open-minded and technologically savvy. They’re proactive about doing clinical studies on cutting-edge treatments. And it goes without saying that our engineers are world-class as well. Then you add in the Taiwanese government’s support for the development of smart devices. The government gives funding to universities, which supports research and helps drive industry-academia partnerships.

Our own company has a big sponsor in the Maywufa Healthcare Group. The idea for AmCAD-UT was brought to the Maywufa Healthcare Group by Taiwan University, and our company was created as a startup to realize the product. Maywufa is an organization of various cosmetics related companies that has branched out into pharmaceuticals and then medical devices in recent decades. A big feature of Taiwanese industry is that as companies we’re always looking to reach out into neighboring fields. I hope that spirit continues into the next generation as well.



AmCAD-UO

AmCAD-UO is a device used to detect obstructive sleep apnea. It examines patients by measuring and analyzing their pharyngeal airway in two patterns, normal breathing and with their noses held closed (Müller Maneuver). The examination only takes 10 minutes, making it a dramatic leap forward from ordinary devices that require essentially a full night of testing.

AmCad BioMed Corporation

Chair: C.C. Lee
Established: 2008
Industry: R&D, manufacture and sales of innovative medical devices.
Employees: 35 (2019)
<http://www.amcad.com.tw>



✧ Get Hands-On With Smart Life! ✧

Intelligent Living Space (Living 3.0)

✧ Experience the latest smart life innovations ✧



A short 15-minute drive from central Taipei, a stone's throw from the gentle waters of the Jingmei River, you'll find Living 3.0, a popular smart life exhibition hall that draws 15,000 visitors a year.

Particularly popular among tourists, the hall features twenty areas—entrance hall, living room, bedroom, office, meeting room, and so forth—each equipped with the latest smart technology. With the assistance of a guide, visitors can get hands-on and enjoy everything from IoT post boxes that can be opened and closed via smartphone, VR

systems for testing furniture layouts, and much, much more.

Curator WenChou Chen envisioned the hall as a place where three-generation families could live together, and true to this concept, it also features a wide range of nursing care products, including unique items like a door-equipped bathtub.

"A number of the items on display at Living 3.0 are actually available for purchase. The smart life era is already upon us--something I think visitors will be able to feel and experience for themselves if they visit us." (Curator Chen)

1 The smart living room area. 2 The smart bathroom area, complete with door-equipped bathtub. 3 A bedroom equipped with a person's presence and movement to detect when the resident has fallen and cannot move. 4 A table that can monitor and display energy use. 5 A glass wall that can project information on air temperature and humidity.

Intelligent Living Space (Living 3.0)

📍 No. 102, Jingfu Street, Wenshan District, Taipei City
☎ +886-2-2930-0575
🕒 Tue. to Sat. 10:00~16:30 / Closed on Sun. & Mon. Reservations required for all days except Wed. (free viewing day.)
🚶 5 minutes on foot from Exit 1 of Wanlong Station on the Taipei Metro Green Line.
<http://www.living3.org.tw/>

Smart life isn't just something that awaits us far in the future—it's actually already part of our reality! At Living 3.0, you can get up close and personal with some of Taiwan's hottest smart technologies.

Sha Yang Ye Robot Wonderland, Pavilion of Future

✧ A Robot Paradise for the Entire Family to Enjoy ✧



In the city of Taoyuan, home to many industrial parks, you'll find the robot factory of Sha Yang Ye, a venerable motor manufacturer. It was built by the company's founder and CEO, F.C. Tsai, as an educational facility for the younger generation.

Visit the fourth floor of the factory, and you'll be greeted by a dazzling array of robots, from dancing robots to fighting robots and more. And they're not just for looking—some are even available to touch or control. The smart house simulation area offers visitors an interactive

experience with cutting-edge smart appliances and companion robots. There are also many exhibits designed for parents and children to enjoy, like a do-it-yourself corner where you can assemble your own robot.

If you request it when you make your reservation, you can visit the special exhibit room on the first floor to learn all about Sha Yang Ye's history and products, and see the company's many Taiwan Excellence Award-winning products, including a high-precision, micro-sized motor.

1 Control fighting robots that took part in a Japanese robot competition and battle your foes! 2 An exhibit with dancing robots representing the Taoist god Nezha and a lion. 3 There are also an exhibit showing robots from the inside. 4 A conveyance robot that can be seen in the first floor exhibit hall. 5 A vegetable growing room powered by LED lights. The vegetables grown here can be purchased on the premises.

Sha Yang Ye Robot Wonderland, Pavilion of Future

📍 No. 461, Taoyuan Road, Taoyuan District, Taoyuan City
☎ +886-3-3623452
🕒 Tue. to Fri. 9:00~17:00, Sat. & Sun. 9:00~17:30 / Closed on Mon.
🚶 The pavilion is about a 40-minute drive from central Taipei.
<https://robot.shayangye.com/>



What is the Taiwan

The Taiwan Excellence Awards are bestowed upon high quality and innovative products by the Ministry of Economic Affairs (MOEA), R.O.C. You can see award-winning products at

POINT
1

Prestigious awards given to the best Taiwanese products

The Taiwan Excellence Awards are bestowed on products selected through a strict examination process conducted every year by the Ministry of Economic Affairs (MOEA), R.O.C. They are intended to enhance the image of and promote Taiwanese products around the world. The first Taiwan Excellence Awards ceremony was held in 1993, and the awards celebrated their 27th anniversary in December 9, 2018.

Among all the products that claim the

Taiwan Excellence Award, those deemed the most innovative receive the Gold Award—the highest level—with those that fall just short of this standard receiving the Silver Award. As is evident by the word “excellence,” this prestigious distinction is only bestowed on products that stand out in all aspects, including R&D, design, quality, and marketing. If a product wins any of the awards, it can use the Taiwan Excellence symbol for all its international marketing and promotion.

POINT
2

The Taiwan Excellence trademark is recognized by 102 countries



From the left, the Taiwan Excellence Award, the Taiwan Excellence Gold Award, and the Taiwan Excellence Silver Award.



POINT
3

A number of events are held to promote Taiwan Excellence products around the world

To promote awareness of Taiwanese products domestically and globally, events are held regularly in various countries, including the United States, Japan, Indonesia, Vietnam, and elsewhere. At these venues, you can experience Taiwan Excellence-awarded products first-hand, while receiving explanations from event staff.

In addition to exhibition events, many events such as marathons and e-sports tournaments are also held to promote the Taiwan Excellence Award and Taiwanese products both within the nation and abroad.

Excellence Award?

events in various countries and at the Taiwan Excellence Pavilion (see p. 26), so be sure to check them out!

Brand Connotation



Items of Selection



Process



Operating Authorities

Organized by the Bureau of Foreign Trade (BOFT), MOEA



The Bureau of Foreign Trade (BOFT) under the Ministry of Economic Affairs (MOEA), R.O.C. is responsible for implementing policies and regulations governing foreign trade and economic cooperation. Established in January 1969, the BOFT's role and position have been adjusted regularly to meet the needs of the ever-changing international economic and trade environments. The BOFT has been guiding and working with the Taiwan External Trade Development Council (TAITRA) in numerous promotional trade projects and activities both internationally and domestically. Having worked closely with TAITRA for many decades, the BOFT continues to commission TAITRA for various critical government projects relating to business, trade and investment, while promoting Taiwan internationally.

Implemented by the Taiwan External Trade Development Council (TAITRA)



Founded in 1970 to help promote foreign trade, the Taiwan External Trade Development Council (TAITRA) is the foremost non-profit, semi-governmental trade promotion organization in Taiwan. Jointly sponsored by the government, industry associations, and several commercial organizations, TAITRA assists Taiwanese businesses and manufacturers with reinforcing their international competitiveness and coping with the challenges they face in foreign markets. TAITRA boasts a well-coordinated trade promotion and information network of over 1,200 international marketing specialists stationed throughout its Taipei headquarters and 60 overseas offices worldwide. Together with its sister organizations, the Taiwan Trade Center (TTC) and the Taipei World Trade Center (TWTC), TAITRA has created a wealth of trade opportunities through effective promotion strategies.



About 50 products are displayed in this one room.

The concept for the 2019 exhibition is outer space

In this exhibition room, designed around the theme of a spaceship's cabin, you'll find PC accessories, e-bikes, medical care products, home appliances and applications, and more—with every product, of course, having been the recipient of the prestigious Taiwan Excellence Award. As every product has been recognized for its groundbreaking accomplishments in all facets including quality, R&D, marketing, and design, you can be sure that each one is a truly revolutionary specimen that will stimulate your curiosity. Located on the third floor of the Taipei World Trade Center's Nangang Exhibition Hall, a centerpiece of the city of Taipei, it also plays host to numerous major events.

Encounter the Latest and Greatest Taiwanese Innovations: The Taiwan Excellence Pavilion

Any visitor looking to see Taiwanese innovations of surpassing creativity and quality need look no further than the Taiwanese Excellence Pavilion. Here, you can find over fifty regular exhibits featuring IoT and smart products of all varieties that are sure to make you stop in your tracks with amazement.

2019 welcomes a host of Taiwan Excellence Award-winning products

The exhibits all feature explanations in both English and Chinese. Should you want to learn more about any individual product, one of the staff members regularly standing by can teach you all you want to know. Every year, approximately 500 products receive the Taiwan Excellence Award, meaning that the exhibits here represent but a fraction of them. With the displays rotating every two or three months, you'll see something new and groundbreaking no matter how many times you visit.



1



2



3

1 A knowledgeable and friendly staff member explains the features of this carbon-framed road bike. 2 A robot designed for underwater exploration and rescue operations. 3 The medical care products corner, featuring a bed to help patients turn over, among other products.

Get hands-on with cutting-edge technology!

The exhibited products at the Taiwan Excellence Pavilion aren't ensconced in glass cases—you can touch and use them yourself. Play virtual reality games, sing with a high-spec microphone, and more. The venue even encourages visitors to take photos and share them via social media. You're sure to find a product that especially catches your eye, like this IoT-equipped refrigerator which automatically detects the age and gender of the person standing before it and displays advertisements accordingly. (Photo #3)



1



2



3

1 Visitors really get into this VR-based rhythm game. 2 An open-type PC case which shows the inner workings of a computer while shielding them with reinforced glass. 3 This IoT-equipped refrigerator features a camera which can detect anyone who approaches it. The front door can display digital signage.



TAIWAN EXCELLENCE PAVILION

📍 3rd Floor, Taipei Nangang Exhibition Center, Hall 1, Jingmao 2nd Road, Nangang District, Taipei City.
☎ +886-2-2785-0605
🕒 Mon. to Fri. 10:00-18:00 / Closed on weekends & holidays (hours may vary during events.)
📍 Adjacent to Exit 1 of Taipei Metro Nangang Exhibition Center station.
<https://www.taiwanexcellence.org/tw/pavilion>

20 Brands Making Smart Life a Reality

Part I of this volume introduced the remarkable, revolutionary innovations that are being realized in Taiwan. In Part II, we'll take a deep dive into twenty smart life-focused products and services selected from among the winners of the 2019 Taiwan Excellence Awards.

Organized into six categories—Food, Wearing, Living, Transportation, Education, and Fun—these singularly innovative and revolutionary products represent the pinnacle of Taiwan Excellence.

→P.30

→P.38

→P.44

→P.50

→P.56

→P.60

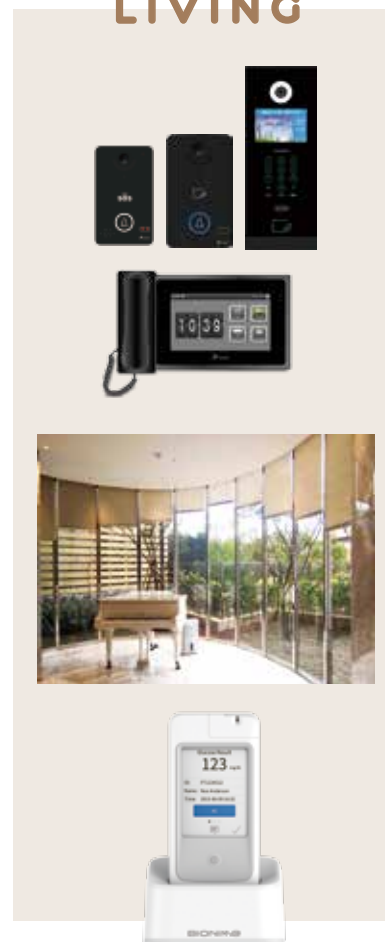
FOOD



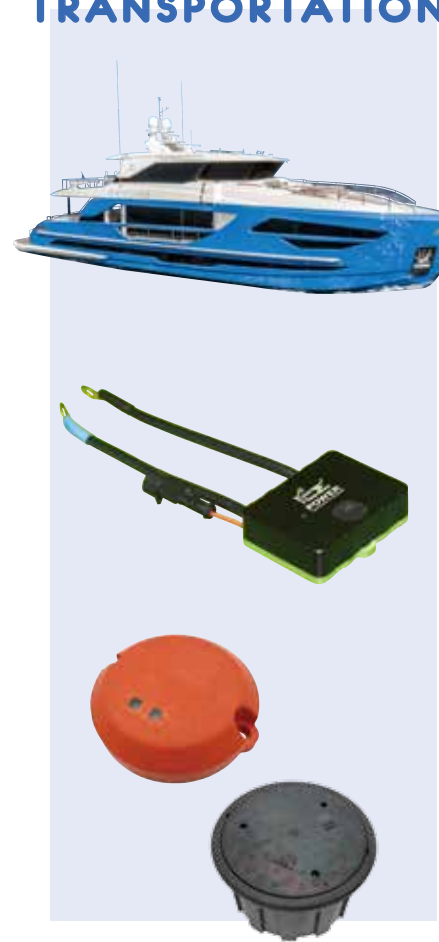
WEARING



LIVING



TRANSPORTATION



EDUCATION



FUN



The Tatung mascot "Tatung Boy" debuted in 1969. Many commemorative models have been produced and are popular with collectors.



Taiwan's Beloved TATUNG Multi-functional Cooker Levels Up with New Heat Settings

Electric Multi-Cooker - Tatung 100th Anniversary Cooker

TATUNG Multi-functional Cookers have been one of Taiwan's most beloved appliances since going on sale in 1960. And in truth its basic functions haven't changed all that much. Users simply pour a cup of water in between the inner and outer pots and switch it on. The internal heater creates steam, which heats the food. As the water evaporates the temperature of the pot increases, until the heater automatically switches into warming mode.

TATUNG Multi-functional Cookers have steady sales of 400,000 units a year, but why are they so beloved? Tatung Co. CEO Chi Chang says it's because they're easy to use, and reliable.

"Modern major appliances have plenty of features, but how many of them actually get used day to day? TATUNG Multi-functional Cookers just have one switch, so they don't confuse users." They're also so well known for reliability that "we've had complaints from customers who are disappointed when their cooker starts to malfunction after 10 years."

For the 100th Anniversary Cooker, celebrating 100 years since the company's founding, they've decided to add a tiny bit more functionality. You can now select from two different heat settings. "Adjustable heat settings probably won't become a standard feature on our cookers. But it's important to keep putting out different products and see how the market reacts. That process lets us rediscover what's fundamental to the value of our cookers." (CEO Chang)

TATUNG 100th Anniversary Cooker

Electric multi- functional cooker that lets you cook, steam, or stew with one button. Can easily replace a microwave in most situations. The 100th Anniversary Cooker offers two heat settings. Retail for 7,990 TWD (approx. \$255 USD).



Inner Pot Can Be Used on a Stove Top or Induction Heater

The inner pot is stainless steel and 1mm thick. With its built-in handle it's easy to move on to a stove top or induction heater.



Select From 2 Heat Settings (Steam/Cook and Stew)

This new feature lets you adjust the level of heat. Choose low to cook for longer, which can improve texture for some ingredients.



Person

Tatung Consumer Products Co., Ltd.
CEO
Chi Chang

Brand



Taiwan's flagship electric appliance maker founded in 1918. The TATUNG brand is based on four pillars: Integrity, Honesty, Industry, and Frugality. For over 100 years since their founding they've continued to make products that have become part of the daily fabric of life for the Taiwanese, and the Taiwan government has recognized them as one of the top 100 brands in the country.

Company

Tatung Co.

Chair: Wen-yen Lin Kuo
Established: 1918
Industry: Designing, manufacturing and sales of machinery for home and industry.
Employees: 2,869 (2019)

<http://www.tatung.com/>



The Equivalent of up to 180 Minutes of Decanting with One Touch

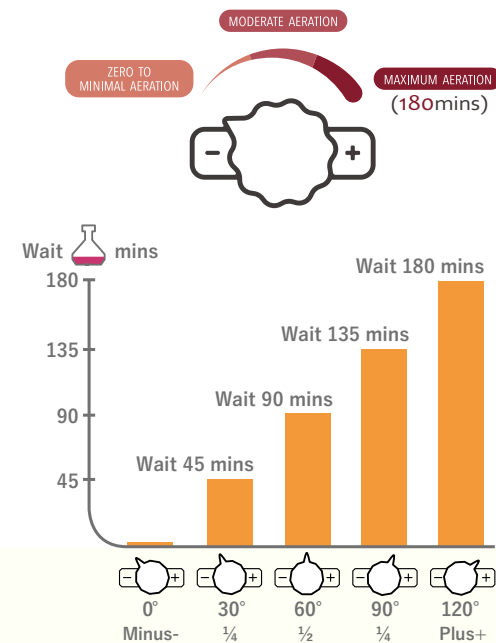
Adjustable Electric Wine Aerator- Vinaera Pro

By decanting wine or whisky (letting it sit and come in contact with the air), you can enhance its aroma and decrease the impact of tannins. Of course, that means you can't drink it right away, so many enthusiasts end up not bothering.

But the Vinaera from Mercuries Asia is changing all that. With a standard decanting glass, you need to let wine sit for quite a while, but the Vinaera draws up wine with a battery powered pump, and agitates it with air before dispensing, aerating it in a matter of moments. "We were able to achieve the equivalent of decanting for 45-55 minutes, which is suitable for 80% of table wines." (Manager Yeh-Yi Chung)

With the second generation Vinaera Pro (MV7) released in 2018, users can fine tune the amount of aeration to better suit older, more expensive red wines. This means you can achieve an equivalent of up to 180 minutes of decanting with the push of a button. And don't worry, you'll lose nothing in terms of aroma or flavor.

The company plans to release a 3rd generation model in 2019. "The goal is to make it mobile. It'd be great to be able to decant wine anywhere, no matter the time or place." (Manager Yeh-Yi Chung)



Freely Adjust the Level of Aeration

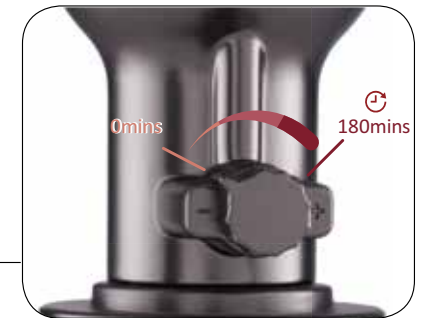
The indicator goes from 0 to 120 degrees. 60 is equivalent to 90 minutes of decanting.

Adjustable Electric Wine Aerator Vinaera Pro

An electric wine aerator with a dial for adjusting air injection volume. The flavor and aroma achieved has even been recognized by recipients of WSET's Level 4 candidate/ISG L2 certification.

Straw Can Be Extended to Accommodate Large Bottles

The straw that inserts into the wine bottle can be extended, accommodating bottles up to 1.5 liters. The end of the straw is covered with mesh that will prevent sediment from reaching your wine glass.



Person

Mercuries Asia Ltd.
Director, Product Manager
Yeh-Yi Chung

Brand

Vinaera[®] PRO
Adjustable Electric Wine Aerator

Mercuries Asia is a trading company specializing in designer and decorative goods. In 2014 they developed the world's first electric wine aerator "Vinaera," establishing it as a brand. It's won design awards in Germany, Japan and all over the world. In North America it's sold under the brand name "Aervana."

Company

Mercuries Asia Ltd.

Chair: Yeh-Yi Chung
Established: 1997
Industry: Export of lifestyle goods, design and sale of wine accessories.
Employees: 32 (2019)

<http://www.vinaera-global.com/index-c.html>



An Easy-to-Use Tea Brewer Helps Overseas Expansion of Tapioca Milk Tea

Intelli Tea Brewer TB-35T

Freser has a 70% share of the market for drink stand tea brewer in Taiwan. Their third-generation flagship product TB-35T is a tea brewer created specifically to support Taiwanese drink stand chains overseas. They're something of a shadow partner for the tapioca milk tea industry that has increased overseas expansion in recent years. "We've shipped units not only to Japan, the US and Europe, but Sri Lanka and Dubai as well," says Sales Supervisor Steven Lee.

They had two main requirements to

satisfy when creating the brewer. One was to make the UI easy to use, to better suit foreign staff who might be less familiar with how the drinks are made. Correct brewing times can change based on house styles or climate etc., but with the TB-35T users can enter settings quickly using the touch panel. You can also save settings to an SD memory card and insert it in the back to avoid having to make any manual settings at all.

The other requirement was to get

certified internationally. In addition to the standard CE for Europe and UL for the US, they also obtained certification from the National Sanitation Foundation in the US, and in 2018 they received PSE certification in Japan. "Drink stand managers can now assure the administration of any shopping center they move into that 'this machine is safe' without thinking about it." (Supervisor Lee)



Intelli Tea Brewer BT-35T

A tea brewer which is equipped with a 35-liter boiler that can continuously make 4.5 liters of hot tea every time without waiting for hot water supply. Furthermore, it can support 10 varieties of tea leaves at once, each set to specific temperatures and steep times. Ground-breaking design requires no paper filters. 80,000 TWD (approx. \$2,630 USD).



No Paper Filter Means Tea Leaves Spread Out

Hot water is poured on the tea leaves in a shower spread. The stainless-steel tea pot holds 4.5 liters and has a large diameter. This lets the tea leaves spread out evenly in the water. Competing products use paper filters and these prevent the tea leaves from spreading out as much.

Preparation Specifications Set Easily Via Touch Panel

With the TB-35T you can use the touch panel to set specifications depending on the type of tea. You can also load in specifications via SD memory card.



Person

Freser International Corporation
Sales Supervisor
Steven Lee

Brand



Freser was founded as a company specializing in industrial refrigeration, but since 1985 they've been a world leading retailer of cutting-edge food & beverage equipment. They also manufacture their own brands of tea and coffee makers, drink brewer, and ice makers.

Company

Freser Int'l Corp.

Chairman: Guo-Rong, Chang
Established: 1975
Industry: Design, manufacture, sales, and importing of food & beverage equipment.
Employees: 200 (Taiwan/2019)

<http://www.freser.com>

https://www.youtube.com/watch?v=LnXCbl0_u-c&t=26s+or+QR+CODE

A Thinking, Highly Mobile Robot to Save the Understaffed Food Service Industry!

A Smart Waiter Robot: Intelligent Meal Delivery Service Robot

A humanoid robot brings a table of hungry customers the food and drinks they ordered. On the way, it gracefully avoids obstacles without spilling a single drop. The smart service robot produced by the TECO group, a comprehensive electronic appliance manufacturer, is now in its second generation, and the latest models have already been deployed to certain locations of Mos Burger, in which TECO has invested.

When the robot reaches a table, it extends its arms, and holds out the tray. It is able to detect when the customers have received their food, at which point it turns

around and returns to the kitchen. Its vibrant motions have proved popular and effective in advertising.

TECO themselves developed not only the AGV (automatically guided vehicle) unit that forms the robot's base, but also the positioning, route calculation, and obstacle-avoidance systems, as well as the voice-responsive interface. For customers, having a one-stop shop to consult about all customization options when implementing the robot at their establishment is a huge merit.

In fact, this transportation robot can prove

useful in a wide variety of venues TECO has set their sights not only on restaurants, but also distribution warehouses, factories, hospitals, government offices, and more. "It's often said that the global market for service robots will surpass that of industrial robots in the near future. We are looking to apply our self-developed industrial robot technology and knowhow to this growing field, and present a wide range of service robot solutions to customers across all fields." (Lin Sheng-chyuan, Assistant Vice President and Director of the Automation & Intelligent System Group)



Extendable/Retractable Arms

The robot extends its arms to present food, and detects when the food has been safely received.

Gracefully Avoiding Obstacles

The robot's sensor immediately detects any obstacles that appear in its path, at which point it stops for moment and automatically calculates a new route.

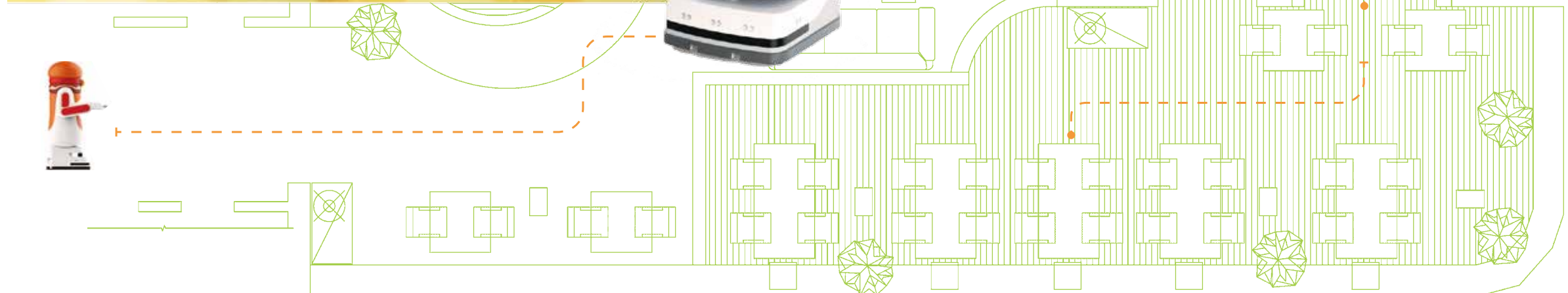
Digital Meal Cards

Connect Customers with Robots

Customers simply take a digital meal card provided to them by the shop employees back to their seats, and the robot brings them the food they ordered.

Intelligent Meal Delivery Service Robot

A humanoid robot with an on-board AGV unit developed by TECO. It is able to safely and skillfully navigate venues via route calculation and obstacle avoidance systems to deliver food to customers. It also features a voice recognition interface that allows it to hear and respond to customers' voices.



Person

Teco Electric & Machinery Co., Ltd.
Automation & Intelligent System Group
Assistant Vice President
Lin Sheng-chyuan

Brand



TECO's own brand seeks to make full use of their world-class technology and industrial motors to develop Earth-friendly green appliances and machines. As a comprehensive electronics manufacturer, TECO takes on any and all fields, from home appliances and IT to the construction of high-speed railway stations, electric cars, wind-generated power, and much, much, more.

Company

Teco Electric & Machinery Co., Ltd.

Chairman: Sophia Chwen-Jy Chiu
Founded: 1956
Industry: Manufacture of home appliances, electronic devices, IT, communications, etc.
Number of Employees: Over 10,000 across all groups (as of 2017)

<http://www.teco.com.tw/>





Intelligent Prayer Beads Change Practitioners' Lives

Smart Prayer Beads - Leap Beads



"We are not here to do just something conventional. We want to use components and technology from smart watches and wristbands to raise the quality of life (QoL) for more specific groups of people. This way of thinking brought us to religion." (Allen Jong, Associate Vice President, GadgeTek Inc.)

but it can be easy to forget how many times you have chanted. Leap Beads solve this problem with a built-in accelerometer. It can detect the fine motions of a user resting the prayer beads flatly in their lap and rolling them back and forth between their fingers, while the accompanying smartphone app receives

that data via Bluetooth. The same app can also play voice recordings of the sutras.

GTI isn't just targeting everyday consumers; it is also hoping to secure bulk orders from religious organizations and retirement homes, and has already developed some models in collaboration with Taiwan's iconic Taoist temple Dajia Jenn Lann.*1

In retirement homes, GTI envisions residents being encouraged to use the beads. The built-in pedometer will allow staff to get a feel for the daily activity levels of residents.

Founded in 2018, GTI is dedicated to providing innovative IoT gadgets that enhance people's lives. Leap Beads is one of the successful lifestyle gadgets GTI has brought to the market, and the company also has plans for devices designed for other religious groups.

*1: The chanting method used at Dajia Jenn Lann is similar to that of Buddhism.



Leap Beads

In addition to its prayer-logging features, this wearable device also includes the standard features of a smart wristbands (pedometer, sleep monitoring, call notifications etc.). Payment functionality is planned to be added in the future. Retail for 3,888 TWD (approx. \$126 USD).



An Electronic Brain Condensed into a Bead

The 2 cm diameter large main bead contains a circuit board, gyroscope, coil for wireless charging, and a rechargeable battery. Though made from resin, a special coating gives the bead an authentic wood feel. The side beads are made from cypress and sandalwood with decade-lasting aromatic fragrance.



Person

GadgeTek Inc.
Associate Vice President
Allen Jong

Brand



GadgeTek, Inc. was established in Taiwan in 2018 after splitting off from Acer, one of the world's leading manufacturers of personal computer peripherals. GTI endeavors to provide a wide array of gadgets that enhance and smartify people's lifestyles, always seeking to expand their product line to match the latest market trends.

Company

Gadgetek Inc.

CEO: Jerry Kao
Established: 2018
Industry: Design, manufacture and sale of IoT devices

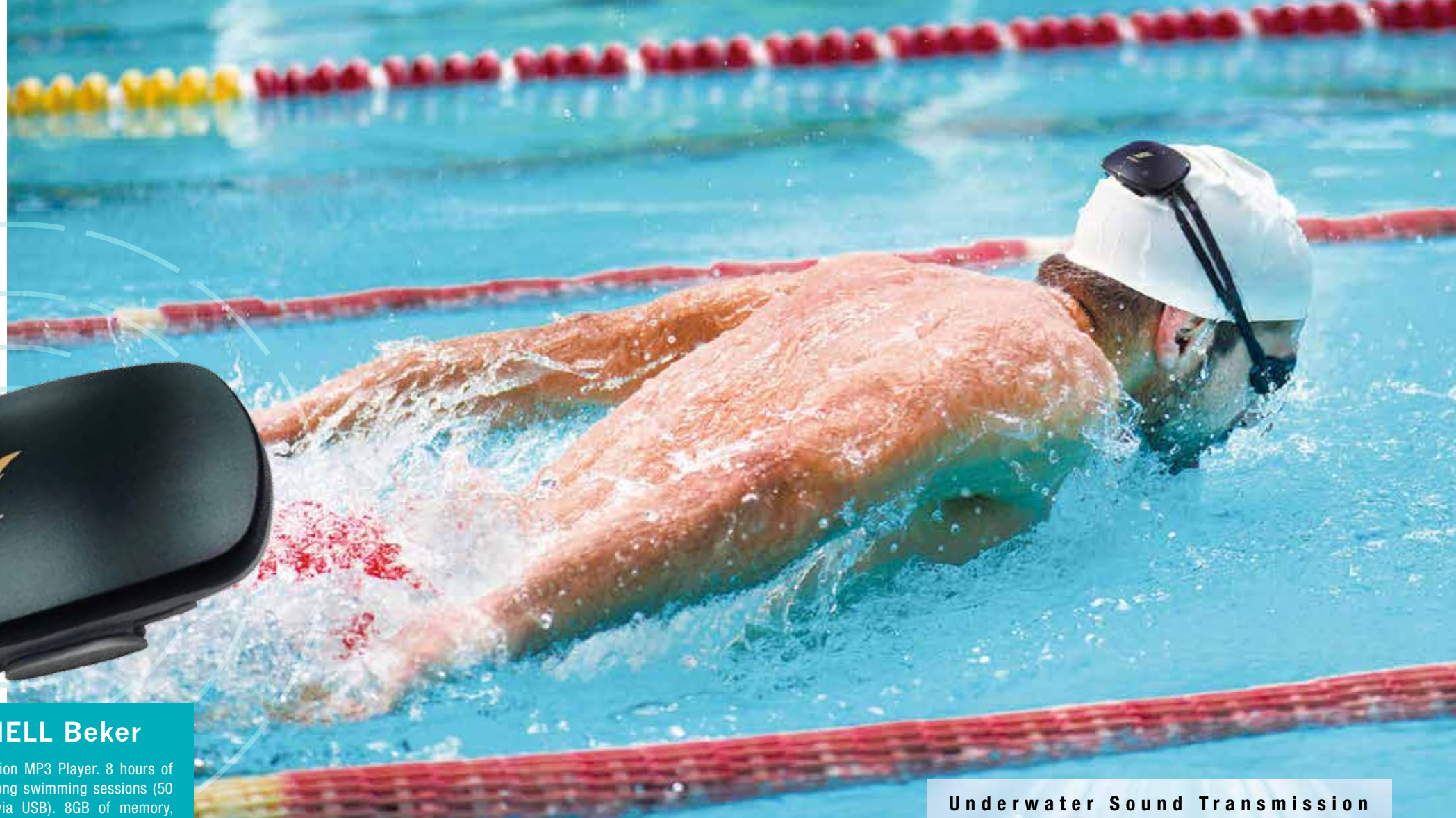
<https://www.gti.tech>



A Smartphone App Supports Everyday Life

The beads link to a smartphone app which displays the prayer count. The app can be used to play ambient music, share data with friends, and monitor your health.





MUSIC SHELL Beker

Waterproof Bone Conduction MP3 Player. 8 hours of continuous playtime for long swimming sessions (50 minutes to full charge via USB). 8GB of memory, around 2,000 songs. Waterproof up to depths of 3m. Mac/Win compatible.

Swim Along to Your Favorite Tunes with This Waterproof Bone-Conduction MP3 Player!

Waterproof No-Earphone Bone Conduction Music Player – Music Shell Beker

Bone conduction music players have impressive sound quality, but the Beker Music Shell from Happy Island takes things a step further. Unlike a lot of other similar players, the device doesn't attach to your ears. Instead it goes directly on the back of your head.

The vibrations of the music are transmitted directly to your ears' nerves, for better sound quality compared to earphone models that tend to get muffled in the water. Bass frequencies, transmitted through the water, are even clearer.

"We're the only company in the world currently making a player that attaches to your head. Thanks to the internet we have steady sales in America and Japan as well." (CEO Jordan Huang)

The waterproofing meets the highest international standard, IPX8, and the device is usable at depths of up to 3 meters. It can play music continuously for 8 hours and holds about 2000 songs.

CEO Jordan Huang, leader of this young startup company, spoke about the development process. "Initially we

were prototyping a projector with built-in speakers. But there was a lot of competition, so we gave up on that product. In the prototyping process we learned about bone conduction technology, and felt like it had potential, so we steered development towards an underwater music player."

The venture spirit of not shying away from big course corrections paid off in this bold new product.

Underwater Sound Transmission



Treble and Mid-Range (Bone Conduction)

Sound is transmitted directly to the inner ear and auditory nerves via vibrations.

Bass

Transmits through the water, with a range of only up to 1 meter, so other swimmers won't be disturbed.



One-Touch Operation of the Wearable Unit

No earphones are necessary, just a simple press of a button. Ideal not just for swimmers, but runners and cyclists as well.

Special Magnetic Waterproof Interface

The plastic that makes up the exterior of the device is molded with the USB port already inserted, leaving no gaps between the port and the plastic for a high degree of waterproofing.



An IoT-ready successor is already in development.

Planned to include functionality for recording and managing swimming data such as speed and time.



Person

Happy Island Tech Co., Ltd.
CEO
Jordan Huang

Brand



A startup founded in 2012, headquartered in the Zhongshan, Taipei. Around ten employees, split between development and sales. Planning to establish a Chinese base in Kunshan near Shanghai. The Music Shell player was developed in 2015 and is already on sale online in Europe and Japan to rave reviews.

Company

Happy Island Tech Co., Ltd.

CEO: Jordan Huang
Established: 2012
Industry: Sports Electronic Device Development and Manufacture
Employees: 10 (2019)

<https://www.happyisland.com.tw/>



Medical Socks with 6 Different Features to Protect Diabetics' Delicate Feet

Medical Support (Diabetes) Foot's Socks

Complications that can accompany diabetes, such as blood flow blockages, can cause feet to become gangrenous. So the feet need to be kept clean at all times, and constriction should be avoided to protect weakened skin. It's also important to not overlook even the slightest amount of bleeding.

These Diabetic Medical Support Socks were developed by a compression sportswear maker for exactly that kind of care, utilizing their own proprietary ergonomic technology.

The material is a combination of Rayon and white bamboo that is highly antibacterial, with the perfect degree of far-infrared radiation. The light gray color was achieved via a special method where the white bamboo is crystallized at 1000 degrees Celsius, and it makes it easy to spot any blood.

The fit is loose, but the socks can be secured at the top of the foot with fasteners. The inside of the soles uses a toweling fabric to absorb sweat and prevent moisture build-up. As both an anti-slip measure, and to promote circulation, the outside of the soles has a sewn in cover with a special bumpy texture.

"We're getting good reviews, and some people have even purchased them for sports such as rock climbing. We've had overseas orders from as far away as Germany." (CEO Steven Chiang)

Going forward, this busy CEO will be looking into IoT socks that use conductive fibers for low frequency massaging.



The inside of the socks uses a toweling fabric to prevent moisture buildup

To maintain hygiene on the soles of the feet, a toweling fabric that quickly absorbs sweat is ideal. This can also prevent odor.

High-Visibility Colors for Easier Detection

Employs a light grey color so as not to miss even the most subtle bleeding.

Designed to Reduce Constriction

Socks that are too constricting can exacerbate poor circulation. These socks have been designed to fit loosely to improve blood flow.

Hook-and-loop instep fastener

Loose socks that do not impede circulation have a habit of slipping, but a hook-and-loop fastener on the instep will prevent this.

Medical Support (Diabetes) Foot Socks

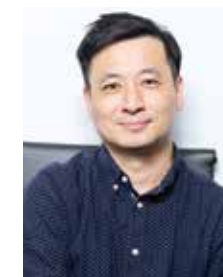
Medical support socks for diabetics. Antibacterial and with a non-constrictive loose fit to support the feet. The soles have an anti-slip cover and can be worn outside without putting on shoes.

Anti-slip sole cover

The outside of the soles has a soft cover with a special bumpy texture. In addition to improving traction, the bumps stimulate the feet.

Antibacterial, with far-infrared radiation properties Fibers are blended with white bamboo

Diabetics are at high risk for injury and bleeding, so the socks are made from material that is antibacterial and heat-retentive.



Person

Unite Creative Design Co., Ltd.
CEO

Steven Chiang

Brand



A compression sportswear brand started in 2009. Manufactures products based in sports science and medicine that draw out athletes' potential. Has recently made inroads into the medical field. Pursuing overseas partnerships, including a joint venture with an Egyptian company started in 2011.

Company

Unite Creative Design Co., Ltd.

CEO: Steven Chiang
Established: 2009
Industry: Compression Sportswear Manufacture and Sales
Employees: 30 (HQ, 2019), 3,000 (Egypt Factory)

<https://ucr-compression-sportswear.business.site/>





IoT Makes Apartment Living Safer and Convenient

e-F@mily: Smart Community Cloud Intercom System

The Smart Community Cloud Intercom System is a solution that aims to increase safety and convenience in your living environment. Security and communication between residents in a community such as an apartment building can all be controlled from a central terminal.

Using multiple cameras and video doorbell placed at entryways and windows, residents can control their door

locks and secure their safety on a per household basis. Visitors will be recorded on video, and if anything is amiss an alarm will sound. Using the app, residents can talk to visitors at their door even if they aren't at home.

It also includes smart communication features for sharing information within the community or tallying votes.

And Tonnet is looking even further ahead in a cooperative venture with a

VOD (video on demand) contractor. This will allow voice and video of visitors to be displayed on TVs via VOD. Residents won't have to go look at their intercom any time there is a visitor. "These new features have drawn interest from Chinese apartment developers who are expanding into Southesat Asia and elsewhere. I don't think it'll be too long before we start exporting." (Supervisor Ken Chen)



Example of TVI7619 Situated in Living Room



Example of Emergency Intercom TVI5718 Placed in Courtyard



Building Managers Can Check Abnormalities on the Control Panel

The environmental control software is web based, so it can be used not only by residents but building managers as well. Managers can use it to find abnormalities in the electrical systems or facility, and control cameras and the main entrance locks.

e-F@mily: Smart Community Cloud Intercom System

Solution that combines telecoms and IP camera technology with a smart community system. The centerpiece is the touch panel control terminal TVI7619. Other devices include card readers with IP cameras (TVI3518), and the TVI3848 which can be used to confirm visitors via camera and unlock doors.



Control Terminal [TVI7619]



Central Control Console [TVI1918]

Card Readers with IP Cameras [TVI3518]



Video Doorbell [TVI3848]

Emergency Intercom [TVI5718]



Person

Tonnet Telecommunication Int'l Co., Ltd.
System Integration Supervisor
Ken Chen

Brand

e-F@mily

Tonnet is a supplier of intercoms, extension telephones, and surveillance cameras for shared facilities such as apartment and office buildings. e-F@mily is a brand started in 2011 to promote smart residence technology and is a good example of the company's drive to integrate their own technologies.

Company

Tonnet Telecommunication Int'l Co., Ltd.

CEO: Harry Chen
Established: 1983
Industry: Design, manufacture and sale of extension telephone systems and Smart Building.
Employees: 120 (2019)

<https://www.tonnet.com.tw>



Smart Roller Blinds that Automatically React to Sunlight and Reduce Environmental Impact

Intelligence Roller Blind

Imagine if your window blinds came down all by themselves if it got too bright or hot. Not too long ago that might have sounded like something out of science fiction, but Intelligent Roller Blinds have made it a reality.

They were developed by motorized blind manufacturer Bintronic Enterprise, located in Kaohsiung in southern Taiwan. “We decided to try making smart blinds after a request from a long-standing business

partner,” says Vice President Chih.

Under Chih’s direction, the development team combined two of their existing products, motorized blinds and a sun tracing sensor. The sensor monitors the sunlight and the environment outside and based on any changes multiple blinds can deploy or retract at the same time.

It’s a perfect setup for facilities with lots of windows and blinds, such as large factories, or museums where precise

temperature and light control is needed to protect the exhibits. Also, by controlling sunlight levels air conditioners can work more efficiently, lowering energy costs.

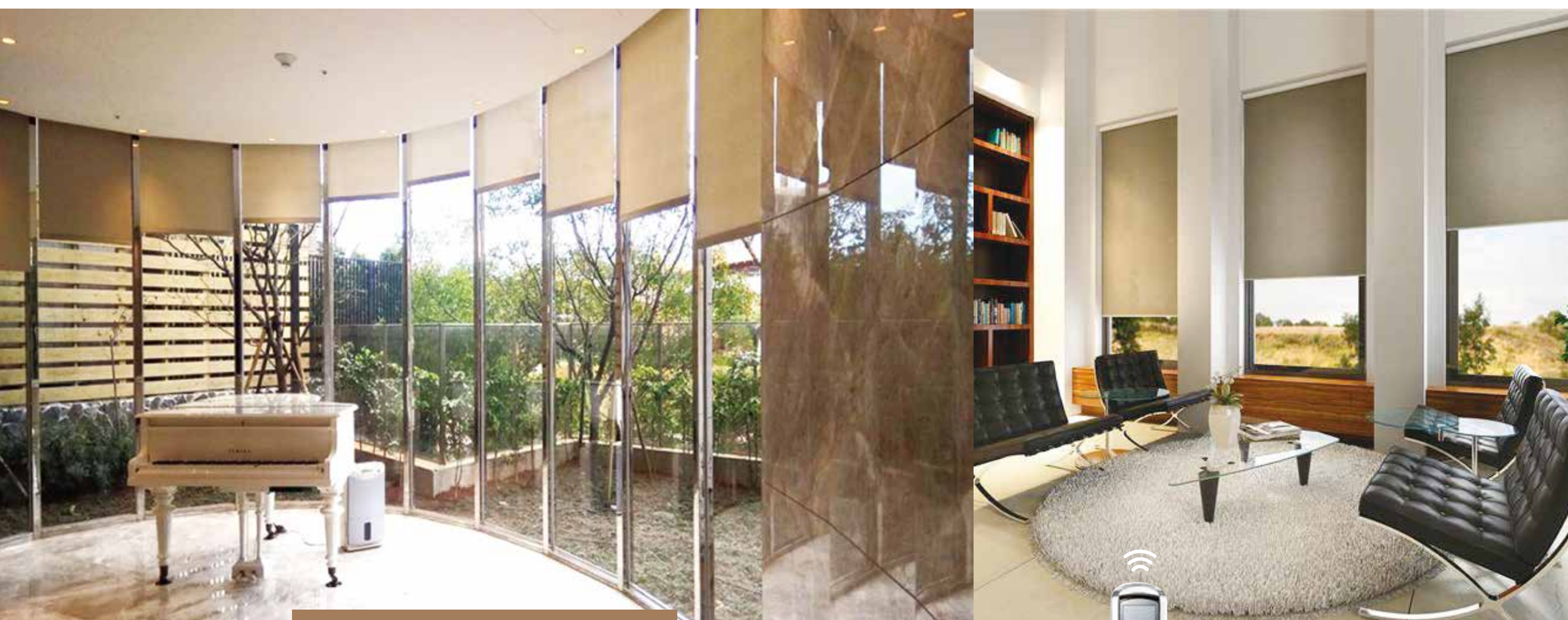
“In addition to Taiwan we’re getting enquiries from mainland China about our smart blinds. Being able to make the move to smart and IoT devices is an important tool to have in the manufacturing industry.” (VP Chih)

Blinds That Automatically Respond to the Amount of Light

In order to ensure a comfortable light level inside, the blinds automatically adjust their position depending on the weather and position of the sun. If there is a significant amount of light coming in, they go down. If there isn’t much light, they go up.

Reduce Energy Usage and Cut Utility Costs

With the sunlight levels inside kept in check, air conditioning and heating will function more efficiently. This is better for the environment and lowers energy costs.



Intelligence Roller Blind

Smart roller blinds that sense the environment outside and automatically deploy or retract to adjust interior light levels. Notable for the fact that roller blinds on multiple windows can move in tandem.

A Semi-Automatic Model with Lower Installation Costs

A “semi-automatic” model is also available. It lacks the automatic adjustment features but allows you to control multiple roller blinds at the same time with a remote. The lower cost makes them more accessible for private smart homes.



Person

Bintronic Enterprise Co., Ltd.
Vice President
Director of Product Design
Chih Jung Chang

Brand



A house brand of Bintronic Enterprise. The concept is products that are “smart and comfortable.” With over 30 years of experience in automatic doors and motorized blinds, they’ve now moved into smart rolling blinds and smart curtains as well. Going forward they plan to add support for Apple platform devices.

Company

Bintronic Enterprise Co., Ltd.

CEO: Chih Jung Chang
Established: 1989
Industry: Manufacture and sales of automatic doors and smart blinds and curtains.
Employees: Less than 100 (2019)

<http://bintronic-en.ezsale.tw/bintronic.asp>



Accurate Management of Blood Sugar Level Via IoT Reduces Burdens on Diabetes Patients and Doctors

IoT Blood Sugar Management System for Diabetics: Rightest CARE Total Solution

Rightest CARE Management is a direct and non-stop service designed to provide accurate blood sugar monitoring to patients and their families, medical care providers, and guardians.

The simple and effective system makes use of IoT and the Cloud. It begins with an IoT-equipped blood sugar measuring tool. The data is then automatically uploaded to the Cloud, where daily data can be monitored via smartphone at any time by those with access privileges.

“With this innovation, we can achieve

accurate collection and monitoring of blood sugar level data, a key to illness management and prevention of emergency situations.” (Bionime Chairman Mr. Roy Huang)

“The blood sugar data is automatically converted into a visually intuitive graph. It should especially come in handy during visits by specialists examining complicated diseases.” (Director Minglun Chang)

Through technology that automatically and accurately monitors blood sugar

data, the risk of human error posed by traditional analog measurement methods is sharply reduced, and human resources expended on clerical work and data management can be redirected towards specialized treatment, improving the overall quality of the medical care provided. The visually optimized graphs of blood sugar level can be employed as a shared resource among all specialists examining for complicating issues, forming a foundation for a comprehensive treatment plan.

Rightest CARE Total Solution

An affordable and precise IoT blood sugar management system for diabetics, made possible by connecting patient's homes with medical providers via IoT devices and the cloud. Currently used in more than 300 healthcare institutions in Taiwan.



Accurate Digital Measurement of Blood Sugar Levels

For diabetes patients, every day is a battle to monitor blood sugar level and prevent complicating issues. This device aids patients and medical care providers by providing accurate measurement of blood sugar level according to a self-customized schedule, an alarm to signal when blood sugar should be measured (complete with a feature to adjust for different time zones when on vacation), and automatic uploading of the digital blood sugar data to the Cloud.



Patients are Connected with Doctors and Health Care Providers Anytime, Anywhere

Medical care providers can check the patient's blood sugar level at any time via the Cloud, meaning the patients can feel comfortable knowing they can always receive advice and care without physically visiting. The on-hand system can contact the medical team when an emergency such as a sudden drop in blood sugar occurs.



4D Blood Sugar Contextual Analysis

A rapid snapshot of blood sugar pattern results by the multi-dimensional informatics graphic of the golden 90-day period. Via the unique intelligent 4D data analysis, from every single test point (1D), before-after meal pair test (2D), blood sugar dynamic fluctuations (3D) to blood sugar-life style pattern (4D), personalized influences of blood sugar status can be easily recognized, and medical blind spots caused by data errors can be reduced, in addition to providing safe, secure and correct glycemic decision-making information.



Person

Bionime Corp. Director Marketing and Product Planning Minglun Chang	Bionime Corp. Chairman Roy Huang
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Brand

RIGHTEST

Rightest is a brand of the Bionime Corporation. With a vision to create the most prestigious diabetes solution to patients around the world, Bionime has dedicated itself realizing a number of innovations to meet its users' needs. Developing and releasing the most accurate, or "Rightest," blood sugar management system as their motto, they've created over 10 different non-IoT and IoT products and services to date.

Company

Bionime Corp.

CEO: Roy Huang
Established: 2003
Industry: Manufacture and sales of medical devices and services, focused on blood glucose monitors.
Employees: 1,000 (2019)

<https://www.bionime.com/>





Level-Up Your Vacations with this Fast and Spacious Cruiser Yacht

Cruiser Yacht: Horizon FD87

In the port of Kaohsiung in southern Taiwan, there's a cruiser yacht maker on a ten-year run of recognition for excellence. Horizon Yacht has a one-third share of the cruiser yacht export market on sales alone, and they're the main reason the Taiwanese cruiser yacht industry is now top-five in the world.

Their most recent award winner is the FD87. Since going on sale in 2016, it's been a strong performer with orders

from America, Australia, and Europe. "Compared to other boats of the same size, there's 30% more interior space. And our special designs allow for a 5-6% speed increase, which has been a big hit with enthusiasts," says CEO John Lu.

Most cruiser yachts come to a point at the front in order to increase speed. But the FD87 is rounded at the front, giving it more interior space. Normally this

would sacrifice speed, but here it's increased by using a special design where the underwater portion of the bow is pushed out in front.

The uniquely functional exterior was thought up by a Dutch designer, while the interior and machinery were handled in-house. It's a cutting-edge boat that owes a lot to the Taiwanese spirit of proactively seeking collaboration abroad.



A Spacious Deck with a Whirlpool Bath Offers an Incredible Sense of Openness

From the whirlpool bath on the rear deck, you can enjoy an uninhibited view of the surrounding scenery. It comes complete with a bar counter, making it perfect for parties.

Horizon FD87

A cruiser yacht with speed and a spacious interior. 5 cabins, 1 more than other boats in the same grade. Total length is approximately 27 meters, with a displacement volume of 95 tons. Recommended capacity of 12-16 passengers.



Spacious Cabins with Expansive Ocean Views

The luxurious interior features the finest furnishings. The large windows allow for plenty of natural lighting.

Bridge Options Allow For Conversion to a Skyline

Conversion to a skyline yacht with an expanded field of view is possible by replacing the left and right walls of the bridge with glass.



Person

Horizon Yacht Co., Ltd.
Horizon Group
CEO
John Lu

Brand



FD stands for "fast displacement." With the establishment of their FD Series of yachts combining speed with expansive living space, Horizon Yacht has gone global. Famous for their unique designs, such as windows that open out. The FD87 measures 87 feet. Other sizes include the FD77, FD85, and FD102.

Company

Horizon Yacht Co., Ltd.

CEO: John Lu
Established: 1987
Industry: Manufacture and sales of cruiser yachts.
Employees: 750 (group-wide, 2019)

<https://www.horizonyacht.com/>





Black Box

Turns any car or motorbike battery into an IoT device. Transmits info to the driver's smart device via Bluetooth and stores the data in the cloud. Features a variety of functions, including antitheft.

Make Your Car Battery a Multifunction IoT Device Voltage Monitoring, Antitheft, and Power Management

Battery IoT Converter: Black Box

The palm-sized Black Box attaches directly to the battery. Next you download a proprietary smartphone app. Congratulations, your car battery is now an IoT device. The battery's operating condition, including voltage, current, and temperature, will be displayed in graphs right on your smartphone. All data will be stored in the cloud and if any malfunction is detected you'll be notified right away.

But that's not all. Once you leave your

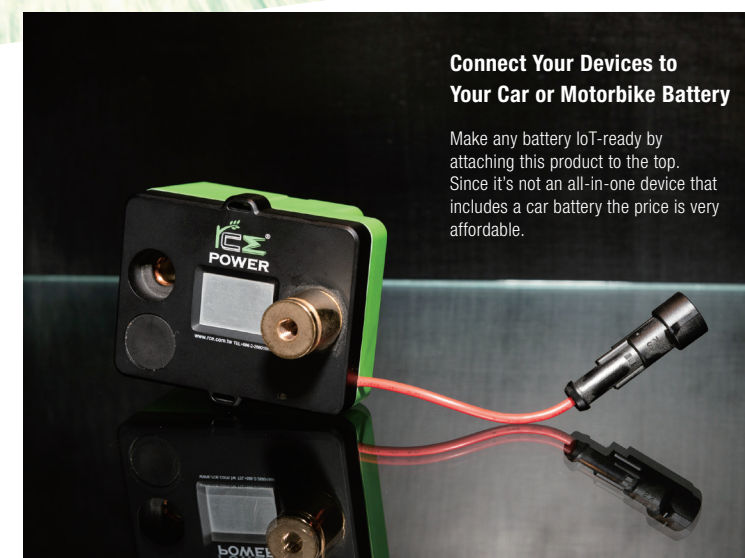
vehicle you can switch on the antitheft mode. The battery will stop functioning, so even if a thief is able to get into your car, they won't be able to start it.

There's also a button to completely cut battery power. If you have a car you only drive occasionally, you can leave the battery off when you're not using it and more than double the battery life.

"IoT gives your battery more functionality, and I think there'll be even more possibilities in the future," says CEO of

Black Box developer RCE Michael Chen, confidently.

CEO Chen has an interesting career path. He started in real estate but pivoted from his motorbike hobby into manufacture and sale of lithium-ion batteries, which are small and powerful but require careful handling. Having a CEO who works passionately on research for his own vehicle's sake puts his company far above the rest in terms of quality and technology.

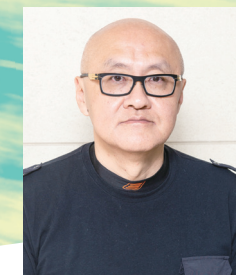


Connect Your Devices to Your Car or Motorbike Battery

Make any battery IoT-ready by attaching this product to the top. Since it's not an all-in-one device that includes a car battery the price is very affordable.

Use the App to Visualize Your Battery's Condition

You can display not only voltage, but current and temperature in real time on your smart device. The interface and graphs visualize the data, allowing you to intuitively understand the condition of your battery.



Person

Reduce Carbon Energy Develop Co., Ltd.
CEO

Michael Chen

Brand



This brand is focused on safety and environmental consciousness. Their main product is lithium-ion batteries for motorbikes and cars, which are used by some foreign sports car makers. Customer-focused, they offer the world's first three-year warranty for lithium-ion batteries.

Company

Reduce Carbon Energy Develop Co., Ltd.

CEO: Michael Chen
Established: 2009
Industry: Manufacture and sales of motorbike and car battery related products.
Employees: 12 (2019)

<https://www.rce.com.tw/index.php>





LPWAN Smart Parking Space Detection System

A parking lot management system with IoT devices using LPWAN communication*. Installing an IoT device in each parking space allows its usage to be monitored. There are two models, one which sits on the surface of the ground (P01) and one which can be installed in the ground (P02).

*Low Power Wide Area Network: a communication system that allows for long range transmissions at low energy costs. Transmits much lower volumes of information compared to Wi-Fi, but is perfect for cases that don't involve large amounts of data.



Ground-Set Model



Burial Model

Smart Parking System Unlocks a World of Convenience Usage Data Opens New Business Avenues

LPWAN Smart Parking Space Detection System

This smart parking system is delightfully simple. Simply place one of the IoT devices in each parking space. As soon as a vehicle pulls through the sensor into or out of the parking space, the parking space information is reported to the management platform.

Drivers can use a proprietary app to guide them to nearby empty parking spots.

Since the system went on sale in 2016, more than 15,000 devices have been

sold, mainly in Taipei. "Uncollected parking fees are down, and revenues have multiplied for more than a few locations. We've had inquiries from abroad as well," Executive Vice President Johnson Chang is happy to report.

He goes on to say "the data on parking space usage that accumulates daily is the definition of big data. We're seeing movement towards analyzing this data for business purposes."

One parking lot noticed that usage was

extremely high in a specific section, and they were able to create a new advertising space there. In another lot, they realized they got extremely busy at a time of day they hadn't expected. They were able to add more staff during that time span and increase their staffing efficiency. It's the perfect example of IoT adding convenience to an existing system, and the collected data opening new business opportunities.



Easy Installation and Maintenance

For in-road installation, the devices have the same diameter as a standard excavator. Simply dig an approximately 7cm hole using standard excavation methodology and you're done. The internal battery lasts for 3-years, and the device is highly water resistant and has anti-theft sensors, so in most cases once installed you won't have to think about it again for 3 years.



Check Parking Lot Usage in Real Time

Drivers can use the app GoGo Parker to quickly and easily find an open parking spot. Administrators can easily check their lot's status at a glance, and the accumulated data can be analyzed and put to use in operation.

High Potential for Expansion New Business Developments Expected

In the future, improvements to the company's software will enable even more smart parking functionality. Administrators will be able to receive notices about overstays, or accept payment with electronic money, and users will be able to reserve parking spots ahead of time.



Person

Nietzsche Enterprise Co., Ltd.
Executive Vice President
Johnson Chang

Brand



In-house smart parking system brand from Nietzsche Enterprise, originally a manufacturer of Morse code communication devices. Using the data collected from their IoT devices they aim to expand functionality and explore new business possibilities. Being able to develop both IoT devices (hardware) and management applications (software) is a key strength.

Company

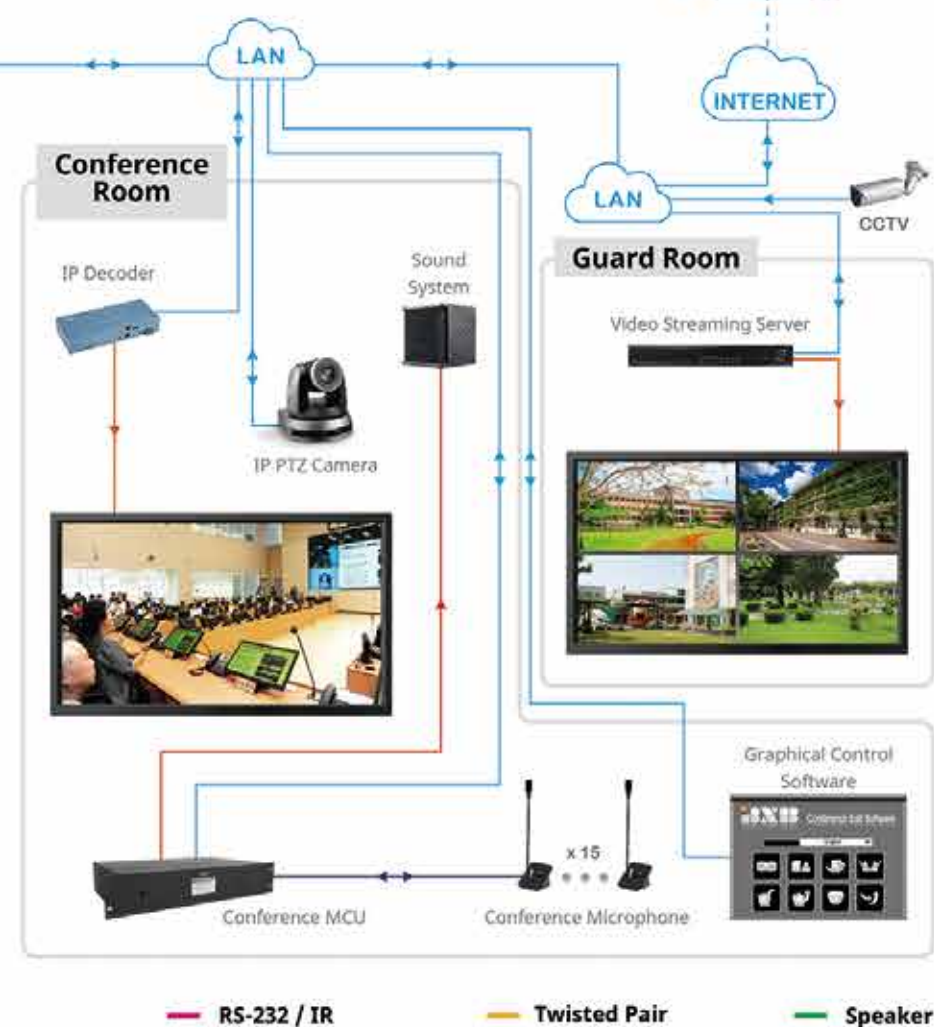
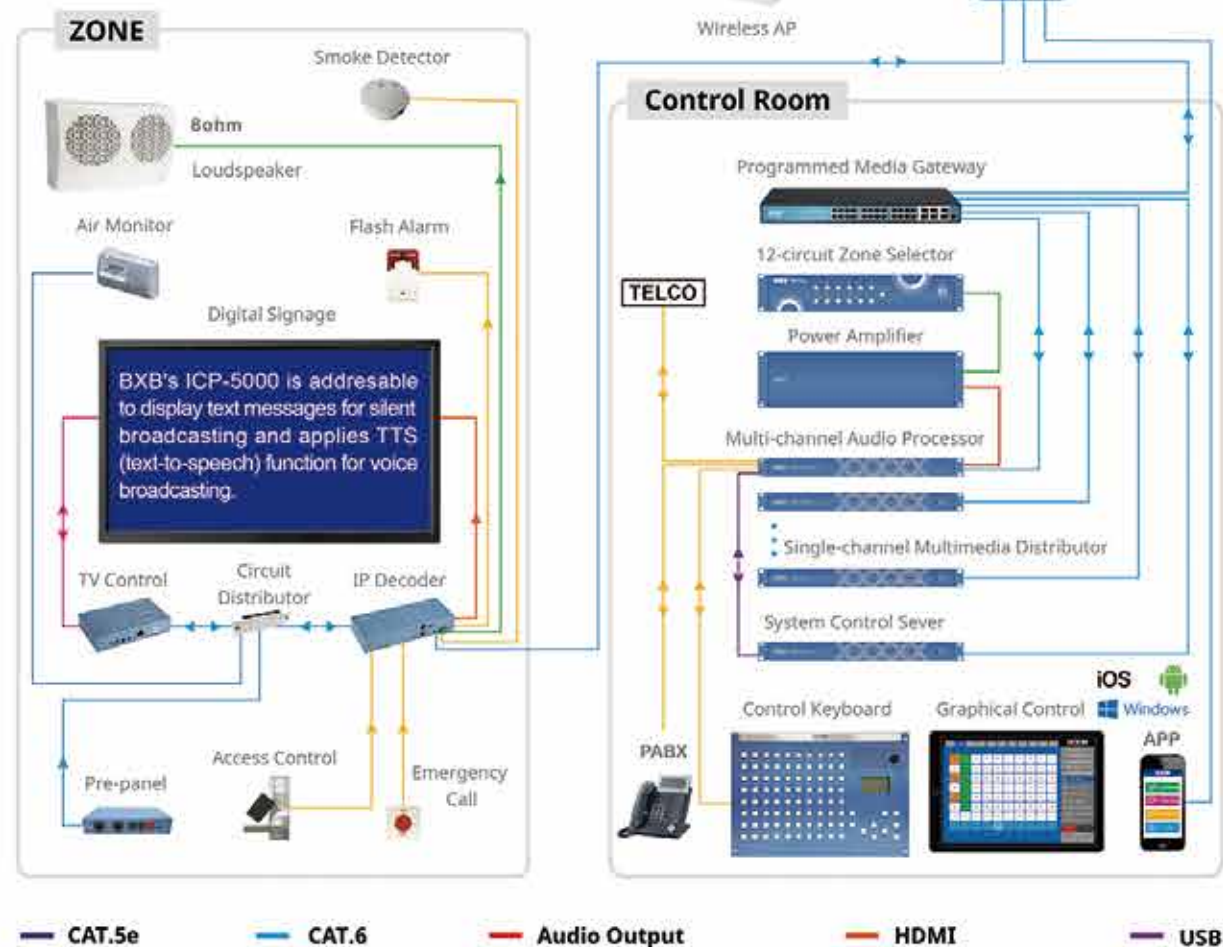
Nietzsche Enterprise Co., Ltd.

CEO: Johnson Chang
Established: 1978
Industry: Development, manufacture, and sales of communication devices, sensors, and IoT devices and management software for parking lots.
Employees: 120 (2019)

<https://www.nhr.com.tw/>



• IP-based • Smart • Cloud



Can Be Augmented with Almost Any Digital Device

The IP decoder ICP-5111 in each classroom can receive video and audio transmissions as well as instructions from the control center and pass them on to any digital device within the classroom. Additionally, the ICP-5111 can connect to video cameras and carbon dioxide sensors to send notifications about any abnormalities back to the control center.

All-In-One Graphic Control App

Video and audio streaming, and control of any digital device can all be done from the management app. The app visualizes the conditions within each classroom and can be used from a smartphone or tablet no matter where you are.

Increased Fire Safety and Security

With all your digital devices networked you can create a fire safety and security system within the school that can open and shut the school gates, control security cameras, or broadcast emergency evacuation messages.



Person

BXB Electronics Co., Ltd.
General Manager
Jerry Hung

Brand



In-house brand that aims to combine the best with the best (Best X Best). They specialize in new solutions that leverage AV devices and IoT. By applying what they've learned with their smart campus solution they hope to move on to smart offices, smart factories, and eventually smart communities.

Company

BXB Electronics Co., Ltd.

CEO: Chang Cheng-Huan
Established: 1991
Industry: Video Conferencing, Recording & Livestreaming, and Smart Campus Solutions
Employees: 60 (2019)

<https://www.bxb.tw/>



Create a Smart Campus With AV Broadcasting and IoT Management

IP-based Smart Campus Solution ICP-5000

Classrooms these days are packed with devices for ensuring safety and a high standard of education. Video displays, speakers for announcements, air conditioners, alarms etc. Transmissions from all of those can be compiled in an

ICP-5111 IP decoder placed in the classroom. The information sent from each classroom's IP decoder is then received in a central control center that can also send commands to each decoder. This is the gist of the smart campus solution

proposed by BXB Electronics.

"For English-language classes of different levels, you need to be able to send materials of different levels to each specific classroom. This would

normally be difficult, but we've made it easy. About 60 schools in Taiwan currently use our system and we've had inquiries from Hong Kong and Dubai." (Manager Hung)

Every device in the school can be remote controlled via smartphone. A teacher can be grading in the staff room while also monitoring an

extracurricular club on their smartphone via the video cameras in the classrooms or gymnasium.

Their after-sales service is robust as well. Two specialized staff are assigned to every school, and they work closely with the school to ensure smooth operations.

IP-based Smart Campus Solution ICP-5000

A smart campus solution that integrates all devices within a school. Classroom displays, speakers, cameras and alarms can all be controlled via a network of IoT devices.



Interactive Flat Panel

A large touch panel with 4K resolution, 20-point multi-touch capability, and built-in speakers. Connectivity to the cloud and IoT devices make it the cornerstone of any smart room.

Smart Collaboration Becomes a Reality With Futuristic Panels

Touch Monitor for Enterprises: EP65 Interactive Flat Panel

Created by IoT device manufacturer AVer Information Inc., this interactive flat panel is essentially a giant high-functionality tablet. It's the latest in office technology and perfect for distance learning as well.

The panel offers 20-point multi-touch, 4K Ultra HD resolution, and built-in speakers. Presenters can share and interact with vivid content, and a wide-angle camera captures the

entire class or conference room.

Embedded with an i7 mini-PC, the EP65 supports Zoom Rooms for education and business applications. This compatibility delivers a complete distance learning solution that users can apply for both in-class and administrative purposes.

All-in-One Device Instantly Creates the Perfect Huddle Room

Video Conference Tool: VB342 Video Soundbar

As a leading video conferencing equipment provider, AVer Information Inc. has focused equal effort on huddle rooms and smart classrooms in recent years.

Huddle rooms are meant to be creative spaces for casual meetings in which opinions can be exchanged freely. Video conferencing equipment increases such possibilities, allowing users to include

teleworkers or connect to huddle rooms in other locations.

"In America the market for cloud-ready huddle rooms is \$9.5 billion, and it's expected to grow even more," said AVer Smart Industry Business Unit Vice President Kings Wang. "We developed the video soundbar as a compact video conferencing system that would be ideal

for them."

The main selling point is that the camera, speakers, microphones, and telecommunications are all consolidated in one product. It can be used simply by connecting a notebook PC and display, and its size makes it easy to move or store. The VB342 has been available worldwide since 2018, producing particularly strong numbers in America.



Easy Setup
Clear Picture and Sound

Simply connect PCs and a display to complete setup. Enjoy 4K, high sound quality video conferencing with a compact and low-price product.



VB342 Video Soundbar

An all-in-one video conference tool for small groups, featuring a 4K camera, 10W speakers, and telecommunications. Size: 650 x 100 x 109.5 mm / Weight: 2.1 kg



Person

AVer Information Inc.
Vice President
Smart Industry Business Unit
Kings Wang

Brand



A brand focused on developing solutions for realistic conveyance via video signal. Core products include document cameras for showing materials on screen, tracking cameras that automatically focus on speakers in large classrooms, and video conferencing equipment. The company's first product was a document camera for use in the classroom, so its connection and commitment to education is deep.

Company

AVer Information Inc.

CEO: Michael Kuo
Established: 2008
Industry: Manufacture and sales of document cameras, video conferencing equipment, and smart classroom devices.
Employees: 502 (group wide, 2019)

www.aver.com





6.17" Deep Sensing Technology- Integrated In-cell 3D

LCD that is both capacitive and pressure sensitive. A pressure sensitive film detects fingers pressing on the screen, allowing the device to respond to the amount of force used.

High Water Resistance Perfect for Underwater Photos

Capacitive screens that respond to changes in electricity can't be used under water, but this product is pressure-sensitive and highly water resistant so it's up to the task.

Pressure Sensitive LCD Opens Up A New Dimension for Next Gen Smart Phones

6.17" Deep Sensing Technology - Integrated In-Cell 3D Touch LCD

Deep sensing allows a screen to sense not only touch, but the amount of pressure being applied as well. "Until now smart phones have been purely two dimensional. But by detecting the level of force applied, depth comes in to play as well, making 3D touch a reality," says Dr. Yang, touch panel researcher at Innolux.

The award-winning 3D touch displays that use this technology are expected to revolutionize not only smart phones and tablets, but all sorts of IoT products.

Current touch displays are what's called capacitive, using the change in static electricity caused by a finger on the screen to detect touch, and therefore they don't react to fingernails or gloved hands. This 3D touch display on the other hand uses a pressure sensitive film to detect when the screen is pressed, allowing it to respond to different materials, or while under water.

Initially, detected pressure could only be divided into 3 levels, weak, medium,

and strong. But after 3 years of cooperative testing with other makers, it now supports 16 levels of fine pressure detection. The finished product has even cleared durability testing that saw it placed in a drum canister and air lifted.

"As IoT proliferates, we're finding ourselves surrounded by LCDs. We want to make them something that feels comfortable, that gives precise feedback to people's actions. Hopefully this product is the start of that." (Dr. Yang)



Touch Strength Affects Behavior

The amount of pressure detected by the screen can be divided into up to 16 levels. Above, a light touch is displayed as a small red circle, with a more forceful one showing as a larger blue circle.



Pressure Sensitive Screens Respond to More Materials

Standard capacitive LCDs can't respond to touch from rubber products or gloves, but this screen can because it detects pressure as well.



Person

Innolux Corp.
General Director
Technology Development Division
Chiulien Yang

Brand



Innolux Corp. is the LCD vendor for Foxconn, and Innolux is their in-house brand. They manufacture and sell displays for a wide variety of products including smart watches, PCs, TVs, medical devices and aeronautical instruments. Their market share for displays in aircraft is #1 in the world, and they're in the top three in the medical and video game fields.

Company

Innolux Corp.

CEO: Jim Hung
Established: 2003
Industry: LCD manufacture and sales.
Employees: 57,000 (group-wide, 2019)

<http://www.innolux.com/>



Long-Held Pigeon Racing Mystery Solved A GPS Sensation in a 4-Gram Ring

SKYLEADER Race Pigeon GPS Tracker

Pigeon racing is well known as an eccentric hobby around the world, with trainers in South Africa, China, Japan, America and Mexico. In Taiwan it's so popular there was a movie about it in 2017. Pigeon races have always had something of a mystery to them, one that would pique anyone's interest, but no one has been able to pin down: namely, "What does my pigeon actually

do during the race...?"

Attaching a GPS to your beloved pigeon could allow you to track its movements. But until now there hadn't been an affordable and easy to use GPS device that the average person could get their hands on. Enter SKYLEADER, manufactured by Taichung electronic component company Min Xin Technology.

Racing pigeons wear a metal ring on one of their legs, and this goes on top of that. Made from light plastic, it weighs

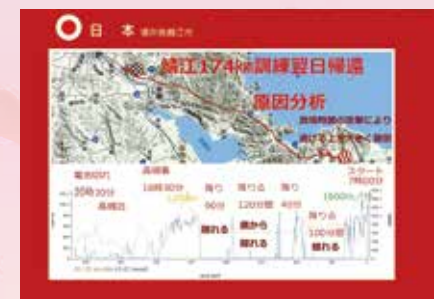
only 4 grams. After the race you can take the ring off the pigeon and read the data with a proprietary app, showing graphs of altitude, speed, distance and time. Rings can be purchased in packs of 5 for \$300 USD.

Min Xin Manager Lin says, "There's really no other product like it, so we're getting orders in from all over the world." As far away as Denmark an enterprising enthusiast has compiled the data collected via SKYLEADER into a paper. Pigeon racing is on fire right now!



SKYLEADER

An easy-to-use and affordable GPS tracker for racing pigeons. Though only 4g and with a diameter of 11.2mm, it is four times more durable than comparable products. IPX7 certified, the highest certificate for water proofing in the world. \$300 USD for a set of 5 (includes charger, data reader, and 5 dummy rings for training).



Visualize GPS Data with the Proprietary App

Load data on altitude, speed, distance, time, and route, and turn it into graphs with the proprietary app. Analyze the graphs to predict your pigeons' movements and create an ideal training regimen.

Lithium Batteries Built-In Won't Go Dead During a Race

If set to register positional data 3 minutes a point, the device can be used continuously for 12 hours on 1 charge. You can adjust the frequency of position registering to as high as every 2 seconds, depending on the race distance or training needs.

Doesn't Burden Flight Pigeons Hardly Notice It

The inside of the ring is thinner, with a thicker outside, a shape specially designed for pigeons. When the pigeons tuck their legs in while flying, the inner edge fits right up against their stomachs so it doesn't get in the way.



Person

Min Xin Technology Corp.
Production Manager
Sunny Lin

Brand



Brand that includes the race pigeon tracker SKYLEADER, created by Min Xin Technology Corp. The most recent model is SKYLEADER4, which is 15% smaller and lighter than the previous version. They develop both hardware and software, including the software used to analyze GPS data (Win/Mac).

Company

Min Xin Technology Corp.

CEO: YAN Zheng
Established: 2002
Industry: SD card testing, sale and manufacture of race pigeon GPS trackers.
Employees: 80 (2019)

<http://www.skyleader.tw/>





178 Degree Field of View for Total Immersion Below-Screen LED Gives Intuitive Game Feedback

Optix MPG27 Series Curved Gaming Monitor

With the popularity of e-sports on the rise and great things expected, the related market is kicking into gear as well.

"In 2019 there are 8 million people participating in e-sports, which is three times what it was last year. We're betting about 70% of them will become curved monitor users," says Mr. Lin, head of marketing for Taiwanese PC gaming leader MSI. And he sounds pretty confident.

The award-winning MPG27 Series

really gives a palpable sense that this is the dawn of the e-sports age.

With a refresh rate of 144hz and a response time of 1ms, it's perfect for fast paced games.

The curvature rating is 1800R and not only does the curvature give the image more depth, it also reduces eye fatigue compared to flat monitors. "With a curved screen, whether you're looking at the center or the edges, the distance to your eyes is the same right? Since

your eyes don't have to keep refocusing they don't tire as easily." (Mr. Lin)

Additionally there is an LED light just below the screen. This can be set to allow for intuitive feedback, such as having the light dim as your ammo runs low.

It's a product that meets users' needs, and it's been well received outside of the company too. "We're second in market share for curved monitors, and there's barely any daylight between us and first," says Lin, confidently.



Optix MPG27 series Curved Gaming Monitor

VA panel, 1800R - 27 inch, RGB LED, true color, response speed max 1ms, refresh rate 144hz, WQHD 2560x1440. Anti-flicker, low blue light.



Specs to Handle Impressive Visuals And Fast-Paced Game Developments.

Displays 144 images per second (refresh rate of 144hz). Screen takes 1ms to change colors (response time 1ms). For tense action games where one false input can lead to defeat, 144hz and 1ms are considered must-haves.



Adjust Monitor Settings Via On Screen Display

Turn on the OSD and you can adjust screen settings via keyboard and mouse. No need to touch any of the buttons on the monitor.



Intuitive Feedback Via RGB LED Below Monitor

Can display important in-game statuses with LED effects, such as dimming when health gets low. Uses SteelSeries GameSense technology developed by an American game peripheral maker.



Person

Micro-Star Int'l Co., Ltd.
SPB Product Marketing Manager
Ikari Lin

Brand



A worldwide gaming brand that is driving PC gaming and e-sports. Their R&D focus is confident designs, high performance, and innovative technology. Their main products include gaming laptops, graphic cards, motherboards, and desktop PCs. Heavily involved in pro gamer and e-sports sponsorship.

Company

Micro-Star Int'l Co., Ltd.

CEO: Charles Chiang
Established: 1986
Industry: Gaming PC design, manufacture and sales.
Employees: 2,000 (HQ, 2019)

<https://jp.msi.com/>



Mobile Gamers Rejoice! Introducing a Gaming-Optimized Smartphone

Gaming Smartphone: ROG Phone

The ROG Phone is the world's first gaming smartphone. Its developers—ASUS's gaming brand, Republic of Gamers (ROG)—boast that it was created "entirely in the name of victory."

The device comes with many features sure to tickle any gamer's fancy, including a sleek startup sound to get users in the gaming mood, a two-step cooldown mechanism to take the heat off the device while playing, and a function to disable push notifications when in the midst of battle.

Its impressive specs include a clocked-up CPU with a maximum of 2.96Ghz, a display refresh rate of up to 90Hz, and a response speed of 1ms. With this high processing power, gamers can even immerse themselves in an FPS on the go.

There are also various ways for players to customize their gaming experience. Accessories will allow users to attach a second screen or connect a gamepad to play using physical buttons. Players can also create an optimal gaming environment for themselves via the

management application, Game Center, where they can set the refresh rate and maximum CPU frequency per game.

The price is approximately 100,000 JPY(\$928 USD). Cynthia Teng, division director of system marketing at ASUS JAPAN, spoke positively about the phone, saying that it's an unprecedented success as a quality SIM-free device. She also spoke of wanting to further develop the gaming smartphone market.



The ROG Phone

A high-performance smartphone specialized in mobile gaming equipped with a custom octa-core CPU from Qualcomm® Snapdragon™845. It boasts 512GB of storage, 8GB of memory, full HD OLED display, and a high-capacity battery of 4000mAh.



Designed with comfort in mind, the AirTrigger will change how the game is played

The right side of the device is equipped with an AirTrigger, a touch sensor activated by ultrasonic waves. It operates similarly to a gamepad (with L/R buttons) when played horizontally, drastically improving the device's usability. Players can also use the USB port on the left side to charge while they play. The device has two speakers—one on top, and another on the bottom.



Features cooling via a copper heat spreader and a carbon cooling pad

High thermal conductivity copper was used in parts of the device to enhance its cooling ability, but users can attach an external cooling unit called "AeroActive Cooler" to further bring down the temperature.

Tap the X Mode button to optimize playability in an instant

Using the Game Center management application, players can adjust the CPU clock rate and screen refresh rate for each game to get the most out of their hardware. They can also free up memory being used for background tasks and allocate it to optimizing game data processing.



Utilize accessories for an even better gaming experience.

ASUS WiGig Display Dock

This wireless dock can transmit your phone's display and sounds to other devices, including PC monitors and TV screens. Even games with heavy processing have little to no screen lag between devices.



TwinView Dock

A unit with a built-in battery and additional monitor. Attach it to the ROG Phone to enjoy gameplay over two screens.



Person

ASUS Japan Inc.
System Marketing Division Director
Cynthia Teng

Brand



The ROG, or Republic of Gamers, is an ASUSTeK Computer brand created in 2006. With the concept of creating a community where gamers could gather, talk, and play together, they develop a range of products from motherboards to graphics cards and gaming smartphones.

Company

ASUSTeK Computer Inc.

Chairman: Jonney Shih
Founded: 1989
Industry: Manufacture and sales of computers, computer-related products, smartphones, etc.
Number of Employees: 17,000 (as of 2017)

<https://www.asus.com/jp/>





Take Your Camera Out on the Town! Capture Any Scenery That Strikes You

Digital Camera: CROZ Vanguard Camera

The CROZ Vanguard Camera is a luxury digital camera created by Taipei-based digital paper camera maker Paper Shoot, and Macau design group Hyle Design.

It features a refined and simple design: just press the shutter, no manual required. The concept is perfect for street photography and has fans among amateurs and pros alike.

At 8 megapixels the image quality is plenty for standard PC displays and

prints. In terms of size and weight, it's about the same as a cassette tape. Slot in a standard 4GB-SD card and 2 AAA batteries and you'll be ready to take approx. 2,000 pictures.

But one thing it does lack is the LCD on the back of most digital cameras. "You can't delete the photos you take then and there, and you have to wait until you get home to check them at all. We wanted to give the experience a pleasant analog feel," says Paper Shoot

founder George Lin, smiling.

Lin was the 8th-born child in a large family, and as he grew up he was disappointed to realize there weren't any photos of him as a boy. That led him to designing cameras, specifically friendly paper ones that could be easily used and bring people together, and establishing Paper Shoot. They're now in 16 countries worldwide and are also focused on camera instruction for children.



CROZ Vanguard Camera

A high-quality digital camera. Choose from various exteriors such as cypress or brass. Weighs just 90g with 2 AAA batteries. 13mm thick, 70mm tall, and 114mm wide. Includes SD card slot and microUSB port.

DIY Kit Lets You Experience the Fun of Assembly

There's also a kit on sale that lets you assemble the camera in 4 steps yourself, from the cover, circuit board and other parts. It retails for 6,980 NTD(\$223 USD).



Switch Lenses to Expand Expressive Possibilities

4 lenses (included in some higher-level models) are sold separately: wide-angle, fisheye, radial, and six-prism.

Choose From 4 Different Color Modes

You can choose from Classic, Black and White, Golden Memory, or Blue November when shooting. Choose black and white or sepia for a retro feel.

Classic



Black and White



Golden Memory



Blue November



NEW MODEL!

Release of a new, high-spec model

In July 2019, a new model is scheduled to be released boasting 13-megapixel image quality, the capability to take 10-second videos, and a time-lapse photography feature.



Person

Paper Shoot Technologies Inc.
Founder
George Lin

Brand



Digital camera brand started in 2013. They focus on a "less is more" concept, creating minimal and easy to carry cameras that are environmentally friendly. The exterior of their flagship camera is made from paper, and you can easily change the look or draw on it to fit your mood.

Company

Paper Shoot Technologies Inc.

CEO: George Lin
Established: 2013
Industry: Manufacture and sales of digital cameras.
Employees: 14 (2019)

<https://www.papershoot.com.tw>



PART 3

Factory Tourism: Stimulating and Scrumptious!

A recent trend in Taiwan has manufacturers renovating part of their factories to allow for observation tours, giving visitors a fascinating look at the inner workings of the manufacturing process. In Part 3, we highlight some of the best food industry factories sure to stimulate the mind and palate of business trippers.



Factory Tourism:
Stimulating and
Scrumptious!

TEA

T E A

A Ninety-year-old Tea House
Renovated Miraculously

Daxi Tea Factory



Savor Taiwanese tea amidst elegant architecture

Constructed in 1926, this venerable tea factory once produced a whopping six million tons of tea a year for the Nittoh Black Tea brand. Shut down for a period of time, it has now been renovated and reborn as a stylish tourist-oriented venue. Visitors can not only learn about the factory's architecture and the history of tea production in Taiwan, but even see the traditional machinery in action!

📍 No. 80, Ln. 732, Sec. 2, Fuxing Rd., Neighborhood 1, Xinfeng Vil., Daxi Dist., Taoyuan City
☎ +886-3-382-5089
🕒 Mon. to Fri. 10:00-17:00/Sat., Sun. & Public holidays 10:00-17:30
💰 100NTD (The amount is fully deductible in your purchase payments, or it can be redeemed for extra value gifts.)
🏠 The factory is about a 1-hour drive from central Taipei.
🌐 <http://www.daxitea.com/tw/>



1 The elegant exterior is modeled after the Darjeeling tea factories of India. 2 At the stylishly decorated factory shop, tea leaves grown at Daxi's own gardens and a host of tea accessories can be purchased. The multi-colored cans represent different gardens. 3 The tea factory, where the machinery is still operational to this day. 4 At the on-site café, you can enjoy sublime Taiwanese tea and desserts. 5 The second floor tea-drying area features a fusion of British, Japanese, and Taiwanese designs. 6 Tea Factory Black Tea (290 NTD)

Recommended Souvenirs



Daxi-Green Tea

Made from Daxi tea leaves grown by natural farming methods and produced on site at the Daxi Tea Factory, this fine green tea is naturally sweet with a refreshing flavor. (490 NTD for 70g)



Daxi-Red Jade Black Tea

A blend of Assam and locally-grown wild black tea leaves, this exquisite tea exudes a rich aroma of cinnamon and mint. Naturally grown and produced on site. (650 NTD for 70g)



Elite Assam Black Tea

Made with leaves from Taiwan's black tea heartland, Sun Moon Lake, its deep, rich aroma makes it perfectly suited for milk tea. (400 NTD for 50g).



Organic Black Tea

Made from organically grown tea leaves from the Sangxia District of neighboring New Taipei City, this tea features a lightly sweet aroma of fruit nectar. (400 NTD for 50g)



Factory Tourism:
Stimulating and
Scrumptious!
WHISKY

W H I S K Y

The Distillery that Turned Taiwan
into a World-famous Whisky Producer

King Car Kavalan Whisky Distillery



1

Taste the real thing at a new mecca for authentic whisky

Whisky aficionados unite! This distillery is the home of Kavalan, Taiwan's first whisky brand. Having already been honored with numerous world-class whisky awards, Kavalan shattered the long-time preconception that warm climates are unsuited to whisky production.

The distillery sits in a rural area, nestled amidst the mountains. Visit the spacious grounds, and you can see and experience first-hand just why Kavalan is taking the whisky world by storm. The guided tour begins with a video documentary, after which you'll have the chance to see the production line, stroll in the gardens, and of course, enjoy a sublime sip or two of the wares. The highlight of it all is undoubtedly the opportunity to blend a bottle of whisky all your own to take home as a souvenir—an experience not available anywhere else in Asia.

📍 326, Section 2, Yuan-shan Road, Yuan-Shan, Yi-Lan ☎ +886-3-922-9000 #1104
🕒 Distillery Tour (Chinese or English) Mon.to Fri. 9:00-18:00/Sat.,Sun.& Public holidays 9:00-19:00/New Year's Eve 9:00-17:00
📅 Booking is required for a group of more than 20 people. 🆓 Free
🚗 The distillery is about a 1-hour drive from central Taipei, or about a 15-min drive from TRA Yilan station.
🌐 <http://www.kavalanwhisky.com/>



2



3

Try Your Hand at Blending Your Very Own Whisky!

For 1,500 NTD, you can take part in this truly unique experience. Mix varieties of straight whisky by your desired ratio, and create a blend all your own—then take home a 300ml bottle of your creation as a souvenir!



There varieties of straight whisky and three empty glasses are provided for you.



Fully take in the flavor and aroma of each type of straight whisky.



Keeping the ratio in mind, and pour the whisky into a graduated cylinder.



Blend the varieties of straight whisky in the empty glasses, and taste the result.



Record the ratios and take tasting notes, then repeat the process until you find your ideal blend.



Pour the straight whisky provided into the bottle according to your perfect ratio.



Seal the bottle with a cork, and apply a label to it.



Your own personal blend of Kavalan whisky to take home!

1 The exhibition room provides an intuitive look at the whisky production process. 2 The distillery grounds feature abundant greenery, making it a pleasure to stroll through. 3 The water production plant attached to the distillery. The smooth and lightly sweet natural water of Yilan County which gives Kavalan its sublime flavor is available for purchase. 4 A whisky cask being charred. 5 This is a pot still, a distilling apparatus. 6 The spacious tasting room can accommodate 200 people. 7 A stylish bar counter sets the mood.



4



5



6



7

Recommended Souvenirs

KAVALAN Whisky Gift Set of 5



This set of 50ml whisky bottles makes a perfect gift, with the varieties of whisky contained within rotating by the season. (1,000 NTD for the Gold Medal Set, pictured.)

KAVALAN Single Malt Peaty Oak(distiller's bottle)



A smoky whisky with a rich peat aroma. The pot still-inspired design makes it perfect for decoration as well as drinking. (232 NTD for 50ml)



Factory Tourism:
Stimulating and
Scrumptious!
BUBBLE TEA

B U B B L E T E A

A Center of Tapioca Culture in
Taiwan's Idyllic Countryside

Kili Bay Pearl Milk Tea Cultural Center



Make your own tapioca milk tea amidst beautiful nature

This facility is operated by Shang Dao Food Co., a major Taiwanese agricultural and food supplier which built the world's first tapioca factory thirty years ago. Here, you can learn the ABCs of tapioca, and get hands-on with the production process. The building itself is also a unique architectural specimen, designed to exist in harmony with the flows of light, water, and air.

- 📍 No. 23, Dingqiang Road, Su'ao Township, Yilan County
- ☎ +886- 3-990-9966
- 🕒 Open Mon. to Fri. 9:30-17:30/Sat., Sun. & Public holidays 9:30-18:00
- 💰 Free (399NTD to join the DIY experience)
- 🚗 The Center is about a 1-hour drive from central Taipei, or about a 15-minute drive from TRA Su'ao station.
- 🌐 <https://www.kilibay.net/>



Recommended Souvenirs

Kili Bay Instant Milk Tea

This powder, an original product of the Cultural Center, can be used to make milk tea without adding syrup or milk. (280 NTD for 24 packets)



Tapioca Pearl

Taiwan-made black tapioca pearls original to the Cultural Center. Boil them for a couple of minutes and they'll take on the perfect chewy tapioca texture. (55 NTD for 300g)

- ❶ Tapioca milk tea served in a glass shaped like a light bulb.
- ❷ The architecture was designed to breathe in harmony with the nature around it, and features large windows and a leaf-shaped roof.
- ❸ The building sits by an estuary, and visitors can gaze out at the open sea.
- ❹ An exhibition room where you can learn about the raw materials, manufacturing process, and history from which tapioca was born.
- ❺ The on-site restaurant offers a buffet featuring locally grown vegetables.
- ❻ Registration for the do-it-yourself tapioca milk tea experience opens at 10 a.m. Reservations are limited.



Factory Tourism:
Stimulating and
Scrumptious!
MOCHI

M O C H I

A Food Education Pavilion Produced
by a Venerable Mochi Maker

Taiwan Mochi Museum



Experience Taiwan's unique take on a Japanese treat

Royal Family Food Corporation—the first company to import a Japanese mochi machine to Taiwan—established this museum to share the joy of mochi with local residents. You can learn about mochi's rich history and culture, and enjoy ingenious exhibits detailing the process by which mochi is made. Make a reservation via the museum's homepage to take part in a family-friendly do-it-yourself mochi making class.

- 📍 No. 3, Ziqiang 3rd Road, Nantou City, Nantou County
- ☎ +886-4-9226-1123
- 🕒 Mon. to Fri. 9:00-17:00/Sat. & Sun. 9:00-18:00
- 🚗 About a 40-minute drive from TRA Changhua station.
- 🌐 <http://www.taiwanmochi.com.tw>



Recommended Souvenirs

Mochi Choco Pie (Peanuts Flavor)

A sweet mochi rice cake filled with tasty Taiwan-made peanut paste and coated with chocolate. (100 NTD)



Mixed Mochi Sun Moon Lake

An assortment of three flavors of mochi treats: sesame, peanut, and red bean paste. (100 NTD)



Mochi Cake

A traditional mochi cake served at weddings consisting of mochi and red bean paste wrapped in a flaky pastry crust. (300 NTD)



20 Brands Making Smart Life a Reality / List of Companies



	English Company Name	Chinese Company Name	Industry	Introductory Page	QR
FOOD	Tatung Co.	大同股份有限公司	Designing, manufacturing and sales of machinery for home and industry	30	
	Mercuries Asia Ltd.	誠商行股份有限公司	Export of lifestyle goods, design and sale of wine accessories	32	
	Freser Int'l Corp.	老日光冷凍工業股份有限公司	Design, manufacture, sales, and importing of food & beverage equipment	34	
	Teco Electric & Machinery Co., Ltd.	東元電機股份有限公司	Manufacture of home appliances, electronic devices, IT, communications, etc	36	
WEARING	GadgetTek, Inc.	酷基科技股份有限公司	Design, manufacture and sale of IoT devices	38	
	Happy Island Tech Co., Ltd.	快樂島股份有限公司	Sports Electronic Device Development and Manufacture	40	
	Unite Creative Design Co., Ltd.	必和創意設計有限公司	Compression Sportswear Manufacture and Sales	42	
LIVING	Tonnet Telecommunication Int'l Co., Ltd.	通航國際股份有限公司	Design, manufacture and sale of extension telephone systems and Smart Building	44	
	Bintronic Enterprise Co., Ltd.	彬騰企業股份有限公司	Manufacture and sales of automatic doors and smart blinds and curtains	46	
	Bionime Corp.	華廣生技股份有限公司	Manufacture and sales of medical devices and services, focused on blood glucose monitors	48	

	English Company Name	Chinese Company Name	Industry	Introductory Page	QR
TRANSPORTATION	Horizon Yacht Co., Ltd.	嘉鴻遊艇股份有限公司	Manufacture and sales of cruiser yachts	50	
	Reduce Carbon Energy Develop Co., Ltd.	低碳動能開發股份有限公司	Manufacture and sales of motorbike and car battery related products	52	
	Nietzsche Enterprise Co., Ltd	尼采實業股份有限公司	Development, manufacture, and sales of communication devices, sensors, and IoT devices and management software for parking lots	54	
EDUCATION	BXB Electronics Co., Ltd.	卡訊電子股份有限公司	Video Conferencing, Recording & Livestreaming, and Smart Campus Solutions	56	
	AVer Information Inc.	圓展科技股份有限公司	Manufacture and sale of document cameras, video conferencing equipment, and smart classroom devices	58	
FUN	Innolux Corp.	群創光電股份有限公司	LCD manufacture and sales	60	
	Min Xin Technology Corp.	旻新科技股份有限公司	SD card testing, sale and manufacture of race pigeon GPS trackers	62	
	Micro-Star Int'l Co., Ltd.	微星科技股份有限公司	Gaming PC design, manufacture and sales	64	
	ASUSTeK Computer Inc.	華碩電腦股份有限公司	Manufacture and sales of computers, computer-related products, smartphones, etc.	66	
	Paper Shoot Technologies Inc.	紙繪科技股份有限公司	Manufacture and sales of digital cameras	68	

2019 Taiwan Excellence

GOLD AWARD List



65,000 DWT Semi-submersible Deck Cargo/Heavy Lift Carrier

H.1057

CSBC Corporation, Taiwan

Intelligent Gantry-type Linear Motor Drive 5-Axis Milling Machine

HM4030L

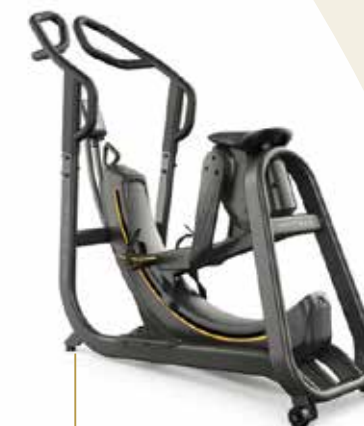
Ching Hung Machinery& Electric Industrial Co., Ltd.



6.17" Deep Sensing Technology - Integrated In-cell 3D Touch LCD

PD062JC-02A

Innolux Corp.



S-Force Performance Trainer

S-Force Performance Trainer

Johnson Health Tech. Co., Ltd.



TRANCE E+ SX

TRANCE E+ SX Pro

Giant Manufacturing Co., Ltd.

Robotic Endoscope Holder

MTG-H100

Hiwin Technologies Corp.



Metal Powder Bed Fusion Machine

AMP-160

Tongtai Machine & Tool Co., Ltd.



Seadragon XLR under water ROV system

Seadragon XLR

Thunder Tiger Corp.

One Twenty

One-Twenty 8000/6000/800/XT Edition/600/500/400

Merida Industry Co., Ltd.



87-feet Luxury Motor Yacht

FD87

Horizon Yacht Co., Ltd.

2019 Taiwan Excellence

100th Anniversary Cooker

TAC-11V-MW

Tatung Co.



Smart Electric Road Bike

BESV JR1

Darfon Innovation Co.

Absolute Resolver Direct Drive Motor System

cre

Hiwin Mikrosystem Corp.



TIME WARP TT

TIME WARP TT

Merida Industry Co., Ltd.

Optix MPG27 Series Curved Gaming Monitor

MPG27C0 / MPG27C

Micro-Star Int'l Co., Ltd.



GPS Pigeon Identification Tracker Ring

SKYLEADER

Min Xin Technology Corp.

Propel Advanced SL Disc

Propel Advanced SL Disc

Giant Manufacturing Co., Ltd.



5 Axis Machining Center

UH-500

Jeenxi Technology Co., Ltd.

PowerGear 60C USB-C Laptop Adapter

ADP-60BW B/ADP-60BW W

Delta Electronics, Inc.



Epixor XT Spinning Reel

20 / 30 / 40 / 50

Okuma Fishing Tackle Co., Ltd.

4K UHD Smart Home Cinema Projector

UHD51A

Optoma Corp.



Touchscreen Smart Twin Gas Range

G2929G

Taiwan Sakura Corp.

SIMLEAD Safety Drawer System with Push Open, Soft-Closing and VSD

1N86/1L86/MABA/MACA/MADA/MAEA/MABB/MACB/MADB/MAEB/MABC/MACC/MADC/MAEC/1N86-VABBE8AZ0S/F100WB0-A/1N86-GM10E1AZ0S

King Slide Works Co., Ltd.



Adjustable Electric Wine Aerator

MV7

Mercuries Asia Ltd.

U5

U5 Vogue+

Luxgen Motor Co., Ltd.



Full LED Motorcycle Tail Lamp

91-5259

TYC Brother Industrial Co., Ltd.



Miniature Ballscrew

Super Z

Hiwin Technologies Corp.

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WS-2864PVR

PLANET Technology Corp.



SIMO Negative Pressure Wound Therapy System

NP-1-1

BenQ Materials Corp.



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CA-1J9-00F9WN-00

Thermaltake Technology Co., Ltd.

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