



ANNUAL REPORT

English





VCCI Council

Description

The purpose of this corporate body is to promote, in cooperation with related industries, the voluntary control of radio disturbances emitted from multimedia equipment (MME) on the one hand, and improvement of robustness of MME against radio disturbances on the other hand, so that the interests of Japanese consumers are protected with respect to anxiety-free use of MME.

» Description

- Formulate basic policies on voluntary control of electromagnetic disturbances emitted by multimedia equipment
- Coordinate the interest of member organizations and liaise with the government and related agencies
- Receive and file Conformity verification report with the voluntary control standards and issue reception acknowledgement in return
- Carry out market surveillance (with sampling test commissioned to third party testing laboratories)
- Regularly review the suitability of the Technical Requirements for necessary revisions by research and experiments and share the results with members

- Hold measurement skills courses to prepare members' engineers for adequate conformity assessment
- Study trends in overseas EMC regulations and seek opportunities for mutual recognition agreement
- Examine credentials of measurement laboratories and facilities based on the measurement facilities registration system
- Do PR activities for general consumers and reach out to potential companies and associations for encouraging them to join VCCI
- Administer other programs for effective operations of the voluntary control

> INDEX April 2020- March 2021

» Greetings

Thank you for your continuing support for the activities of VCCI Council.

This is a report on our activities in FY 2020.

The spread of COVID-19 has made an enormous impact on the world. We offer our deepest condolences to those who have lost loved ones and hope for a swift recovery of all those inflicted by this terrible pandemic.

Due to the COVID-19 pandemic, VCCI has adopted a teleworking approach. We apologize for the inconvenience this may be causing some of you. However, we also believe that the online working environments that we put in place to promote teleworking can actually provide some additional convenience for our members. For FY 2021, we are looking at ways to restart practical hands-on trainings (canceled in FY 2020) if the COVID-19 status permits, while continuing the teleworking approach. If you have any suggestions for improvement, or any general comments, feel free to contact us.

In order to curtail the spread of novel coronavirus infections, a wide variety of approaches have been implemented in full scale. These include limited outdoor activity, and widespread implementation of home shopping, telework, telemedicine, and remote learning. Many of these are expected to take root in our society, as part of the New Lifestyle. Technology that supports such efforts is communication systems that exchange data, enhanced by artificial intelligence (AI) and robots.

In October 2020, CEATEC 2020 (the world's largest general exhibition of a "super-smart society" (Society 5.0) with the "CEATEC – Toward Society 5.0 with the New Normal" theme) showcased many highly creative and marketable ideas for promoting digital transformation in our society under the New Normal. Such efforts included technologies, products, services, software, components, and devices that are expected to contribute to advancements in lifestyle, society, business, and industry for the next generation.

Meanwhile, as networks become increasingly sophisticated and use of radio communication diversifies, we are tackling the ever-increasing importance of ensuring security and protection of personal information, as well as VCCI's role in developing clean electromagnetic environments.

Since its inauguration in 1985, VCCI (formerly the Voluntary Control Council for Information Technology Equipment) has been engaged in activities to prevent failures in IT devices caused by interference, and protect the profits of Japanese consumers using electrical and electronic devices.

VCCI Council activities are driven by the trust inspired by the VCCI mark. Specifically, our operation is underpinned by our three "pillars" of regulation: our system for registering measurement facilities, our system of self-declaration by member-filed conformity verification reports, and our fair market sampling tests. I am convinced that the VCCI mark could only earn its trust thanks to all of our members' earnest support and excellent compliance with our regulations. Going forward, we will continue to help build clean electromagnetic environments through these activities.

The international standards for multimedia device emissions, CISPR 32 Edition 2, was issued in March 2015, on which the Information and Communications Council of the Ministry of



VCCI Council President: KAWAKAMI Keiichi

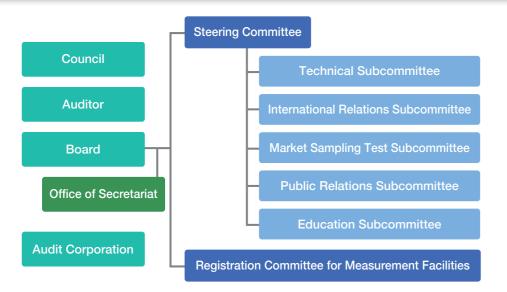
Internal Affairs and Communications reported in December 2015. The standards for multimedia device emissions were issued to integrate the individual standards for IT devices and AV equipment. VCCI Council issued the new VCCI regulations based on these new international standards in November 2016, and has begun putting them into practice. As of the end of March 2019, the period allowing overlap between the new and old rules came to a close. As of April 2019, only the new rules apply. As the volume of conformity verification reports has increased, and market sampling tests reveal that the rules are being observed in most cases, we assume that all VCCI members have made a smooth transition to the new rules. We will continue to enhance the guide for the rules and promote ondemand dissemination of information.

Improving awareness of the VCCI mark worldwide and contributing to international standards for electromagnetic interference are an important part of VCCI Council work in promoting voluntary control. Every year, VCCI holds an International Forum, inviting speakers from overseas electromagnetic interference regulatory authorities. VCCI also runs overseas workshops, and exchanges views with overseas regulatory authorities. In FY 2020, these activities were managed through on-demand distribution of videos and other media/ materials. Annually, we compile research results obtained through our membership activities into papers for presentation at relevant overseas conferences. One such technical paper was published in an IEEE journal in fiscal 2020. VCCI Council helps to enact international standards by continuously dispatching its experts to committees involved with CISPR. We believe that these kinds of activities have improved awareness of VCCI, both overseas and in Japan. Domestically, VCCI has held an on-demand seminar as the Info-Communication Promotion Month event hosted by the Ministry of Internal Affairs and Communications. VCCI has also provided technical training to engineers working with electromagnetic interference and improved awareness of the VCCI mark through relevant online training courses, promotion of educational activities, and PR at technology exhibitions.

With the cooperation of our members and of relevant government agencies and groups, we hope to continue addressing trends in technological innovation in CPS and IoT which will be integral to radio applications, and their social implementation, thereby helping to build clean electromagnetic environments as a foundation for a CPS and IoT society. We will make sure our activities prove meaningful to our members, and in turn to Japanese consumers.

We hope you will continue to support us going forward.

» Organization



Board of councilors

■ Chairman of Councilor

TOKUDA Masamitsu

Honorary Professor, Tokyo City University; Visiting Co-researcher, Graduate School of the University of Tokyo

IZUMI Kazuo (until June 29, 2021)

Previous Secretary General, Institute for the Information Industry

Councilor

OHYA Akira

Formerly of the Japan Broadcasting Corporation

Councilor

KOGA Ryuji

Honorary Professor, Okayama University

Councilor

FUJIWARA Osamu

Honorary Professor, Nagoya Institute of Technology; Visiting Professor, University of Electro-Communications

Councilor

OHSAKI Hiroyuki

Researcher and Professor, Graduate School of Frontier Sciences, The University of Tokyo

Councilor

KANEKO Kazuo

Former President, The Association for Overseas Technical Cooperation and Sustainable Partnerships

Councilor

HASEYAMA Miki (from June 29, 2021)

Professor, Vice President, Hokkaido University; Dean and Professor, Faculty of Information Science and Technology

Councilor

FURUTANI Takeshi

Executive Director, Japan Electrical Safety & Environment Technology

Directors and auditors

President

KAWAKAMI Keiichi

Japan Electronics and Information Technology Industries Association

Director

IMAI Masamichi (until June 29, 2021)

ISHII Yoshinori (from June 29, 2021)

Communications and Information Network Association of Japan

Auditor

SHIBATA Satoshi

Formerly of Panasonic Corporation, former Chairman of VCCI Steering Committee

Director

TANAKA Hirotoshi

Japan Business Machine and Information System Industries Association

■ Executive Director

ODA Akira

VCCI Council

Auditor

HASEGAWA Hiroaki

Formerly of DOCOMO Datacom, Inc.

Accounting Auditor

ERNST & YOUNG ShinNihon LLC (until June 29, 2021) / Miogi Audit Corporation (from June 29, 2021)

» VCCI Council Committees and Activities

Steering Committee

Oversees subcommittees' activities and endorses their resolutions, handles general managerial matters of VCCI Council, and makes proposals to the Board of Directors.

General operations

(1) Transition to the new rules of operation based on CISPR 32 Edition 2

The new "Rules for Voluntary Control Measures" based on CISPR 32 Edition 2 were enacted and enforced in November 2016. Acceptance of reports of compliance based on the old V-2 Rules for Voluntary Control Measures terminated at the end of March 2019. FY 2020 was the second year since the period allowing overlap between the new and old rules ended. Judging from the volume of reports of compliance and other documents, we can assume that VCCI members have made a smooth transition to the new rules, which are now firmly established.

(2) Dissemination and awareness-raising activities on the new rules of operation based on CISPR 32 Edition 2

In FY 2020, we modified the guidance for creating test reports. Application of the VCCI 32-1-A:2020 "guidance for creating test reports (for VCCI-CISPR 32)" started from December 1. The VCCI seminar, which is usually held in our conference room every May as the Info-Communication Promotion Month event hosted by the Ministry of Internal Affairs and Communications, was held on demand (64 applicants) through our website from June 8 to 15. Based on this experience, we hosted VCCI Seminar 2020 through our website from October 12 to 23, introducing the activities of VCCI and offering latest news to our overseas members. 52 members (including 13 from Chinese Taipei, 11 from China, 7 from South Korea, and 6 from the U.S.) participated in the Seminar.

(3) MOU operation and talks with overseas institutions

Ongoing MOU operations have been conducted between Japan and the U.S. to mutually accept data measured in laboratories in both countries. As of the end of March 2021, the laboratories registered using this system numbered 78 in the U.S. and 59 in Japan. For FY 2020, to exchange information with the three U.S. laboratory accreditation bodies(A2LA, NVLAP, and ANAB), we invited them to VCCI Seminar 2020 mentioned above instead of the usual face-to-face meetings. In November 2020, we participated in the REDCA meeting (held online), where we collected reference information on trends in market sampling tests and on international standard setting

(4) Enhancement of IT infrastructure security and compliance

VCCI Council has started using SQL servers to speed up and enhance security of its mission-critical systems. The Council is also enhancing infrastructure for teleworking to enable working from home and introducing electronic meeting systems in the face of current circumstances.

(5) Activities with academic associations (adoption and posting of five papers)

In FY 2020, a paper was adopted in the IEEE journal and four papers were posted to international EMC symposiums

(a) Technical paper adopted in the IEEE journal

- "Consideration to Terminating Condition of Mains Cable for Radiated Emission Measurement Caused by Different Disturbance Sources" (b) 2020 IEEE EMC, USA (August 2020, held online)
- · "Characteristics of Radiation Emission from Mains Cable recognized by being terminated with Common Mode Impedance Stabilization Device (c) EMC Europe 2020 (September 2020, held online)
- ·"A confirmation into how a CMAD affects MIU in regard to AE termination impedance in noninvasive measurement" (special session due to cancellation of APEMC 2020)
- "Investigating Power Line Termination Device Effectiveness in Regards to Radiated Emission Measurement Reproducibility in Consideration of Two Disturbance Sources and AC Mains Cable"
- · "A confirmation of necessity on 10 dB-attenuator attachment to the measurement port of AANs"

Technical Subcommittee

Sets and maintains the VCCI Technical Requirements covering standardized EMI limits, measurement methods, and conformity verification procedures which underpin the scheme of voluntary control of electromagnetic interference to preserve sustainable radio environments surrounding multimedia equipment.

Standards setting

(1) Activities for proposing international standardization

VCCI Council participated in EMC-related committees in Japan and overseas, promoting activities to reflect its opinions in the short-term and long-term challenges raised as next term's revisions (FY 2022) to the CISPR 32 standard. VCCI Council also promoted activities to propose the international standardization of power cable termination conditions at the CISPR, SC-A&I, and JAHG6 conferences.

First, the Council proposed to add the power cable termination conditions (devices) for EUTs for radiated emission measurement to the draft CD for CISPR 32 Edition 3.0. In addition, we submitted a CD to SC-A/I JAHG6 for CISPR 16-1-4 Ed.5.0 publication with the addition of power cable termination devices, along with a suggestion in the form of a contributed document for international standardization of such devices. Furthermore, the results of international RRT for international standardization of power cable termination devices (conducted in FY 2019) were reported by the Council (with the aid of others).

(2) Holding of a technical symposium

A technical symposium was held on demand from February 8 to 12, 2021, from the viewpoint of preventing the spread of the new coronavirus infection, in order to share the results of the Technical Subcommittee's efforts with VCCI members. Theses released by international academic associations were also explained at the symposium. There were about

(3) Main activities of the Technical Subcommittee and

(a) Revision of guidance for rules

A modified guidance for creating test reports (for VCCI-CISPR 32) was issued. Changes were made to the EUT operating conditions regarding power supply voltage during measurements and the method of calculating limits for the results of measurements of radiated emissions over 1 GHz.

(b) CISPR Project Working Group

The WG discussed revisions to the CISPR 32 standard for Edition 3.0 and a contributed document and work documents for CISPR SC-A/I JAHG6. Based on the result of the deliberations, VCCI Council submitted comments. In addition, experts who attended CISPR conferences reported to WG members on what was discussed, and shared relevant information.

(c) Radiated EMI WG

CISPR 16-1-1 allows use of FFT-based measuring instruments. The WG compared the measurement procedures and methods between the conventional and FFT-based measuring instruments. The issues and points to be noted in using FFT-based measuring instruments were reported to VCCI members at the technical symposium.

(d) Conducted EMI WG

In CISPR 16-1-2 Edition 2.1, which is referenced by CISPR 32 Edition 2.1, Artificial Networks (ANs) are defined and 150-ohm $\Delta\textsc{-ANs}$ are added as ANs for measuring emissions from power ports. The WG checked differences in measurement results between 150-ohm Δ -ANs and conventional V-AMNs, and determined whether 150-ohm Δ -ANs should be used for such measurements. The results were reported to VCCI members at the technical symposium.

(e) Antenna calibration and Site validation WG

In regard to the methods for calibrating loop antennas used to measure radiated emissions below 30 MHz, the WG compared and verified three of the calibration methods specified in the standards using a reference loop antenna. The WG checked the extent of differences in antenna factors among different antenna calibration methods and points to be noted for each calibration method. The findings were reported to VCCI members at the technical symposium.

(f)VHF-LISN Working Group

The WG reported, to VCCI members at the technical symposium, on verification results of the RRT initiated by VCCI Council and evaluated by the Joint Ad Hoc Group (JAHG6) (consisting of CISPR SC-A and SC-I) for promoting VHF-LISN standardization. The WG also reported on content of the paper published in the 2020 IEEE journal, and content of papers posted to international EMC symposiums.

- · CD : Committee Draft
- · EUT : Equipment Under Test
- · RRT: Round Robin Test
- · VHF-LISN: Very High Frequency Line Impedance Stabilization Network





Technical symposium

International Relations Subcommittee

Liaises with related organizations overseas to appropriately communicate VCCI Council activities, while obtaining information on EMC-related standards and regulations of countries and regions across the world. This information is then relayed to members in order to optimize VCCI Council activities.

Overseas situational awareness activities

(1) International Forum

From March 29 to April 2, 2021, the VCCI International Forum 2021 was distributed on demand. Guest speakers were invited from the EU Commission, BEIS (UK), GSO (Saudi Arabia), and MIT (Vietnam) to give talks on the latest news in various countries. Applications were submitted from 212 members in Japan and 58 members overseas.

(5) Update to the world ITE standards table

A survey on the status of emissions standards and immunity standards was held in 25 countries including Japan, the U.S., Europe, China, Russia, and Australia, and results were published on the website in July 2020.

(3) Provision of updates to members regarding trends in EMC regulations

Survey information on world EMC trends was entered into a database, for provision to members. Updates were made as needed, starting from April 2016. "Survey of Trends in World EMC Regulations" was last updated in March 2021.

(4) Overseas surveys

For FY 2020, overseas surveys were canceled due to the COVID-19 pandemic.

NOTE

- \cdot BEIS : Department of Business, Energy & Industrial Strategy
- GSO: GCC Standardization and Organization
 MIT: Ministry of Information and Technology
- Will . Willist y of Information and Tech



GSO MIT International Forum

Market Sampling Test Subcommittee

Checks if reports of compliance filed to VCCI Council are conducted properly. Pass or fail is determined based on the results of measuring market samples in designated testing laboratories.

Market surveillance

(1) Market sampling test

Market sampling tests were conducted in accordance with the Rules for Voluntary Control Measures. A total of 100 products were tested (of which 45 were loaned and 55 were purchased), and products included personal computers, peripheral terminals, digital cameras, and LAN-related devices. Of the 100 products, reports of compliance were filed based on the VCCl 32-1 new rules for 91 products. The results are shown in Table 1. In the first round of judgments, 98 of

100 products passed, and two failed. Of the two failed products, one responsible VCCI member admitted to failing after detailed investigation into the product's conformity with the rules. The other failed product subsequently passed after detailed investigation. In the final round of judgments, 99 products passed and one product failed. Information on the failed product (such as the company name, model name, and other details) was published in "VCCI Dayori" in June 2021 with the consent of the member in question

Sampling tests found no serious violation. In the course of the tests, all VCCI members were very cooperative in complying with our requests such as submitting test reports. We believe our members are observing the rules diligently as always.

Table 1 Results of Market Sampling Test

	Tests on loaned samples				Tests on purchased samples				
Quarter	I	I	Ш	IV	I	I	Ш	IV	Total
Passed	10	10	9	15	14	13	17	11	99
Failed	1	0	0	0	0	0	0	0	1
Total	11	10	9	15	14	13	17	11	100

(2) Document Inspection

40 document inspections were performed. Test reports filed with reports of compliance were inspected, and 76 issues were identified. Of the 76, three were insufficient test conditions, resulting in members performing additional tests. Revised test reports were reexamined, and it was confirmed that the results satisfied the standards. In regard to two products with inappropriate VCCI marks or warning statements on the products and six products with inappropriate warning statements in instruction manuals, the relevant VCCI members were notified to take corrective measures, and the corrections were confirmed.

Test reports were also inspected for 99 products subjected to sampling tests (the relevant VCCI members agreed to let VCCI perform tests and had already filed test reports along with reports of compliance). When the test reports were inspected, seven documents were found with insufficient test conditions. Of the seven reports, three were on ports that newly became subject to testing in the VCCI-CISPR 32 Technical Requirements. Sampling tests were conducted for 99 products, including those previously tested with insufficient test conditions. It was confirmed that all products satisfied the standards. In regard to two products with inappropriate VCCI marks on the products and four products with inappropriate warning statements in instruction manuals, the relevant VCCI members were notified to take corrective measures, and the corrections were confirmed.

(3) Survey of use of the VCCI mark in the market

A fact-finding survey was conducted on the use of VCCI marks in the market (1,145 models from 76 members) by checking store shelves of mass retailers. The survey found that 98% of models with filed reports of compliance had VCCI marks on them. For the remaining 2%, we could not identify VCCI marks because the products were mockups or electronically displayed. In regard to VCCI-member products with VCCI marks, we identified nine companies selling products with VCCI marks which were not supposed to be on the products according to the filed information. A secondary survey revealed that member products with inappropriate VCCI marks were caused by members forgetting to file reports of compliance (six companies) and difficulty in matching model numbers shown on the nameplates of actual products to filed model numbers listed in the submitted reports of compliance (three companies). The former six companies filed reports of compliance after the survey.

(4) Improvement activities

We analyzed the results of checking 40 test reports subjected to document inspection and test reports of 100 products subjected to sampling tests in FY 2019. To improve the VCCI 32-1-A guidance for creating test reports, we submitted an improvement plan to the Technical Subcommittee for the items that many VCCI members failed to comply with in test reports. When we analyzed the results of checking test reports subjected to document inspection and test reports of products subjected to sampling tests in FY 2020, the top three issues were identical to those of FY 2019. In December 2020, a revised version of the guidance for creating test reports was issued. We hope this new guide will improve the quality of test reports.

Public Relations Subcommittee

Promotes awareness of VCCI Council and its activities, for example by working as creator and admin of the VCCI Council website, issuing the seasonal newsletter "VCCI Dayori" and annual reports in Japanese and English, creating and distributing PR brochures and calendars, and participating in exhibitions in Japan and abroad.

Public relations activities

(1) TECHNO-FRONTIER Virtual Exhibition 2020 (from September 8 through 18, held again from September 28 through October 2)

First online exhibition for TECHNO-FRONTIER. Materials and videos were posted in virtual booths.

466 visitors to the VCCI booth including 62 questionnaire respondents.

(2) CEATEC ONLINE 2020 (from October 20 through 23, archive posted from October 24 through December 31) First online exhibition for CEATEC. Materials and videos were posted

in virtual booths.

956 visitors to the VCCI booth including 25 questionnaire respondents.



Virtual booth image

(3) Virtual TECHNO-FRONTIER 2021 Winter (from February 2 through 12)

Second online exhibition in FY 2020. 146 visitors to the VCCI booth including 55 questionnaire respondents.

(4) Illuminated billboard advertising

To raise awareness of the VCCI mark, VCCI Council continued to post illuminated billboard advertisements in JR Akihabara Station and JR Osaka Station.

(5) Advertising in the Tokyo Metro Hibiya line (train cars passing through Tobu Railway)

VCCI continued to post door-window stickers in Tobu Railway's 70000-series train cars which also run on the Tokyo Metro Hibiya line.

(6) Video advertisements for TV sales at mass retailers From March 2016, a 30-second video advertisement on the VCCI mark was continuously broadcast on TV sales floors in 20 Bic Camera stores across Japan, as PR for general users and mass retailer staff. Beginning in FY 2020, two versions of the video are being broadcast (in Japanese with English subtitles and in English with Japanese subtitles).

(7) Issuing of the newsletter "VCCI Dayori" and annual reports

VCCI Council issued "VCCI Dayori" (Japanese and English versions) No.136 to No.139, and published them on the VCCI Council website. The 2019 annual report (Japanese and English versions) was also issued in August 2020 and posted on the website.

(8) Creation of the 2021 desktop calendar and novelty notebooks

The calendar and notebooks were created for handout at future exhibitions and to visitors to the VCCI Council office.

Education Subcommittee

Educates and trains EMC managers and measurement engineers on VCCI rules and requirements while improving measurement techniques, by organizing technical courses and seminars.

Technical training seminars

Education and training seminars were held to disseminate VCCI operational rules and improve measurement techniques among member EMC managers and measurement engineers. For the first half of FY 2020, all education and training sessions were canceled due to the COVID-19 pandemic. In the second half of the year, classroom lectures were held online (live streaming).

(1) Holding of online education and training sessions (live streaming)

For the first online education session, we started small with ten attendees. Before the session, we checked the status of Internet connection to resolve concerns of the attendees. During orientation at the beginning of the session, to build rapport between the lecturer and attendees (and create an atmosphere where the attendees could feel free to ask questions), both the lecturer and attendees introduced themselves with their faces on display and talked about their work and why they chose to participate in the session. At the end of the session, the lecturer answered additional questions and asked the attendees about impressions on the session in general.

All three online sessions were lively with ten to 14 questions raised in each session. According to the impressions expressed by attendees at the end of sessions and after-session questionnaires, there was no problem with sound, images, or communication. All attendees supported live streaming and we consider it to have been a success.

(2) Details of education and training courses held in FY 2020 (a) The basic technique of EMI measurement

This was a training course for beginner measurement engineers to acquire basic knowledge. One session was held in November 2020, with certificates of attendance given to a of 11 attendees.

(b) The level up of the EMI measurement technique

The purpose of this course was to deepen understanding of correct automatic and manual measurement of radiated emissions. One session was held in March 2021, with certificates of attendance given to 10 attendees

(c) EMI measurement instrumentation uncertainty (MIU)

The purpose of this course was to teach how to perform tests based on the VCCI-CISPR 32 "Technical Requirements" and calculate measurement instrumentation uncertainty (MIU), which is mandatory in test reports, based on the VCCI 32-1-3 "Measurement Instrumentation Uncertainty". One session was held in March 2021, with certificates of attendance given to 15 attendees.

NOTE

MILL: Measurement Instrumentation Uncertainty





Live streaming screen

Secretariat office during live streaming

Registration Committee for Measurement Facilities

Inspects VCCI members such as measurement facilities against the VCCI requirements, and determines the validity of their membership based on the results. This ensures that conformity verification is fulfilled for EMI measurement sites and instruments.

Operations such as measurement facilities registered for inspection (measuring site registration operations)

The status of registrations this fiscal year is shown in the following section. Registrations are effective for a period of three years, and those who wish to stay members renew their registration every three years.

(1) Number of actually registered facilities in FY 2020

Number of facilities registered via inspections: 448 (of which 337 were those renewed)

Category of Measurement Facility	Number of Registered Facilities	(FY 2019)	
Radiated emission (below 1 GHz)	136	(122)	
Mains port conducted emission	113	(106)	
Telecommunication (wired network) port conducted emission	100	(85)	
Radiated emission (above 1GHz)	99	(96)	

 Number of registered laboratories accredited by accreditation bodies: 91

2) Total number of registered facilities (as of March 31, 2021)

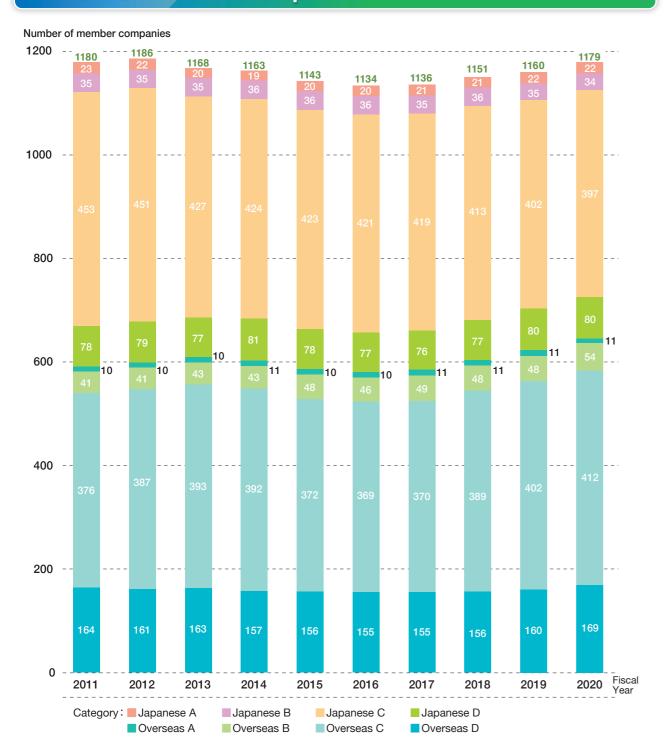
• Total number of facilities registered via inspections: 1,185

Category of Measurement Facility	Number of Registered Facilities	(FY 2019)
Radiated emission (below 1 GHz)	324	(322)
Mains port conducted emission	305	(308)
Telecommunication (wired network) port conducted emission	259	(253)
Radiated emission (above 1GHz)	297	(280)

 Number of registered laboratories accredited by accreditation bodies: 137

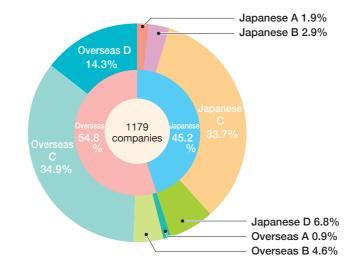
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» Trends in Membership



Category	Applicable to -
A members (regular members)	Chairmen and Vice Chairmen of the three groups constituting VCCI (JEITA, JBMIA, CIAJ) and equivalent companies (companies that file 70 or more conformity reports a year)
B members (regular members)	Companies that file 10 or more conformity reports a year
C members (regular members)	Companies that file fewer than 10 conformity reports a year
D members (supporting members)	Companies that do not file conformity reports, or do not ship products (mainly measurement facility companies or companies that only collect information)

» Composition of Members



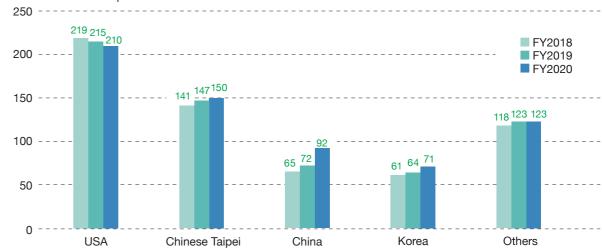
Member category	Number of Members	%
Japanese A	22	1.9%
Japanese B	34	2.9%
Japanese C	397	33.7%
Japanese D	80	6.8%
Overseas A	11	0.9%
Overseas B	54	4.6%
Overseas C	412	34.9%
Overseas D	169	14.3%
Total	1179	100%

» Composition of Overseas Members

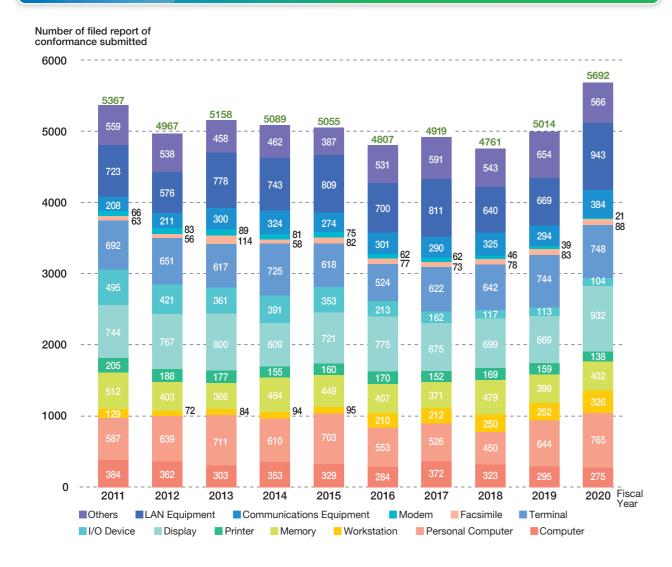


Country or Region Name	Number of Members
USA	210
Chinese Taipei	150
China	92
Korea	71
Others	123
Total	646

Number of member companies



>> Trends in Number of Filed Conformity Reports, by Product

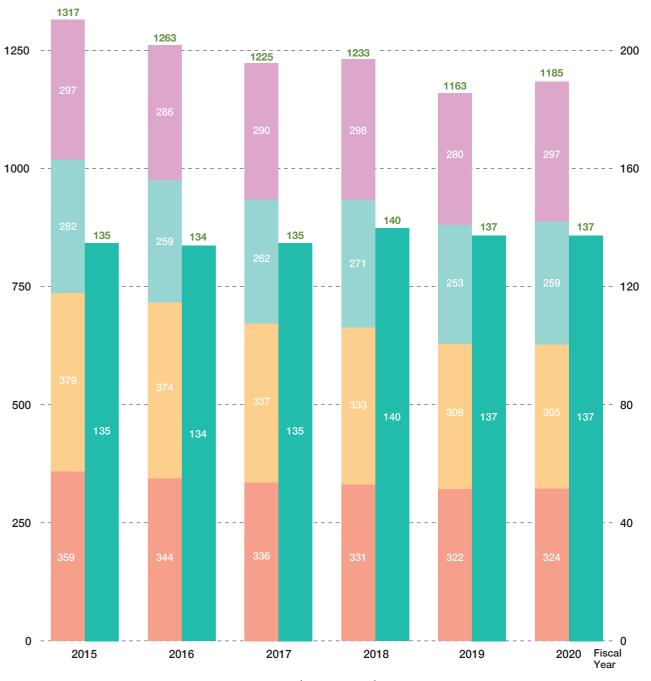


>> Trends in Market Sampling Test Results



>> Trends in the Total Number of Registered Measurement Facilities and Laboratories as of the Fiscal Year End





- Radiated emission measurement facilities (above 1 GHz)
- Telecommunication (wired network) port conducted emission measurement facilities
- Mains port conducted emission measurement facilities
- Radiated emission measurement facilities (below 1 GHz)
- ■The number of registered testing laboratories accredited by accreditation bodies

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» VCCI Council Member List

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	Regular Members					
<japanese></japanese>						
No.	Company Name					
	[A]					
2323	A.T. Works, Inc.					
2478	A2 Corporation					
1355	ABIT CORPORATION					
3873	Acco Brands Japan K.K.					
1882	ADVA Optical Netwoking Corp.					
3915	Advance Connecting Technologies					
35	ADVANTEST CORPORATION					
3950	Aggregate., co. ltd					
47	AIPHONE CO., LTD.					
222	AISIN SEIKI CO., LTD.					
2335	ALAXALA Networks Corporation					
459	ALEXON CO., LTD.					
1317	ALF INC.					
231	Allied Telesis K.K.					
3357	ALNETZ CO., LTD.					
76	ALPS ALPINE CO., LTD.					

147 APRESIA Systems, Ltd. 3047 Array Corporation 4051 Asuka Solution Company Limited 1489 ATM Japan, Ltd. 2655 Atmark Techno, Inc. 3532 AUI Co., Ltd. 1478 Avava Japan Ltd. 1147 Axis Communications K.K.

AOPEN JAPAN INC.

ANRITSU CORPORATION

[B] 2321 Barracuda Networks Japan K.K.

3682

BILLCON CORPORATION 736 2993 BIOS Corporation 2957 Bktel Pacific Rim (Japan) Inc.

3477 Benesse Corporation

2683 BMT

913 **Brains Corporation**

21 Brother Industries, Ltd. BUFFALO INC.

[C]

3910 Canare Electric Co., Ltd. CANON ELECTRONICS INC. 1386 CANON FINETECH NISCA INC.

49 Canon Inc.

883 Canon Marketing Japan Inc.

90 Canon Production Printing Systems Inc. Cansystem Co., Ltd.

54 CASIO COMPUTER CO., LTD. 3810 CASO Inc.

3678 Cellstar Industries Co., Ltd.

2395 Central Engineering Corporation 3555 CENTURY SYSTEMS Co., Ltd.

CHUO ELECTRONICS CO., LTD. CITIZEN SYSTEMS JAPAN CO., LTD.

71 COMOTA CO., LTD.

1206 CONTEC CO., LTD. 3232 CPI Technologies, Inc.

3881 Crafty Co., Ltd.

1231 CTCSP Corporation

178 D&M Holdings Inc.

2803 Dai Nippon Printing Co., Ltd. 3800 DAIKIN INDUSTRIES, LTD.

2839 Data Controls Inc. 1978 Datacard Japan Ltd.

2496 DDS Inc

1758 DENSO WAVE INCORPORATED

4058 Deraova-Proiect LLC 3879 DGSHAPE Corporation 419 Duplo Seiko Corporation

3848 DUX Inc.

3476 DX ANTENNA CO., LTD.

1026 Dyden Corporation 3741 Dynabook Inc.

3378 e-Broad Communications Inc.

2299 e-trees, Japan, Inc 3922 Ecomott Inc.

137 EIZO Corporation 3254 ELECOM CO., LTD. 3052 ELSA Japan Inc.

3593 Empathy Co., Ltd. 1525 EPSON DIRECT CORPORATION

1091 EXCEL CO., LTD.

[F]

2680 Fanatic Computers Inc. 3576 Fibergate Inc.

4119 FS JAPAN CO., LTD. FUJI ELECTRIC CO., LTD.

2331 Fuji Electric Co., Ltd.

Fuji Xerox Co., Ltd. 118 FUJIFILM Corporation

670 FUJIFILM Imaging Systems Co., Ltd.

253 Fujikura Ltd.

704 Fujikura Solutions Ltd.

3320 FUJISOFT INCORPORATED

3835 FUJITSU CLIENT COMPUTING LIMITED

1066 FUJITSU COMPONENT LIMITED 3386 FUJITSU COMPUTER TECHNOLOGIES LIMITED

1500 FUJITSU FRONTECH LIMITED

FUJITSU ISOTEC LIMITED

1833 FUJITSU KANSAI-CHUBU NET-TECH LIMITED

FUJITSU LIMITED

1650 FUJITSU NETWORK SOLUTIONS

3696 FUJITSU SOCIAL LIFE SYSTEM LIMITED 34 FUNAI ELECTRONIC CO., LTD. 1561 FURUNO SYSTEMS Co., Ltd.

3943 Fusion Technology Co., Ltd. 3355 FUTURE CONNECT. LTD.

1138 FXC Inc.

3802 G-Printec Inc. 4070 GES Japan Co., Ltd. 1526 GINGA SYSTEM CO., LTD.

3765 GLBB JAPAN

707 GLORY AZ System Co., LTD.

95 GLORY LTD.

4116 GLSolutions Inc. 3686 Godspeed, Co., Ltd.

GRAPHTEC CORPORATION 1728 GREEN HOUSE CO., LTD.

3065 Gridmark Inc.

85 GS Yuasa International Ltd.

4063 GST Japan Co., Ltd.

[H]

2837 Hagiwara Solutions co., Ltd.

2242 HAGIWARA TECHNO SOLUTIONS CO., LTD 3451 HAKARU PLUS CORPORATION

2740 HARVEST CO., LTD.

Hewlett-Packard Japan, Ltd. HIRAKAWA HEWTECH CORP

2549 Hitachi IE System Co., Ltd.

4005 Hitachi Industrial Product, Ltd. 3273 Hitachi Industry & Control Solutions, Ltd.

1083 Hitachi Information & Communication Engineering, Ltd.

1596 Hitachi KE Systems, Ltd. 52 Hitachi Kokusai Electric Inc.

Hitachi Solutions Technology, Ltd. 371 3255 Hitachi Systems Field Services, LTD

2692 Hitachi Terminal Mechatronics, Corp

1850 Hitachi-LG Data Storage, Inc.

2347 Hitachi-Omron Terminal Solutions, Corp Hitachi, Ltd.

3079 HOCHIKI CORPORATION

606 Horizon Inc. 1518 Hosiden Corporation

3706 Housing Exterior Division LIXIL Co., Ltd. 4024 HOYA CORPORATION MD DIVISION

3671 HOYA DIGITAL SOLUTIONS COOPERATION

3638 HP Japan Inc.

2629 HYTEC INTER Co., Ltd.

[1]

1326 I-O DATA DEVICE, INC.

3269 iB Solution Co., Ltd. 23 IBM Japan, Ltd.

1329 ICOM Inc.

3438 iD corporation

3495 IDEC AUTO-ID SOLUTIONS CO., LTD.

3494 IDEC CORPORATION 3073 IDK Corporation

151 Ikegami Tsushinki Co., Ltd.

4019 Illumina K.K.

1191 IMAGENICS. CO., LTD. 3280 impactTV_INC

3493 INABA DENKI SANGYO CO., LTD. 808 iND Co., Ltd.

1429 Infinico Corporation 3768 INNOTECK CORPORATION

338 Intel K.K. 3775 Interface Corporation 3923 IoT Systems Co., Ltd.

826 IRIICHI TECHNOLOGIES INC. 946 ISA Co., Ltd.

1864 ISHIIHYOKI CO., LTD. 3942 ITC Co., Ltd.

2978 ITUS Japan Co., Ltd. IWATSU ELECTRIC CO., LTD.

[J]

4137 J-Mobile Corporation

Janome Sewing Machine Co., Ltd.

Japan Aviation Electronics Industry, Limited JAPAN CASH MACHINE CO., LTD.

874 Japan Electronics Ind., Inc. 96 Japan Radio Co., Ltd.

1836 Japan Telegartner Limited

JB Advanced Technology Corporation

JVC KENWOOD Corporation

3751 JVC KENWOOD Public & Industrial

Systems Corporation

[K] 3769 K.K.FOVE

KABUTOYAMA WORKS CO., LTD KAGA ELECTRONICS CO., LTD.

KAMETSU CORP.

KANAI ELECTRONIC APPLIANCE Co., Ltd.

Kanematsu Electronics Ltd.

KATSURAGAWA ELECTRIC CO.,LTD.

1609 Kawamura Electric Inc. **KDDI** Corporation

KEYENCE CORPORATION

Keysight Technologies Japan K.K. KING TSUSHIN KOGYO CO.,LTD

KINGJIM CO., LTD.

KINKEI SYSTEM CORPORATION

Kioxia Corporation

Kobayashi Create Co., Ltd. Kodak Alaris Japan Corporation

KOGA ELECTRONICS CO. KOITO ELECTRIC INDUSTRIES, LTD.

KOKUYO Co., Ltd. KONICA MINOLTA JAPAN, INC.

KONICA MINOLTA, INC. KOSHIN DENKI KOGYO CO., LTD.

3762 Konetworks Ltd 2265 KUBOTEK CORPORATION

2537 Kumahira Co., Ltd. 1390 KUZUMI Electronics, Inc.

KYOCERA Document Solutions Inc.

2394 KYOKKO SEIKO CO., LTD. 2138 KYOWA TECHNOLOGIES CO., LTD

136 LAUREL BANK MACHINES CO., LTD.

2573 Laurel Intelligent Systems Co., Ltd. 3611 Lenovo Enterprise Solutions Ltd.

2420 Lenovo Japan LLC 3004 LET's corporation

3797 LINE Corporation 4077 LIVING ROBOT INC. 102 Logitec Corporation

3266 Logitec INA Solutions Co., Ltd. 3690 LVHM WATCH & JEWERY JAPAN K.K.

[M]

3959 MAMORIO, Inc.

3594 MASPRO DENKOH CORP. 3983 Matsumura Engineering Co., Ltd.

1118 MAX CO., LTD.

210 Maxell, Ltd.

2955 MC SECURITY Co., Ltd. 116 MEIDENSHA CORPORATION

2360 Miharu Communications Inc. MIMAKI ENGINEERING CO., LTD.

344 MintWave Co., Ltd. 4129 MIS Corporation

1932 MITACHI CO., LTD. MITSUBISHI ELECTRIC CORPORATION

594 MITSUBISHI Electric Engineering Co., Ltd. 1646 Mitsubishi Electric Information Network

Corporation 2044 MITSUBISHI ELECTRIC SYSTEM & SERVICE CO., LTD.

3050 Mitsubishi Paper Mills Limited 214 Mitsui E&S Systems Research Inc.

3789 Mitsui Knowledge Industry Co., Ltd. MITSUMI ELECTRIC CO., LTD.

2031 MIWA LOCK CO., LTD. MIYAKAWA ELECTRIC WORKS LTD.

MURATA MACHINERY, LTD.

4017 MOBILE COMMERCE SOLUTION Inc. 3258 mofiria Corporation

Murata Manufacturing Co., Ltd. 204 MUTOH INDUSTRIES, LTD.

33

NAGANO JAPAN RADIO CO., LTD.

2505 NAGATSUKA 716 NAGOYA ELECTRIC WORKS CO., LTD.

3290 NAITO DENSEI MACHIDA MFG.CO.,LTD. 146 NAKAYO, INC.

3546 NANABOSHI ELECTRIC MFG. CO., LTD. 126 NCR Japan, Ltd.

2196 NCR Services Japan, Ltd 3870 NEC Communication Systems, Ltd. NEC Corporation

3296 NEC Embedded Products, Ltd. 2729 NEC Magnus Communications

NEC Network and Sensor Systems, Ltd 1781 NEC Networks & System Integration Corporation

NEC Personal Computers, Ltd. 25 NEC Platforms, Ltd.

2644 NEC Solution Innovators, Ltd. 498 NEWTECH CO., LTD. 3886 NextGen Business Solutions, Inc.

4133 Nextorage Corporation 450 NHK SPRING CO., LTD. 3836 NICHIEI INTEC CO., LTD

1566 Nichigaku Co., Ltd. 2807 NIE Co., Ltd. 130 Nihon Unisys, Ltd.

356 NIKON CORPORATION 1671 NIKON VISION CO., LTD. 1363 NIKON-TRIMBLE CO., LTD.

119 Nintendo Co., Ltd. 2221 NIPPON ANTENNA CO., LTD Nippon Chemi-Con Corporation

621 NIPPON CONLUX CO., LTD. 844 Nippon Printer Eng. Inc.

CORPORATION(NTT) 1303 NIPPON TELEGRAPH AND TELEPHONE EAST CORPORATION

279 NIPPON TELEGRAPH AND TELEPHONE

1278 NIPPON TELEGRAPH AND TELEPHONE WEST CORPORATION

3895 NMR Corporation

3511 Nokia Solutions and Networks Japan GG

3506 NORITAKE ITRON CORPORATION

394 NTT Advanced Technology Corporation 1275 NTT Communications Corporation

329 NTT DATA CORPORATION

457 NTT Electronics Corporation 4107 NTT TechnoCross Corporation

3643 NTTDATA INTELLILLINK CORPORATION

443 OA LABORATORY CO., LTD.

3237 ODS Corporation

197 Oi Electric Co., Ltd.

307 Oki Communication Systems Co., Ltd. 624 Oki Data CORPORATION

Oki Electric Industry Co., Ltd.

463 OLYMPUS CORPORATION 4131 OM Digital Solutions Corporation

OMRON Corporation 2857 OMRON HEALTHCARE CO., LTD.

3939 OMRON SOCIAL SOLUTIONS CO., LTD

3663 Onkyo Home Entertainment Corporation 1812 OPTOELECTRONICS Co., Ltd.

[P]

4032 P3, Inc. 15 Panasonic Corporation

4088 Panasonic Group IS Company SANYO Electric Co., Ltd.

4022 Panasonic i-PRO Sensing Solutions Co., Ltd.

1780 Panasonic Life Solutions Networks Co., Ltd. 3790 Panasonic Mobile Communications Co., Ltd.

17 Panasonic System Solutions Japan Co., Ltd. 2234 PENTEL Co., Ltd.

144 PFU Limited 138 PHC Corporation

3104 PicoCELA Inc. 3977 PiNON Corp.

11 PIONEER ELECTRONIC CORPORATION

1448 Pixela Corporation 1364 PLANEX COMMUNICATIONS, Inc.

3628 Plat' Home Co., Ltd. 545 PLUS Corporation 2661 Primagest, Inc.

2041 Princeton Ltd. 3840 Project Ryukyu Co., Ltd

[Q]

4029 QD Laser, Inc. 3471 QUADRAC Co., Ltd.

2651 Qualica Inc. 2203 QUIXUN PRODUCTS CO., LTD.

763 RATOC Systems, Inc. Ricoh Co., Ltd.

690 RICOH IMAGING COMPANY, LTD.

38 RICOH INDUSTRY CO., LTD. 3692 RION CO., LTD.

1708 Routrek Networks, Inc.

175 RISO KAGAKU CORPORATION ROLAND DG CORPORATION 59

3716 Rubrik Japan KK 3573 RYOWA ELECTRONICS CO., LTD.

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	[S]	3137	TDK Corporation	12	YUTAKA ELECTRONIC MFG. CO., LTD.
3995	SAKAKI CORPORATION	39	TDK CORPORATION		
351	SANEI ELECTRIC INC.	75	TEAC CORPORATION		[Z]
3909	Sangikyo Corporation	3727	Technicolor Japan K.K.	3394	ZOOM CORPORATION
83	SANKEN ELECTRIC CO., LTD.	3717	TECHNO BROAD, INC.		
2881	SANWA SUPPLY INC.	2449	Techno Link Co., Ltd.	<0w	erseas>
920	SANYO DENKI CO., LTD.	3734	Techno Science Japan Co., Ltd.		Company (Country or Region Name)
19	SANYO Techno Solutions Tottori CO., Ltd.	2231	Technology Link Corporation	140.	company (country of flegion name)
355	SATO CORPORATION	3267	TechnoMatrYx Inc.		[A]
3799	SATSUKI CO., LTD.	174	TERAOKA SEIKO CO., LTD.	2353	A-DATA Technology Co., Ltd.
127	SAXA, Inc.	830	THE FURUKAWA ELECTRIC CO., LTD.		(CHINESE TAIPEI)
4110	SCALA K.K.	3516	TKR CORPORATION		A.W.Chesteron Company (USA)
451	SCREEN Graphic Solutions Co., Ltd.	3952	Tobila Systems Inc.	2548	A10 Networks, Inc. (USA)
3346	Seedsware Corporation	179	TOEI ELECTRONICS CO., LTD.	3955	AAEON Technology Inc. (CHINESE TAIPEI)
55	SEIKO EPSON CORPORATION	1399	TOKYO ELECTRON DEVICE NAGASAKI LIMITED	3603	Aava Mobile Oy (FINLAND)
50	Seiko Instruments Inc.	2490	TOMY Company, Ltd.	4040	AB Circle Limited (HONG KONG)
3484	SEIKO Solutions Inc.	2867	TOPPAN FORMS CO., LTD.	1170	AcBel Polytech Inc. (CHINESE TAIPEI)
3602	SEITEC CO., LTD.	2047	Toppan Printing Co., Ltd.	3314	Accedian Networks Inc. (CANADA)
777	SEIWA ELECTRIC MFG CO., LTD.	1669	Topre Corporation	3894	Accelink Technologies Co., Ltd. (CHINA)
514	SEKONIC CORPORATION	4096	TOSHIBA Corporation	3945	Access Limited (U.K.)
13	Sharp Corporation	244	TOSHIBA DIGITAL SOLUTIONS CORPORATION	379	ACCTON Technology Corp. (CHINESE TAIPEI)
1394	Sharp NEC Display Solutions, Ltd.	3825	Toshiba Electronic Device & Storage Corporation	215	Acer Incorporated (CHINESE TAIPEI)
3338	SHIBUTANI CO., LTD. Shin Shin Co., Ltd.	3459	Toshiba Global Commerce Solutions	4132	Acrox Technologies Co., Ltd. (CHINESE TAIPEI)
3167 3710	Shin Shin Tech. Co. Ltd.	37	Holdings Corporation	4060	Actions Microelectronics Co., Ltd. (CHINA)
193	Shindengen Electric Manufacturing Co., Ltd.	31	Toshiba Infrastructure Systems & Solutions Corporation	4060	Adesto Technologies (USA)
73	SHINKO SEISAKUSHO CO., LTD.	1939	TOSHIBA LIFESTYLE PRODUCTS &	2952	Advanced Card Systems Limited
3673	Shinsei Corporation	1939	SERVICES CORPORATION	2932	(HONG KONG)
341	SHINSEI INDUSTRIES CO., LTD.	3403	TOSHIBA LIGHTING & TECHNOLOGY	1320	ADVANTECH CO., LTD. (CHINESE TAIPEI)
2868	SHOFU INC.	0400	CORPORATION	4093	AHA INC CO., LTD. (KOREA)
1922	SIGMA CORPORATION	48	TOSHIBA TEC CORPORATION	3419	AlSolution (KOREA)
434	silex technology, Inc.	797	Touch Panel Systems K.K.	3201	AJA Video Systems Inc. (USA)
153	SINFONIA TECHNOLOGY Co., LTD.	3018	Transaction Media Networks Inc.	3949	ALE International (FRANCE)
3854	SINKA Corporation	2269	Transtron Inc.	2383	Alpha Networks Inc. (CHINESE TAIPEI)
2093	Sknet Corporation Ltd.	2309	Trend Micro Incorporated	3972	AMCS LLC (USA)
3502	Smart Solution Technology, Inc.		·	1565	AMD (CANADA)
795	SMK Corporation		[U]	4042	Amino Communications Ltd. (U.K.)
3872	SNK CORPORATION	907	UCHIDA YOKO CO., LTD.	2988	Amphenol Corporation - Amphenol
3247	SoftBank Corp.	4076	UCOS Co., Ltd.		AssembleTech Division (USA)
3676	Soltec. Japan. Limited	582	UMEZAWA TECHNICAL LABORATORY CO., LTD.	683	Amtran Technology Co., Ltd. (CHINESE TAIPEI)
93	SONY CORPORATION	2045	UNIADEX, Ltd.	4103	AndroVideo Inc. (CHINESE TAIPEI)
856	Sony Interactive Entertainment Inc.	3202	Unipulse Corporation	3674	Apacer Technology Inc. (CHINESE TAIPEI)
3620	Sony Mobile Communications Inc.	3144	Unitech Japan co., Ltd.	400	APC by Schneider Electric (USA)
5	SORD CORPORATION	2087	UNITEX Corporation	4039	Appcessori Corporation (USA)
269	SORITON SYSTEMS K.K.	3633	UPS Solutions Co., Ltd.	2656	Applanix Corporation (CANADA)
521	SOSHIN ELECTRIC CO., LTD.			482	Apple, Incorporated (USA)
4015	Square K.K.		[V]	3858	Applied Medical Resources Corporation
180	STAR MICRONICS CO., LTD.	3426	V-net AAEON Corporation Limited		(USA)
2575	StoreNet Corp.	3578	VAIO Corporation	2431	Apricorn, Inc. (USA)
2791	SubGate CO., Ltd.	3284	VALTEC CO., LTD.	3027	Arista Networks, Inc. (USA)
97	Sumitomo Electric Industries, Ltd.	2109	VarioSecure Inc.	3946	Arlo Technologies, Inc. (USA)
165	Sumitomo Electric System Solutions Co., Ltd.		200	1627	ARRAY NETWORKS, INC. (USA)
1197	Sumitomo Wiring Systems, Ltd.	0070	[W]	3530	ARRIS (USA)
1001	SUN CORPORATION	3976	WA HOLDINGS Co., Ltd.	2084	ARRIS International PLC (USA)
3764	SUN-WA TECHNOS CORPORATION	177	Wacom Co., Ltd.	1285	ASKEY COMPUTER CORP. (CHINESE TAIPEI)
3785	SYNCLAYER INC.	3889	WATEX CO., LTD.	3504	Aspect Software, Inc. (USA)
637	SystemGear Co., Ltd.	4089	Weber-Stephen Products Japan GK.	2208	Astec International Limited (HONG KONG)
3570	Systemk Corporation		X	3911 1011	Astro HQ LLC (USA) ASUSTek Computer Inc. (CHINESE TAIPEI)
	[Τ]	4022	Xacti Corporation		
163	TAIYO YUDEN CO., LTD.	4023	Λασι Οσιρσιαιστ	1149 3553	Aten International Co., Ltd. (CHINESE TAIPEI) Atop Technologies, Inc. (CHINESE TAIPEI)
283	TAKACOM CORPORATION		[Y]	3124	ATP Electronics Taiwan Inc. (CHINESE TAIPEI)
326	TAKAMISAWA CYBERNETICS CO., LTD.	22	YAMAHA CORPORATION	3464	Atrust Computer Corp. (CHINESE TAIPEI)
2847	TAKASAGO, Itd	3287	YAMASHITA SYSTEMS Corp.	3222	ATTO Technology, Inc. (USA)
1973	TAMURA CORPORATION	2931	YDK CO., LTD.	2097	Audiocodes LTD. (ISRAEL)
206	TATSUNO CORPORATION	2366	YEC, CO., LTD.	4136	Augury Systems Ltd. (ISRAEL)
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687	AVAGO Technologies (USA)	29
3705	Avalue Technology Inc. (CHINESE TAIPEI)	34
2888	AVer Information Inc. (CHINESE TAIPEI)	22
3244	Avere Systems, Inc. (USA)	39
1933	AVerMedia Technologies Inc.	77
	(CHINESE TAIPEI)	39
574	Avision Inc. (CHINESE TAIPEI)	37
	[0]	40
3615	[B] b-plus technologies GmbH (GERMANY)	35 40
3453	Bad Elf, LLC (USA)	41
2995	Barco N.V. (BERGIUM)	28
2085	BARCO, INC. (USA)	20
4108	Battery-Biz Inc (USA)	39
4044	Beijing Ulink Technology Co., Ltd. (CHINA)	24
2123	Belkin International, Inc. (USA)	38
676	BenQ Corporation. (CHINESE TAIPEI)	
3994	Biamp Systems, LLC (USA)	
3982	Big Innovation Company Limited	44
	(CHINESE TAIPEI)	24
3833	BIWIN STORAGE TECHNOLOGY CO., LTD.	36
	(CHINA)	20
2964	BizLink Technology Inc. (USA)	32
4115	Bloomberg LP (USA)	13
3488	Bluebird Inc. (KOREA)	41
1809	Broadcom Corporation (USA)	52
2766	Brocade Communications Systems LLC	28
2000	(USA)	56
3902	BULL SAS (FRANCE)	30 40
	[C]	
3085	CA Inc. (USA)	67 39
3755	Cadence Design Systems, Inc. (USA)	37
3985	CalDigit Inc. (USA)	14
3993	Cambricon Technologies Corporation Limited	33
	(CHINA)	37
2135	佳能電産香港有限公司 (HONG KONG)	41
3630	Canon Korea Business Solutions Inc.	39
	(KOREA)	38
3261	Canon Production Printing Netherlands B.V.	40
	(THE NETHERLANDS)	33
3957	Carl Zeiss AG (GERMANY)	
3449	Castles Technology Co., Ltd. (CHINESE TAIPEI)	
3035	CCIC Southern Testing Co., Ltd. (CHINA)	37
3679	Celestica Technology Consultancy	00
2020	(Shanghai) Co., Ltd. (CHINA)	26
3028	Cell Technology Limited (HONG KONG) Check Point Software Technologies Ltd.	14 36
2015	(ISRAEL)	53
2974	Chelsio Communications, Inc. (USA)	87
1638	Cheng Uei Precision Industry Co., Ltd.	01
.000	(CHINESE TAIPEI)	40
636	Cherry GmbH (GERMANY)	10
882	CHICONY ELECTRONICS CO., LTD.	40
	(CHINESE TAIPEI)	41
3874	Christie Digital Systems USA, Inc. (USA)	34
2846	Ciena (USA)	40
2163	Cisco Systems International BV	38
	(THE NETHERLANDS)	10
493	Cisco Systems, Inc. (USA)	36
3190	Citrix Systems, Inc. (USA)	27
3816	Clavister AB (SWEDEN)	28
702	CLEVO CO. (CHINESE TAIPEI)	38
989	Clientron Corp. (CHINESE TAIPEI)	14
3770	Cohesity, Inc. (USA)	35
3659	COLEBROOK BOSSON SAUNDERS LTD. (U.K.)	39

297	Compal Electronics, Inc. (CHINESE TAIPEI)		[F]
3486	Contec Americas Inc (USA)		F5 Networks,
2240	Contela, Inc. (KOREA)		
3908	Corero Network Security Inc. (USA)		FIMI s.r.l.
779	Coretronic Corporation (CHINESE TAIPEI)		FireEye, Inc.
3966	Corsair Memory Inc. (CHINESE TAIPEI)	1925	FIRICH ENTE
3780	Cradlepoint, Inc. (USA)		
4016	CREATIVE5 INC. (CHINESE TAIPEI)	4038	Fitogether, Inc
3551	Crestron Electronics, Inc. (USA)	2823	Flextronics In
4054	CRU Inc. (USA)		
4122	CS Corporation (KOREA)	3589	FLIR COMMER
2871	CTC Union Technologies Co., Ltd.	4046	Formlabs, Inc
	(CHINESE TAIPEI)		*
3978			Foxlink Techn
2499	, , , , , , , , , , , , , , , , , , , ,		FUJIFILM Visi
3809	Cyviz AS (NORWAY)	1468	Fujitsu Techn
4.40			[0]
448	D-Link Corporation (CHINESE TAIPEI) D&T Inc. (KOREA)		[G] G-SMATT Co
2486 3693	D&T Inc. (KOREA) Darfon Electronics Corp. (CHINESE TAIPEI)		
2033	DASAN Network Solutions, Inc. (KOREA)		•
3251	DataDirect Networks, Inc. (USA)		GIGA-BYTE 1
131	Datalogic Srl (ITALY)		GIG/(DITE
4109	Datecs Ltd. (BULGARIA)		Gigamon Inc.
527	Dell Inc. (USA)	2945	Global Scannir
2804	Delphi Display Systems, Inc. (USA)	3443	Global Scann
568	DELTA ELECTRONICS, Inc. (CHINESE TAIPEI)	2630	GlobTek, Inc.
3045	Delta Electronics, Inc. (CHINESE TAIPEI)	2419	GOOD WAY
4069	DERA Co., Ltd. (CHINA)		
671	Digi International Inc. (USA)		Google LLC
3989	DIGIEVER Corporation (CHINESE TAIPEI)		Goomedi Labor
3777	Digital Check Corporation (USA)		Gosunon Tec
1461 3326	DIVA Laboratories, Ltd. (CHINESE TAIPEI) DMX, LLC. d/b/a Mood Media (USA)		Cuanadana
3723	dnp denmark as (DENMARK)		Guangdong C Technology C
4106	DoalTech (KOREA)		recririology C
3917	DriveScale, Inc. (USA)		[H]
	DupliCALL Co., Ltd. (CHINA)		HARMONIC I
4083			HFR, Inc.
339	DZS Inc. (USA)	3736	HGST Inc.
		3059	HID Global C
	[E]	4126	Hisense Com
3791	EDGECORE NETWORKS CORPORATION		
	(CHINESE TAIPEI)		Hisense Visua
2628	Edgewater Networks, Incorporated (USA)		
1482	07 , .		
3672			Hon Hai Prec
537	3 3		Han Kurana I
877	Elitegroup Computer Systems Co., Ltd. (CHINESE TAIPEI)	3385	Hon-Kwang E
4028	Emesent Pty Ltd (AUSTRALIA)		Honeywell Sa
1068			Solutions (SF
4000	·		Hong Kong C
4123	Enmotus, Inc. (USA)		Limited
3457	Ergotron, Inc. (USA)	4001	Huaqin Teleco
4085	Ericsson AB (SWEDEN)		
3823	ESSENCORE LIMITED (HONG KONG)		Huawei Devic
1080	*		Huawei Techr
3608	Eve Systems GmbH (GERMANY)		HUMAX Co.,
2732	EVOLIS (FRANCE)		HUMAX NET
2889	ExaGrid Systems, Inc. (USA)		Hyve Solution
3897	EXTERITY LIMITED (U.K.) Extreme Notworks Inc. (U.SA)		[1]
1406 3524			[I] I/O INTERCO
3936			Identiv, Inc.
	0_0 Oyotoiii, 1110. (UOA)	500	. GOLILIV, IIIO.

297	Compal Electronics, Inc. (CHINESE TAIPEI)		[F]
3486	Contec Americas Inc (USA)	1440	F5 Networks, Inc. (USA)
2240	Contela, Inc. (KOREA)	3817	Fibar Group S.A. (POLAND)
3908	Corero Network Security Inc. (USA)	1926	FIMI s.r.l. (ITALY)
779	Coretronic Corporation (CHINESE TAIPEI)	3661	FireEye, Inc. (USA)
3966	Corsair Memory Inc. (CHINESE TAIPEI)	1925	FIRICH ENTERPRISES CO. LTD.
3780	Cradlepoint, Inc. (USA)		(CHINESE TAIPEI)
4016	CREATIVE5 INC. (CHINESE TAIPEI)	4038	Fitogether, Inc. (KOREA)
3551	Crestron Electronics, Inc. (USA)	2823	Flextronics International (Taiwan) Ltd.
4054	CRU Inc. (USA)		(CHINESE TAIPEI)
4122	CS Corporation (KOREA)	3589	FLIR COMMERCIAL SYSTEMS, INC. (USA)
2871	CTC Union Technologies Co., Ltd.	4046	
	(CHINESE TAIPEI)	1977	
3978	CTL (USA)	2247	0,
2499	Cyber Power Systems, Inc. (CHINESE TAIPEI)	3739	· · · · · · · · · · · · · · · · · · ·
3809	Cyviz AS (NORWAY)	1468	Fujitsu Technology Solutions GmbH (GERMANY)
	[D]		,
448	D-Link Corporation (CHINESE TAIPEI)		[G]
2486	D&T Inc. (KOREA)	3720	G-SMATT Co., Ltd. (KOREA)
3693	Darfon Electronics Corp. (CHINESE TAIPEI)	3352	,
2033	DASAN Network Solutions, Inc. (KOREA)	3954	, ,
3251	DataDirect Networks, Inc. (USA)	1559	GIGA-BYTE TECHNOLOGY CO., LTD.
131	Datalogic Srl (ITALY)		(CHINESE TAIPEI)
4109	Datecs Ltd. (BULGARIA)	3890	
527	Dell Inc. (USA)	2945	Global Scanning Denmark A/S (DENMARK)
2804	Delphi Display Systems, Inc. (USA)	3443	Global Scanning UK Ltd. (U.K.)
568	DELTA ELECTRONICS, Inc. (CHINESE TAIPEI)	2630	GlobTek, Inc. (USA)
3045	Delta Electronics, Inc. (CHINESE TAIPEI)	2419	GOOD WAY TECHNOLOGY CO., LTD.
4069	DERA Co., Ltd. (CHINA)		(CHINESE TAIPEI)
671	Digi International Inc. (USA)		Google LLC (USA)
3989	DIGIEVER Corporation (CHINESE TAIPEI)	3824	· · · · · · · · · · · · · · · · · · ·
3777	Digital Check Corporation (USA)	3905	0, 1 ,
1461	DIVA Laboratories, Ltd. (CHINESE TAIPEI)	0000	(CHINA)
3326	DMX, LLC. d/b/a Mood Media (USA)	3920	Guangdong Chuntex Elite Electronic
3723	dnp denmark as (DENMARK)		Technology Co., Ltd (CHINA)
4106	DoallTech (KOREA)		F. 43
3917	DriveScale, Inc. (USA)		[H]
3868	DupliCALL Co., Ltd. (CHINA)	1918	HARMONIC INC. (USA)
4083	DustPhotonics LTD (ISRAEL)	3759	HFR, Inc. (KOREA)
339	DZS Inc. (USA)	3736	HGST Inc. (USA)
	[6]	3059	HID Global Corporation (USA)
0704	[E]	4126	Hisense Commercial Display Co., Ltd.
3791	EDGECORE NETWORKS CORPORATION	4407	(CHINA)
0000	(CHINESE TAIPEI)	4127	Hisense Visual Technology Co., Ltd.
2628	Edgewater Networks, Incorporated (USA)	0070	(CHINA)
1482	Edimax Technology Co., Ltd. (CHINESE TAIPEI)	3372	Hitachi Vantara LLC (USA)
3672	Elatec GmbH (GERMANY)	1724	Hon Hai Precision Industry Co., Ltd.
537	Electronics for Imaging, Inc. (USA)	0005	(CHINESE TAIPEI)
877	Elitegroup Computer Systems Co., Ltd. (CHINESE TAIPEI)	3385	Hon-Kwang Electric Co., Ltd.
4000		2025	(CHINESE TAIPEI)
4028	Emesent Pty Ltd (AUSTRALIA)	3235	Honeywell Safety and Productivity
1068	Emulex Corporation (USA)	2027	Solutions (SPS) (USA)
4000	Endace Limited (NEW ZEALAND)	3837	Hong Kong Colorful Yugong Technology
4123	Enmotus, Inc. (USA)	4004	Limited (CHINA)
3457 4005	Ergotron, Inc. (USA)	4001	Huaqin Telecom Technology Co., Ltd.
4085	Ericsson AB (SWEDEN)	4000	(CHINA)
3823	ESSENCORE LIMITED (HONG KONG) EtherWAN Systems Inc. (CHINESE TAIDEI)	4008	Huawei Device Co., Ltd. (CHINA)
1080 3608	EtherWAN Systems Inc. (CHINESE TAIPEI) Eve Systems GmbH (GERMANY)	1968	Huawei Technologies Co., Ltd. (CHINA)
3608	Eve Systems GmbH (GERMANY) EVOLIS (FRANCE)	3625	HUMAX Co., Ltd. (KOREA)
2732		4125	HUMAX NETWORKS (KOREA)
2889	ExaGrid Systems, Inc. (USA)	3595	Hyve Solutions (USA)

I/O INTERCONNECT INC. (CHINA)

(USA)

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737 8670	IEI Integration Corp. (CHINESE TAIPEI) IGEL Technology GmbH (GERMANY)	3930	McDowell Signal Processing, LLC (dba McDSP) (USA)	3360 2869	PC WORTH INT'L CO., LTD. (CHINESE TAIPE PEGATRON CORPORATION (CHINESE TAIPE
272	IIYAMA CORPORTION (THE NETHERLANDS)	4121	MeiG Smart Technology Co., Ltd. (CHINA)	3996	Pensando Systems, Inc. (USA
2368	Imaging Business Machines, LLC (USA)	2863	Mellanox Technologies, Ltd. (ISRAEL)	3851	PERVASIVE DISPLAYS INC. (CHINESE TAIPE
3591	Imperva, Inc. (ISRAEL)	1573	Micro-Star International Co., Ltd.	2614	Philips & Lite-On Digital Solutions Corp.
2664	Infinera Corporation (USA)		(CHINESE TAIPEI)		(CHINESE TAIPE
472	INFOBLOX (USA)	3921	Microchip (ISRAEL)	2181	PIOLINK, Inc. (KOREA
421	Ingenico Inc. (USA)	3102	Micron Technology, Inc. (USA)	3925	Pismo Labs Technology Limited
831	Ingrasys Technology Inc. (CHINESE TAIPEI)	1639	Microsemi (ISRAEL)		(HONG KONG
149	INNORS Co., Ltd. (KOREA)	768	MICROSOFT CORPORATION (USA)	4025	Pittasoft Co., Ltd. (KOREA
068	Innowireless Co., Ltd. (KOREA)	3632	Milestone Systems A/S (DENMARK)	2524	Plantronics Inc. (USA
460	Interconnect System Inc. (USA)	1433	MITAC COMPUTING TECHNOLOGY	578	Plantronics Limited (U.K.
519	Interface Masters Technologies, Inc. (USA)		CORPORATION (CHINESE TAIPEI)	4147	PlusTV (KOREA
78	Inventec Corporation (CHINESE TAIPEI)	1896	MitraStar Technology Corporation	3642	PNY TECHNOLOGIES Asia Pacific Limited
049	InVue Security Products, Inc. (USA)		(CHINESE TAIPEI)		(CHINESE TAIPEI
080	iodyne (USA)	3529	Moxa Inc. (CHINESE TAIPEI)	3998	Polaroid Film B.V. (THE NETHERLANDS
947	IPEVO Corp (CHINESE TAIPEI)			3146	Power Quotient International Co., Ltd.
	,		[N]		(CHINESE TAIPE
	[J]	3778	Nacon (HK) Ltd (HONG KONG)	2062	POWERCOM CO., LTD. (CHINESE TAIPE
047	Jabil Inc. (USA)	3002	NDS Surgical Imaging (USA)	3374	Pride Tech Corporation (CHINESE TAIPE
779	JiranSecurity Co., Ltd. (KOREA)	1687	NetApp, Inc. (USA)	851	Primax Electronics Ltd. (CHINESE TAIPE
164	Juniper Networks, Inc. (USA)	1418	NETGEAR, Inc. (USA)	1910	PROMISE TECHNOLOGY, INC. (CHINESE TAIPE
. Ј т	(OOA)	1533	Netronix Inc. (CHINESE TAIPEI)	4098	PROVIX (KOREA
	[K]	3712	Netronome Systems, Inc. (USA)	3726	PSi Laser GmbH (GERMANY
754	Kaga (H.K.) Electronics Limited (HONG KONG)	667	NetScout Systems, Inc. (USA)	3658	Pulse Secure, LLC (USA
097	Kaonbroadband CO., LTD. (KOREA)	1316	Network Engines Inc, DBA "NEI", & DBA	3818	Pure Storage Inc. (USA
683	Kaonmedia Co., LTD. (KOREA)	1010	"Unicom Engineering Inc." (USA)	0010	Ture delarge inc.
339	Katron Technologies Inc. (CHINESE TAIPEI)	3865	NETWORK INTEGRITY SYSTEMS (USA)		[Q]
325	Kent Displays, Inc. (USA)	2608	New H3C Technologies Co., Ltd. (CHINA)	4011	Qbic Technology Co., Ltd. (CHINESE TAIPE
845	Kingston Digital, Inc. (USA)	3362	Newline Interactive Inc. (CHINESE TAIPEI)	2841	Qisda Corporation (CHINESE TAIPEI
788	KISAN TELECOM Co., LTD. (KOREA)	1961	NEXCOM International Co., LTD.	3162	QNAP Systems, Inc. (CHINESE TAIPE
574	Konftel AB (SWEDEN)	1901	(CHINESE TAIPEI)	2261	Qualys Inc. (USA
	(0.1,	2700			•
056	Kontron Canada Inc. (CANADA)	3798		3623	Quanta Cloud Technology Inc.
	0.1	4117	NOASystems Co., Ltd. (KOREA)	700	(CHINESE TAIPE)
004	[L]	3640	Nokia of America Corporation (USA)	726	QUANTA COMPUTER INC. (CHINESE TAIPE
924	Lanner Electronics Inc. (CHINESE TAIPEI)	308	Nokia-Global Product Compliance Laboratory	2039	Quanta Storage Inc. (CHINESE TAIPEI
152	Lantronix, Inc. (USA)	0007	(USA)	1012	Quantum Corporation (USA
454	LCFC (Hefei) Electronics Technology Co., Ltd.	3997	Nozomi Networks Inc. (USA)	3842	Qucell Networks Co., Ltd. (KOREA
40	(CHINA)	3139	NT-ware Systemprogrammierung GmbH		[D]
40	LEADTEK RESEARCH INC. (CHINESE TAIPEI)	1001	(GERMANY)	0.407	[R]
500	Legrand AV (C2G A Brand of Legrand) (USA)	1904	NueTeq Technology, Inc. (CHINESE TAIPEI)	2407	Radware Ltd. (ISRAEL
342	LEICA CAMERA AG (GERMANY)	3336	Nutanix, Inc. (USA)	3371	Rakuten Kobo Inc. (CANADA
74 105	Lexmark International, Inc. (USA)	1423	NVIDIA CORPORATION (USA)	4118	Ramaxel Technologies (Shenzhen) Co., Ltd
105	LG Display (KOREA)		[0]	1000	(CHINA
56	LG Electronics Inc. (KOREA)		[0]	1895	Raritan International B.V. Taiwan Branch
885	Lifesize Inc. (USA)	4081	O-Jin Corporation (KOREA)		(CHINESE TAIPEI
926	LINKFLOW Co., Ltd. (KOREA)	3871	OCTON INC. (CHINESE TAIPEI)	3888	Rein Medical GmbH (GERMANY
095	Lionic Corporation (CHINESE TAIPEI)	3827	One Stop Systems (USA)	3947	REMOTEC TECHNOLOGY LTD.
95	Lite On Technology Corp. (CHINESE TAIPEI)	3813	OnLogic Inc. DBA Logic Supply (USA)		(HONG KONG
32	Logitech Inc. (USA)	4091	Onward Security Corp. (CHINESE TAIPEI)	3931	RetailNext, Inc. (USA
092	LSDTech, Inc. (KOREA)	3550	Opengear Inc. (USA)	3437	RF IDeas, Inc. (USA
757	Lumentum Operations LLC (USA)	241	Oracle America, Inc. (USA)	2715	RF Window Co., Ltd. (KOREA
965	Luxshare Precision Industry Company Limited	4135	Origin Wireless Taiwan Corp. (CHINESE TAIPEI)	1558	Ribbon Communications Inc. (USA
	(CHINA)	3916	ORION Co., LTD (KOREA)	2377	Rimage Corporation (USA
		3062	Orion Technology Co., Ltd. (KOREA)	2529	Riverbed Technology (USA
	[M]	577	Overland Storage Inc. (USA)	3076	Robert Bosch Taiwan Co., Ltd. (CHINESE TAIPE
133	Magic Control Technology Corporation (CHINESE TAIPEI)	3657	OXTI CORPORATION (CHINESE TAIPEI)	4072	Rosenberger Asia Pacific Electronic Co., Ltd. (CHINA
105	Malvern Instruments Limited (U.K.)		[P]	3389	RSUPPORT CO., LTD. (KOREA
850	Manufacturing Resources International (USA)	3904	PAKERS CO., LTD (KOREA)	2480	Ruckus Wireless, Inc. (USA
182	Marvell Semiconductor Inc. (USA)	3441	Palo Alto Networks Inc. (USA)	4062	Ruijie Networks Co., Ltd. (CHINA
114	Matrixed Reality Technology Co., Ltd.	3434	Panasas, Inc. (USA)		
	(CHINA)	2372	Panduit Corp. (USA)		[S]
59	Matrox Electronic Systems (CANADA)	1808	PARTNER TECH CORP. (CHINESE TAIPEI)	4111	SaltNlight Inc. (KOREA
639	Matterport, Inc. (USA)	3974	PAX Computer Technology (Shenzhen) Co., Ltd.	4075	SambaNova Systems, Inc. (USA
090	McAfee, LLC. (USA)		(CHINA)	2750	

271	SAMSUNG ELECTRONICS Co.,Ltd. (KOREA	3782	Thales DIS CPL USA, Inc. (USA)
3627	Sanmina Corp (USA) 1524	Thales DIS France SA (FRANCE)
1416	Seagate Cloud Systems, Inc. (USA	3120	Thecus Technology Corp. (CHINESE TAIPEI)
3046	Seagate Technology (USA	3719	THINKWARE CORPORATION (KOREA)
2552	SEH Computertechnik GmbH (GERMANY	3713	Tintri by DDN, Inc. (USA)
3239	SendTek Corporation (CHINESE TAIPEI	3626	Tobii AB (SWEDEN)
3986	Sequent Ltd. (SWITZERLAND) 4071	Tobii Pro AB (SWEDEN)
481	SerComm Corporation (CHINESE TAIPE) 1601	Top Victory Electronics Co., Ltd.
4059	SGM, Co., Ltd. (KOREA)	(CHINESE TAIPEI)
4140	SHANGHAI CHINGMU VISION	3652	TP-LINK Technologies Co., Ltd. (CHINA)
	TECHNOLOGY CO., LTD (CHINA) 4120	TQ-Systems GmbH (GERMANY)
3219	Shenzhen Bitland Information Technolog	y 3542	TransAct Technologies Incorporated (USA)
	Co., Ltd. (CHINA	3695	Trenton Systems (USA)
3999	Shenzhen Horion Intelligent Technology	4018	Trimble INC. (USA)
	CO., LTD (CHINA	3781	Trustwave Holdings, Inc. (USA)
4145	ShenZhen Hua Yi Teng Technology Co., LTD	. 3761	Turtle Beach Europe, Ltd., Taiwan Branch
	(CHINA)	(CHINESE TAIPEI)
3991	SHENZHEN HYUNION ELECTRONICS CO., LIMITED	3565	Twinhead International Corp. (CHINESE TAIPEI)
	(CHINA)	
4079	Shenzhen Longsys Electronics Co., Ltd.		[U]
	(CHINA	4045	Ufi Space Co., Ltd. (CHINESE TAIPEI)
4026	Shenzhen NearbyExpress Technology	4094	ULSee Inc. (CHINESE TAIPEI)
	Development Company Limited (CHINA	886	Universal Global Scientific Industrial Co., Ltd.
3618	Shuttle Inc. (CHINESE TAIPEI)	(CHINESE TAIPEI)
2306	Silicom Ltd. (ISRAEL) 3875	UPG Company LLC (USA)
2535	Silver Peak Systems, Inc. (USA)	
3131	SK hynix Inc. (KOREA)	[V]
2276	SMART Embedded Computing, Inc. (USA	3990	ValueHD Corporation (CHINA)
1960	SMART Modular Technologies, Inc. (USA	3984	VC Inc. (KOREA)
2501	SMART Technologies ULC (CANADA	3988	Verico International Co., LTD.
3384	SMEC CO., LTD. (KOREA)	(CHINESE TAIPEI)
3631	SoftBank Robotics Europe (FRANCE	3668	Veritas Technologies LLC (USA)
2597	Solace Corporation (CANADA	3969	VERSA NETWORKS (USA)
3880	SolarEdge Technologies Ltd. (ISRAEL) 585	Vertiv IT Systems, Inc. (USA)
4050	SOLID STATE STORAGE TECHNOLOGY	/ 2595	ViaScope Inc. (KOREA)
	CORPORATION (CHINESE TAIPEI) 3613	ViewSonic International Corporation
794	SOLID YEAR CO.,LTD. (CHINESE TAIPEI)	(CHINESE TAIPEI)
3158	SOLID, Inc. (KOREA	3194	Vigilent Corporation (USA)
3773	SonicWall Inc. (USA	3439	Virtual Instruments Corporation (USA)
4134	Sonnet Technologies, Inc. (USA	2443	VIVOTEK INC. (CHINESE TAIPEI)
3808	Sonos, Inc. (USA	3730	Vmware, Inc. (USA)
3249	Sophos Ltd. (U.K.	3291	Voyetra Turtle Beach, Inc. (USA)
3650	Spectra Logic Corporation (USA	3125	Vuzix Corporation (USA)
3752	ST Engineering iDirect, Inc. dba iDirect (USA)	
3447	SteelSeries ApS (CHINESE TAIPEI)	[W]
4144	Sterlite Technologies Limited (INDIA	4007	Waltop International Corp. (CHINESE TAIPEI)
1498	Stratus Technologies, Inc. (USA	3829	Warwick Acoustics Ltd. (U.K.)
3243	Sunix Co., Ltd. (CHINESE TAIPEI) 3852	WAWGD, Inc. d.b.a. Foresight Sports (USA)
2933	Sunrex Technology Corp (CHINESE TAIPE	3666	Weifang GoerTek Electronics Co., Ltd. (CHINA)
4086	Sunwoda Electronic Co., Ltd. (CHINA	3763	Weihai Daewoo Electronics Co., Ltd. (CHINA)
1880	SUPER MICRO COMPUTER INC. (USA) 2432	Western Digital Technologies, Inc. (USA)
3792	Suzhou Lehui Display Co., Ltd. (CHINA) 1718	WIBU-SYSTEMS Aktiengesellschaft (GERMANY)
3815	Synology Inc. (CHINESE TAIPEI) 2418	WIDE CORPORATION (KOREA)
		3847	WILK ELEKTRONIK S.A. (POLAND)
	[T]	4052	Wincomm Corporation (CHINESE TAIPEI)
3838	T.I.T. ENG Co., Ltd. (KOREA) 2912	Wins Co., Ltd. (KOREA)
3271	TA Technology (Shanghai) Co., Ltd. (CHINA) 4124	WiSECURE Technologies (CHINESE TAIPEI)
3175	Taiwan BOE Vision-electronic Technolog	y 1767	Wistron Corporation (CHINESE TAIPEI)
	Co., Ltd. (CHINESE TAIPEI) 3423	Wiwynn Corporation (CHINESE TAIPEI)
1078	Tandberg Data GmbH (GERMANY)	
3962	Tatung Technology Inc. (CHINESE TAIPE)	M
4043	TCL OVERSEAS ELECTRONICS	3359	XAC Automation Corporation
	(HUIZHOU) CO., LTD. (CHINA)	(CHINESE TAIPEI)
3901	Telestream, LLC (USA) 2827	Xerox Corporation (USA)
3867	Tempered Networks, Inc. (USA	3912	XILINX, INC. (USA)
2943	Teradata Corporation (USA	3538	XYZprinting, Inc. (CHINESE TAIPEI)

TRONICS Co.,Ltd. (KOREA)	3782	Thales DIS CPL USA, Inc. (USA)
(USA)	1524	Thales DIS France SA (FRANCE)
Systems, Inc. (USA)		Thecus Technology Corp. (CHINESE TAIPEI)
logy (USA)	3719	THINKWARE CORPORATION (KOREA)
chnik GmbH (GERMANY)	3713	Tintri by DDN, Inc. (USA)
ration (CHINESE TAIPEI)	3626	Tobii AB (SWEDEN)
(SWITZERLAND)	4071	Tobii Pro AB (SWEDEN)
oration (CHINESE TAIPEI)	1601	Top Victory Electronics Co., Ltd.
(KOREA)	2050	(CHINESE TAIPEI)
NGMU VISION	3652	TP-LINK Technologies Co., Ltd. (CHINA)
CO., LTD (CHINA) d Information Technology	4120 3542	TQ-Systems GmbH (GERMANY) TransAct Technologies Incorporated (USA)
(CHINA)	3695	Trenton Systems (USA)
n Intelligent Technology	4018	Trimble INC. (USA)
(CHINA)	3781	Trustwave Holdings, Inc. (USA)
Teng Technology Co., LTD.	3761	Turtle Beach Europe, Ltd., Taiwan Branch
(CHINA)		(CHINESE TAIPEI)
N ELECTRONICS CO., LIMITED	3565	Twinhead International Corp. (CHINESE TAIPEI)
(CHINA)		
sys Electronics Co., Ltd.		[U]
(CHINA)	4045	Ufi Space Co., Ltd. (CHINESE TAIPEI)
byExpress Technology	4094	ULSee Inc. (CHINESE TAIPEI)
ompany Limited (CHINA)	886	Universal Global Scientific Industrial Co., Ltd.
(CHINESE TAIPEI)		(CHINESE TAIPEI)
(ISRAEL)	3875	UPG Company LLC (USA)
ems, Inc. (USA)		n a
(KOREA)	2000	[V]
ed Computing, Inc. (USA)		ValueHD Corporation (CHINA) VC Inc. (KOREA)
Technologies, Inc. (USA) ogies ULC (CANADA)	3984 3988	VC Inc. (KOREA) Verico International Co., LTD.
ogies ULC (CANADA) . (KOREA)	J300	venco international Co., LTD. (CHINESE TAIPEI)
ics Europe (FRANCE)	3668	Veritas Technologies LLC (USA)
tion (CANADA)	3969	VERSA NETWORKS (USA)
nologies Ltd. (ISRAEL)	585	Vertiv IT Systems, Inc. (USA)
TORAGE TECHNOLOGY	2595	ViaScope Inc. (KOREA)
(CHINESE TAIPEI)	3613	ViewSonic International Corporation
).,LTD. (CHINESE TAIPEI)		(CHINESE TAIPEI)
(KOREA)	3194	Vigilent Corporation (USA)
(USA)	3439	Virtual Instruments Corporation (USA)
ogies, Inc. (USA)	2443	VIVOTEK INC. (CHINESE TAIPEI)
(USA)	3730	Vmware, Inc. (USA)
(U.K.)	3291	Voyetra Turtle Beach, Inc. (USA)
forporation (USA)	3125	Vuzix Corporation (USA)
rect, Inc. dba iDirect (USA)		DAG
(CHINESE TAIPEI)	4007	[W]
ogies Limited (INDIA) ogies, Inc. (USA)	4007 3829	Waltop International Corp. (CHINESE TAIPEI) Warwick Acoustics Ltd. (U.K.)
ogies, Inc. (USA) (CHINESE TAIPEI)	3852	WAWGD, Inc. d.b.a. Foresight Sports (USA)
yy Corp (CHINESE TAIPEI)	3666	Weifang GoerTek Electronics Co., Ltd. (CHINA)
onic Co., Ltd. (CHINA)	3763	Weihai Daewoo Electronics Co., Ltd. (CHINA)
COMPUTER INC. (USA)	2432	Western Digital Technologies, Inc. (USA)
isplay Co., Ltd. (CHINA)	1718	WIBU-SYSTEMS Aktiengesellschaft (GERMANY)
(CHINESE TAIPEI)	2418	WIDE CORPORATION (KOREA)
	3847	WILK ELEKTRONIK S.A. (POLAND)
	4052	Wincomm Corporation (CHINESE TAIPEI)
Ltd. (KOREA)	2912	Wins Co., Ltd. (KOREA)
nanghai) Co., Ltd. (CHINA)	4124	WiSECURE Technologies (CHINESE TAIPEI)
on-electronic Technology	1767	Wistron Corporation (CHINESE TAIPEI)
(CHINESE TAIPEI)	3423	Wiwynn Corporation (CHINESE TAIPEI)
GmbH (GERMANY)		
gy Inc. (CHINESE TAIPEI)		[X]
SELECTRONICS	3359	XAC Automation Corporation
., LTD. (CHINA)		(CHINESE TAIPEI)
(USA)	2827	Xerox Corporation (USA)

(USA)		[Y]	
RANCE)	4099	Yangtze Memory Technologies Co	
E TAIPEI) KOREA)			(CHINA)
(USA)		[Z]	
WEDEN)	1143	Zebra Technologies Corporation	(USA)
WEDEN)	1229		(USA)
	4087	Zhongshan Hybroad Vision Tradir	ng
TAIPEI)		Company Ltd	(CHINA)
(CHINA)	3729	*	(USA)
RMANY)	3956	, -	(USA)
d (USA) (USA)	3354 3646		(CHINA)
(USA)	2596	Zylux Acoustic Corporation (CHINES	,
(USA)	2000	Zylax Accustic Corporation (Or invice	
Branch			
TAIPEI)			
SE TAIPEI)		Supporting Member	s
		panese>	
TAIPEI)	No.	Company Name	
TAIPEI)		[A]	
Co., Ltd.	3740		
TAIPEI) (USA)	3196 4003		O., LID.
(USA)	4003	ANELL CONFORATION	
		[C]	
(CHINA)	1192	Chiba Industry Advancement Cer	nter
KOREA)		Tokatsu Techno Plaza	
	1846	Chokuan Information and Industry	У
TAIPEI)		Development Association	
(USA)	755	COSMOS CORPORATION	

3807 DENSO EMC ENGINEERING SERVICE CORPORATION

348 DMG MORI B.U.G. CO., LTD.

[E]

300 e-OHTAMA, LTD.

997 E&C Engineering K.K.

1263 Ehime Institute of Industrial Technology

259 EMC Japan Corporation 1906 ETS-Lindgren Japan, Inc.

101 FOSTER ELECTRIC CO., LTD.

2865 FUJIFILM Techno Products Co., Ltd.

1115 FUJITSU GENERAL EMC LABORATORY LIMITED

3893 Fukushima medical device industry

promotion agency

575 Fukushima Technology Centre

1007 GE Healthcare Japan Corporation

4041 Gifu Prefectural Industry Technology Center

423 HIROSHIMA-TECHNOPLAZA CORPORATION

2207 Hitachi Information & Telecommunication

Engineering, Ltd. EMC Center

3937 Hokkaido Research Organization, Industrial Research Institute

3234 Industrial Research Institute of Niigata Prefecture

				(
397 Industrial Research Institute of Shizuoka	2563 SGS Japan Inc.	2709 BTL Inc. (CHINA)	719 EMV TESTHAUS GMBH (GERMANY)	3533 LCIE Bureau Veritas (FRANCE)	3811 Suzhou Science Standard Testing Co. Ltd.
Prefecture Hamamatsu Technical Support Center	3274 Shimane Insutitute Industrial Technology	3859 BTL Inc. (CHINA)	3270 EST Technology Co., Ltd. (CHINA)	2411 LTA Co., Ltd. (KOREA)	(CHINA)
742 Industrial Technology Center of OKAYAMA Pref.	1849 Sony Global Manufacturing & Operations	4021 BUREAU VERITAS ADT (SHANGHAI)	3470 ESTECH Co., Ltd. (KOREA)		
1213 Industrial Technology Institute, Miyagi	Corporation	CORPORATION (CHINA)	1474 ETL Inc. (KOREA)	[M]	[T]
Prefectural Government		818 Bureau Veritas Consumer Products Services (USA)	1145 Eurofins E&E Hursley Ltd (U.K.)	2959 MiCOM Labs (USA)	4101 Taiwan Electric Research & Testing Center
999 Intertek Japan K.K.	[T]	395 Bureau Veritas Consumer Products Services,	757 Eurofins MET Laboratories, Inc. (USA)	3575 MRT Technology (Suzhou) Co., Ltd (CHINA)	(CHINESE TAIPEI)
579 IPS Corporation	346 TDK-Lambda Corporation	(H.K.) Ltd., Taoyuan Branch (CHINESE TAIPEI)	1062 Eurofins York (U.K.)		277 Taiwan Testing and Certification Center
2227 ISHIKAWA Co., Ltd.	4138 Techno Science Systems Co., Ltd.	3081 Bureau Veritas Consumer Products		[N]	(CHINESE TAIPEI)
3649 Iwate Industrial Research Institute	996 Tokin EMC Engineering Co., Ltd.	Services, Inc. (USA)	[F]	1211 National Technical Systems (USA)	4014 Tarang labs- Product Qualification and
	1098 TOKYO METROPOLITAN INDUSTRIAL	2115 Bureau Veritas Shenzhen Co., Ltd.	3636 F Squared Engineering Corp dba F2 Labs (USA)	3220 Nemko AS (NORWAY)	Compliance Planet, Wipro Ltd. (INDIA)
[J]	TECHNOLOGY RESEARCH INSTITUTE	Dongguan Branch (CHINA)	910 FORCE Technology (DENMARK)	642 Nemko Canada Inc. (CANADA)	658 Test Site Services (USA)
3619 Japan Automobile Research Institute	943 Toshiba Carrier Engineering & Life Support Corp.	3772 BV 7Layers Communications Technology		2118 Nemko Korea Co., Ltd. (KOREA)	3379 The Compliance Management Group (CMG)
792 JAPAN ELECTRICAL SAFETY & ENVIRONMENT	3283 Toyama Industrial Technology Research	(Shenzhen) Co., Ltd. (CHINA)	[G]	4009 Nemko S.p.A. (ITALY)	(USA)
TECHNOLOGY LABORATORIES	and Development Center	4013 BV CPS ADT Korea Ltd. (KOREA)	2778 Global Certification Corp. (CHINESE TAIPEI)	720 Nemko USA Inc. (USA)	1328 The Hong Kong Standards and Testing
3891 Japan Gas Appliances Inspection Association	995 TOYO Corporation		708 Global EMC Standard Tech. Corp.	3928 NTREE Co., Ltd. (KOREA)	Centre Ltd. (HONG KONG)
140 JEL Limited	3396 Toyota Industries Corporation	[C]	(CHINESE TAIPEI)		831 The Standards Institution of Israel (SII)
	811 TUV Rheinland Japan Ltd.	1847 Central Research Technology Co.	3498 Guangdong Keyway Testing Technology	[O]	(ISRAEL)
[K]	240 TUV SUD Japan Ltd.	(CHINESE TAIPEI)	Co., Ltd. (CHINA)	782 ONETECH Corp. (KOREA)	916 3C Test Ltd (U.K.)
1251 Kagawa Industry Support Foundation		4067 Centre Testing International (Suzhou) Co., LTD.	2092 Gumi University EMC Center (KOREA)	,	3241 TPV Display Technology (Xiamen) Co., Ltd.
(NEXT KAGAWA)	[U]	(CHINA)		[P]	(CHINA)
689 Kanagawa Institute of Industrial Science	474 UL Japan, Inc	3177 Centre Testing International Group Co., Ltd.	[H]	656 PCTEST Engineering Laboratory, Inc. (USA)	2697 TÜV Rheinland (Guangdong) Ltd. (CHINA)
and Technology	77 OL Sapari, ino	(CHINA)	4130 Hangzhou T3T Technologies Co., Ltd.	409 Professional Testing (EMI), Inc. (USA)	4004 TÜV Rheinland (Shanghai) Co., Ltd. (CHINA)
187 KITAGAWA INDUSTRIES CO., LTD.	[W]	2216 Cerpass Technology Corporation	(CHINA)	400 Troicesional results (EIVII), Inc. (OOA)	4074 TÜV Rheinland (Shenzhen) Co., Ltd. (CHINA)
·	260 WAVE CORPORATION	(CHINESE TAIPEI)	,	[Q]	1097 TÜV Rheinland of North America (USA)
3569 KYB Corporation	200 WAVE CORPORATION		3606 Hangzhou TDT Technologies Co., Ltd.		
3304 Kyoritsu Electric Corporation	D.d.	2783 CETECOM GmbH (GERMANY)	(CHINA)	3718 QAI Laboratories, Ltd. (CANADA)	4020 TÜV Rheinland Sweden AB (SWEDEN)
3934 KYOTO INSTITUTE OF TECHNOLOGY	[Y]	3944 CETECOM, Inc. (USA)	264 HCT Co., Ltd. (KOREA)	1798 QualiTech, EMC Lab. (ISRAEL)	3252 TÜV Rheinland Taiwan Ltd. (CHINESE TAIPEI)
6.3	4073 Yamagata Research Institute Of Technology	3812 China Academy of Information and	592 Hermon Laboratories Ltd. (ISRAEL)	r=1	129 TÜV SÜD America Inc. (USA)
[L]	150 YAZAKI CORPORATION	Communications Technology (CHINA)	1814 Hong An Technology CO., LTD. (CHINESE TAIPEI)	[R]	2003 TÜV SÜD Canada (Ottawa) (CANADA)
1370 Labotech International Co., Ltd.		555 Chomerics Test Services (USA)	3070 Hong Fu Jin Precision Electrons (Yantai)	3987 Radiometrics Midwest Corporation (USA)	2718 TÜV SÜD Canada Inc. (CANADA)
		213 CKC Laboratories, Inc. (USA)	Co., Ltd. (CHINA)	1908 RETLIF Testing Laboratories (USA)	433 TÜV SÜD Ltd. (U.K.)
[M]	<overseas></overseas>	530 Compatible Electronics, Inc. (USA)	Hyundai C-Tech, Inc. dba HCT America, Inc.	4065 RN Electronics Limited (U.K.)	542 TÜV SÜD PSB Pte Ltd. (SINGAPORE)
2973 M-System Co., Ltd.	No. Company (Country or Region Name)	1938 Compliance Certification Services	(USA)		
1301 Minami-Shinsyu lida Industry Center	[A]	(KunShan) Inc. (CHINA)		[S]	[U]
1301 Minami-Shinsyu lida Industry Center1438 Miyazaki Prefecture Industrial Technology Center	[A] 3034 A Test Lab Techno Corp. (CHINESE TAIPEI)	(KunShan) Inc. (CHINA) 710 Compliance Certification Services Inc.	[1]	[S] 2793 SGS Germany GmbH (GERMANY)	[U] 4090 UCS Co., Ltd. (KOREA)
			[I] 821 I.T.L. (PRODUCT TESTING) LTD (ISRAEL)		
	3034 A Test Lab Techno Corp. (CHINESE TAIPEI)	710 Compliance Certification Services Inc.		2793 SGS Germany GmbH (GERMANY)	4090 UCS Co., Ltd. (KOREA)
1438 Miyazaki Prefecture Industrial Technology Center	3034 A Test Lab Techno Corp. (CHINESE TAIPEI)4053 AA Electro Magnetic Test Laboratory	710 Compliance Certification Services Inc. (CHINESE TAIPEI)	821 I.T.L. (PRODUCT TESTING) LTD (ISRAEL)	2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA)	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd
1438 Miyazaki Prefecture Industrial Technology Center [N]	 A Test Lab Techno Corp. (CHINESE TAIPEI) AA Electro Magnetic Test Laboratory Private Limited (INDIA) 	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA)	821 I.T.L. (PRODUCT TESTING) LTD (ISRAEL)3452 International Certification Corp.	2793SGS Germany GmbH(GERMANY)2934SGS Korea Co., Ltd.(KOREA)3300SGS North America(USA)	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd (SINGAPORE)
 1438 Miyazaki Prefecture Industrial Technology Center [N] 352 Nagano Prefectural General Industrial 	 A Test Lab Techno Corp. (CHINESE TAIPEI) AA Electro Magnetic Test Laboratory Private Limited (INDIA) Advanced Compliance Laboratory, Inc. 	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY)	 821 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) 3452 International Certification Corp. (CHINESE TAIPEI) 	2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI)	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd (SINGAPORE) 4066 UL Korea, Ltd. (KOREA)
 Miyazaki Prefecture Industrial Technology Center [N] Nagano Prefectural General Industrial Technology Center Precision. Electronics 	A Test Lab Techno Corp. (CHINESE TAIPEI) AA Electro Magnetic Test Laboratory Private Limited (INDIA) Advanced Compliance Laboratory, Inc. (USA)	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY) 2981 CSA Group Testing & Certification Inc. (CANADA)	 821 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) 3452 International Certification Corp.	 2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI) 3061 SGS-CSTC Standards Technical Services 	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd (SINGAPORE) 4066 UL Korea, Ltd. (KOREA) 596 UL LLC (USA)
 Miyazaki Prefecture Industrial Technology Center [N] Nagano Prefectural General Industrial Technology Center Precision. Electronics & Aviation Technology Department 	3034 A Test Lab Techno Corp. (CHINESE TAIPEI) 4053 AA Electro Magnetic Test Laboratory Private Limited (INDIA) 4128 Advanced Compliance Laboratory, Inc. (USA) 2186 APPLUS+ LGAI (SPAIN)	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY) 2981 CSA Group Testing & Certification Inc. (CANADA)	 821 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) 3452 International Certification Corp.	2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI) 3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA)	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd (SINGAPORE) 4066 UL Korea, Ltd. (KOREA) 596 UL LLC (USA) 3793 UL Verification Services (Guangzhou) Co.,
 Miyazaki Prefecture Industrial Technology Center [N] Nagano Prefectural General Industrial Technology Center Precision. Electronics & Aviation Technology Department NIPPON SEIKI CO., LTD. NISSEI ELECTRIC CO., LTD. 	3034 A Test Lab Techno Corp. (CHINESE TAIPEI) 4053 AA Electro Magnetic Test Laboratory Private Limited (INDIA) 4128 Advanced Compliance Laboratory, Inc. (USA) 2186 APPLUS+ LGAI (SPAIN) 966 Atlas Compliance & Engineering, Inc. (USA)	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY) 2981 CSA Group Testing & Certification Inc. (CANADA) 1208 CTK Co., Ltd. (KOREA)	 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) International Certification Corp. (CHINESE TAIPEI) International Standards Laboratory Corp. (CHINESE TAIPEI) Interocean EMC Technology Corp. 	 2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI) 3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA) 1937 SGS-CSTC Standards Technical Services 	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd (SINGAPORE) 4066 UL Korea, Ltd. (KOREA) 596 UL LLC (USA) 3793 UL Verification Services (Guangzhou) Co., Ltd., Song Shan Lake Branch (CHINA) 376 UL Verification Services Inc. (USA)
 Miyazaki Prefecture Industrial Technology Center [N] Nagano Prefectural General Industrial Technology Center Precision. Electronics & Aviation Technology Department NIPPON SEIKI CO., LTD. NISSEI ELECTRIC CO., LTD. NOISE LABORATORY CO., LTD. 	A Test Lab Techno Corp. (CHINESE TAIPEI) AA Electro Magnetic Test Laboratory Private Limited (INDIA) Advanced Compliance Laboratory, Inc. (USA) APPLUS+ LGAI (SPAIN) Atlas Compliance & Engineering, Inc. (USA) Attestation of Global Compliance (Shenzhen) Co., Ltd. (CHINA)	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY) 2981 CSA Group Testing & Certification Inc. (CANADA) 1208 CTK Co., Ltd. (KOREA)	 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) International Certification Corp. (CHINESE TAIPEI) International Standards Laboratory Corp. (CHINESE TAIPEI) Interocean EMC Technology Corp. (CHINESE TAIPEI) Intertek ETL SEMKO Korea Ltd. (KOREA) 	 2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI) 3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA) 1937 SGS-CSTC Standards Technical Services Co., Ltd. (CHINA) 3738 Shanghai Inspection and Testing Institute of 	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd (SINGAPORE) 4066 UL Korea, Ltd. (KOREA) 596 UL LLC (USA) 3793 UL Verification Services (Guangzhou) Co., Ltd., Song Shan Lake Branch (CHINA)
 Miyazaki Prefecture Industrial Technology Center [N] Nagano Prefectural General Industrial Technology Center Precision. Electronics & Aviation Technology Department NIPPON SEIKI CO., LTD. NISSEI ELECTRIC CO., LTD. 	A Test Lab Techno Corp. (CHINESE TAIPEI) AA Electro Magnetic Test Laboratory Private Limited (INDIA) Advanced Compliance Laboratory, Inc. (USA) APPLUS+ LGAI (SPAIN) Atlas Compliance & Engineering, Inc. (USA) Attestation of Global Compliance	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY) 2981 CSA Group Testing & Certification Inc. (CANADA) 1208 CTK Co., Ltd. (KOREA) [D] 270 D.L.S. Electronic Systems, Inc. (USA)	 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) International Certification Corp. (CHINESE TAIPEI) International Standards Laboratory Corp. (CHINESE TAIPEI) Interocean EMC Technology Corp. (CHINESE TAIPEI) Intertek ETL SEMKO Korea Ltd. (KOREA) 	2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI) 3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA) 1937 SGS-CSTC Standards Technical Services Co., Ltd. (CHINA)	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd
 Miyazaki Prefecture Industrial Technology Center [N] Nagano Prefectural General Industrial Technology Center Precision. Electronics & Aviation Technology Department NIPPON SEIKI CO., LTD. NISSEI ELECTRIC CO., LTD. NOISE LABORATORY CO., LTD. Noritz Corporation 	A Test Lab Techno Corp. (CHINESE TAIPEI) AA Electro Magnetic Test Laboratory Private Limited (INDIA) Advanced Compliance Laboratory, Inc. (USA) APPLUS+ LGAI (SPAIN) Atlas Compliance & Engineering, Inc. (USA) Attestation of Global Compliance (Shenzhen) Co., Ltd. (CHINA) AUDIX Technology (Shanghai) Co., Ltd. (CHINA)	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY) 2981 CSA Group Testing & Certification Inc. (CANADA) 1208 CTK Co., Ltd. (KOREA) [D] 270 D.L.S. Electronic Systems, Inc. (USA) 1153 DEKRA Testing and Certification Co., Ltd.	 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) International Certification Corp. (CHINESE TAIPEI) International Standards Laboratory Corp.	 2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI) 3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA) 1937 SGS-CSTC Standards Technical Services Co., Ltd. (CHINA) 3738 Shanghai Inspection and Testing Institute of Instruments and Automatic Systems (CHINA) 2621 Shanghai Institute of Measurement and 	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd
1438 Miyazaki Prefecture Industrial Technology Center [N] 352 Nagano Prefectural General Industrial Technology Center Precision. Electronics & Aviation Technology Department NIPPON SEIKI CO., LTD. 3562 NISSEI ELECTRIC CO., LTD. NOISE LABORATORY CO., LTD. Noritz Corporation [O]	A Test Lab Techno Corp. (CHINESE TAIPEI) AA Electro Magnetic Test Laboratory Private Limited (INDIA) Advanced Compliance Laboratory, Inc. (USA) APPLUS+ LGAI (SPAIN) Atlas Compliance & Engineering, Inc. (USA) Attestation of Global Compliance (Shenzhen) Co., Ltd. (CHINA) AUDIX Technology (Shanghai) Co., Ltd. (CHINA) Audix Technology (Shenzhen) Co., Ltd.	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY) 2981 CSA Group Testing & Certification Inc. (CANADA) 1208 CTK Co., Ltd. (KOREA) [D] 270 D.L.S. Electronic Systems, Inc. (USA) 1153 DEKRA Testing and Certification Co., Ltd. (CHINESE TAIPEI)	 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) International Certification Corp. (CHINESE TAIPEI) International Standards Laboratory Corp.	2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI) 3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA) 1937 SGS-CSTC Standards Technical Services Co., Ltd. (CHINA) 3738 Shanghai Inspection and Testing Institute of Instruments and Automatic Systems (CHINA) 2621 Shanghai Institute of Measurement and Testing Technology EMC Lab. (CHINA)	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd
1438 Miyazaki Prefecture Industrial Technology Center [N] 352 Nagano Prefectural General Industrial Technology Center Precision. Electronics & Aviation Technology Department NIPPON SEIKI CO., LTD. 3562 NISSEI ELECTRIC CO., LTD. 684 NOISE LABORATORY CO., LTD. Noritz Corporation [O] 3568 OHTAMA CALIBRATION SERVICE Co., Ltd.	A Test Lab Techno Corp. (CHINESE TAIPEI) 4053 AA Electro Magnetic Test Laboratory Private Limited (INDIA) 4128 Advanced Compliance Laboratory, Inc. (USA) 2186 APPLUS+ LGAI (SPAIN) 966 Atlas Compliance & Engineering, Inc. (USA) 4112 Attestation of Global Compliance (Shenzhen) Co., Ltd. (CHINA) 1257 AUDIX Technology (Shanghai) Co., Ltd. (CHINA) 638 Audix Technology (Shenzhen) Co., Ltd. (CHINA)	710 Compliance Certification Services Inc. (CHINESE TAIPEI) 3330 Core Compliance Testing Services, LLC (USA) 332 CSA Group bayern GmbH (GERMANY) 2981 CSA Group Testing & Certification Inc. (CANADA) 1208 CTK Co., Ltd. (KOREA) [D] 270 D.L.S. Electronic Systems, Inc. (USA) 1153 DEKRA Testing and Certification Co., Ltd. (CHINESE TAIPEI) 4100 Dongguan Dongdian Testing Service Co.,	 I.T.L. (PRODUCT TESTING) LTD (ISRAEL) International Certification Corp. (CHINESE TAIPEI) International Standards Laboratory Corp.	2793 SGS Germany GmbH (GERMANY) 2934 SGS Korea Co., Ltd. (KOREA) 3300 SGS North America (USA) 1600 SGS Taiwan Ltd. (CHINESE TAIPEI) 3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA) 1937 SGS-CSTC Standards Technical Services Co., Ltd. (CHINA) 3738 Shanghai Inspection and Testing Institute of Instruments and Automatic Systems (CHINA) 2621 Shanghai Institute of Measurement and Testing Technology EMC Lab. (CHINA) 3525 Shenzhen Academy of Metrology and	4090 UCS Co., Ltd. (KOREA) 3148 UL International-Singapore Pte Ltd (SINGAPORE) 4066 UL Korea, Ltd. (KOREA) 596 UL LLC (USA) 3793 UL Verification Services (Guangzhou) Co., Ltd., Song Shan Lake Branch (CHINA) 376 UL Verification Services Inc. (USA) 1309 Ultratech Engineering Labs Inc. (CANADA) 3834 Underwriters Laboratories Taiwan Co., Ltd. (CHINESE TAIPEI) 4012 Unified Compliance Laboratory (USA)
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Settlement of Accounts for FY 2020

(Statement of net assets)

From April 1, 2020 to March 31, 2021

ltem	Current Fiscal Year	Previous Fiscal Year	Increase or Decrease
I. Statement of general net	1 loodi Todi	1 loodi Todi	20010000
assets 1. Ordinary increase and decrease			
(1) Ordinary earnings			
1) Admission fees received	(4,300,000)	(4,200,000)	(100,000)
Admission fees received	4,300,000	4,200,000	100,000
② Membership fees received	(244,775,000)	(241,500,000)	(3,275,000)
Membership fees received	244,775,000	241,500,000	3,275,000
③ Earning on enterprise fees	(15,708,000)	(19,240,000)	(\(\triangle 3,532,000 \)
Site registration fees	14,928,000	12,640,000	2,288,000
Seminar enrollment fees	780,000	6,600,000	△ 5,820,000
4 Miscellaneous earnings	(2,138,063)	(1,378,496)	(759,567)
Miscellaneous earnings	2,138,063	1,378,496	759,567
Total ordinary earnings	266,921,063	266,318,496	602,567
(2) Ordinary expenditure			
① Enterprise expenditure	(193,818,498)	(219,255,724)	(△25,437,226)
Labor	63,641,778	61,337,251	2,304,527
Enterprise overhead	45,210,127	47,465,969	△2,255,842
Operating expenditure	271,500	4,356,361	△4,084,861
Standards setting	6,892,307	16,227,497	△9,335,190
Technical education and training	429,431	5,708,952	△5,279,521
Market surveillance	27,444,604	26,179,984	1,264,620
International relations operation	1,268,260	5,541,567	△4,273,307
Public relations	12,026,851	15,538,006	△3,511,155
Site registration expenditure	26,985,200	28,221,337	△1,236,137
Transfer to bonus reserve fund	6,423,000	5,372,000	1,051,000
Transfer to retirement allowance reserve fund	2,553,440	2,634,800	△81,360
Transfer to officers' retirement bonus reserve fund	672,000	672,000	0
② Administrative expenditure	(28,358,630)	(30,108,117)	(△1,749,487)
Labor	12,435,185	13,764,655	△1,329,470
Housekeeping	13,512,085	14,173,762	△661,677
Transfer to bonus reserve fund	1,605,000	1,343,000	262,000
Transfer to retirement allowance reserve fund	638,360	658,700	△20,340
Transfer to officers' retirement bonus reserve fund	168,000	168,000	0
Total ordinary expenditure	222,177,128	249,363,841	△27,186,713
Current fiscal year ordinary increase and decrease amount	44,743,935	16,954,655	27,789,280

(Unit: Japanese yen)

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Item	Current Fiscal Year	Previous Fiscal Year	Increase or Decrease	
General net assets before tax	44,743,935	16,954,655	27,789,280	
Corporation tax, residential tax, and enterprise tax	70,000	70,000	0	
Current fiscal year general net assets	44,673,935	16,884,655	27,789,280	
Balance of general net assets at the beginning of the term	401,091,810	384,207,155	16,884,655	
Balance of general net assets at the end of the term	445,765,745	401,091,810	44,673,935	
II. Balance of net assets at the end of the term	445,765,745	401,091,810	44,673,935	

» VLAC (Voluntary EMC Laboratory Accreditation Center)

VLAC was established in April 1999 by VCCI Council as an independent organization providing laboratory accreditation VLAC accredits laboratories by inspecting whether they conform to international standards "ISO/IEC 17025". The scope of accreditation covers emissions from multimedia devices demanded by VCCI Council, as well as laboratories focusing on: EMC testing (electrical and electronic devices, electrical devices for medical use, on-board electrical equipment for cars, railways, ships, and elevators, etc.), performance testing of telecommunications terminal equipment, electromagnetic field exposure testing, performance testing of wired communication terminals, air-conducted noise testing, power consumption testing of home-use electronic equipment, and safety testing of medical equipment and others. Laboratories accredited by VLAC are recognized anywhere in the world because VLAC is a signatory organization of ILAC MRA. Such laboratories enjoy the privilege of fast registration with VCCI Council, free of charge simply by sending their certificate to the website.

As of the end of FY 2020, 51 testing sites of 37 laboratories have been certified by VLAC. For details, see the VLAC website https://www.vlac.co.jp/.









ILAC Combined MRA Mark

Certificate of Accreditation

Scope of Accreditation (Measurement Method)

n Scope of Accreditation d) (Test Standards)

» VCCI Commissioned Testing Laboratories



TELEC (Telecom Engineering Center) - EMC Laboratory

URL: https://www.telec.or.jp/

Street address: 5-7-2 Yashio, Shinagawa-ku, Tokyo, Japan 140-0003

TELEC is a testing and accreditation body that performs Technical Regulations Conformity Certification and Construction Design Certification defined in the Radio Act, engages in work as a notified body accredited through MRA with the EU, calibrates measurement instruments as a designated calibration agency, tests radio facilities, and more. TELEC is accredited as an ISO/IEC 17025 laboratory by VLAC and can test EMC, RF and extremely low-power radio facilities, and conduct tests for Wi-SUN certification within the specified scope. Additionally, TELEC performs SAR tests, tests WPT facilities and various facilities using high frequencies, and measures antenna characteristics and a variety of electromagnetic fields in open sites.



JQA (Japan Quality Assurance Organization) - Saito Electromagnetic Environment Testing Laboratory

URL: https://www.jqa.jp/

Street address: 7-3-10 Saito-Asagi, Ibaraki-shi, Osaka-fu, Japan 567-0085

JQA is a fair and neutral third-party organization providing services such as: Inspection and registration of quality management systems such as ISO 9001 and environment management systems such as ISO 14001, electromagnetic environment testing, product safety certification, measurement device calibration, and certification of daily-life service robots. The Saito laboratory is the biggest of JQA's electromagnetic environment testing laboratories, and also deals with information, medical, and home appliances, and car- and ship-mounted equipment. JQA is also capable of testing radio equipment in Japan and overseas. JQA testing facilities are registered as qualified by VCOI and certified by VLAC and A2LA under ISO/IEC 17025.



KEC (Kansai Electronic Industry Development Center) - Testing Division

URL: https://www.kec.jp/

Street address: 3-2-2 Hikaridai, Seikacho, Sourakugun, Kyoto-fu, Japan 619-0237

KEC is accredited as an ISO/IEC 17025 laboratory (by VLAC, JAB, and A2LA) and performs high-quality, reliable tests as iNARTE-certified engineers assuredly support EMC testing for electrical and electronic devices for home, industries, medicine, cars and aircraft, and defense-related equipment, as well as evaluation testing for radio equipment and product safety testing for home appliances. In addition, KEC has JIS Q 17043 Proficiency Testing Provider Accreditation and offers highly-reliable EMC proficiency testing to ensure the management and improvement in the quality of laboratory accreditation and EMC testing.



Intertek Japan - Kashima Testing Laboratory

URL: https://ew.intertek-jpn.com/

Street address: 298-6 Sada, Kashima-shi, Ibaraki Prefecture, Japan 314-0027

Intertek Japan runs five testing sites in Japan, and is accredited by VLAC, NVLAP, and IECEE, among others. The laboratory provides EMC testing and accreditation for consumer, industry, medical, automobile, military, aviation, and telecommunications equipment, and specification and calibration services for various testing equipment. Intertek Japan also provides product safety testing, factory inspections, overseas safety certification, and various agent application and other services for telecommunications equipment. The Kashima laboratory, with its anechoic chamber and open site, has been engaged in EMC testing, mainly of consumer equipment, since 1984.

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NOA Bldg.



Headquarters

VCCI Council

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Participating organizations

Japan Electronics and Information Technology Industries Association (JEITA) Japan Business Machine and Information System Industries Association (JBMIA) Communications and Information network Association of Japan (CIAJ)

As of March 31, 2021

