

Designed and Made in Japan **HIOKI**





***Measurement***

***Protection***

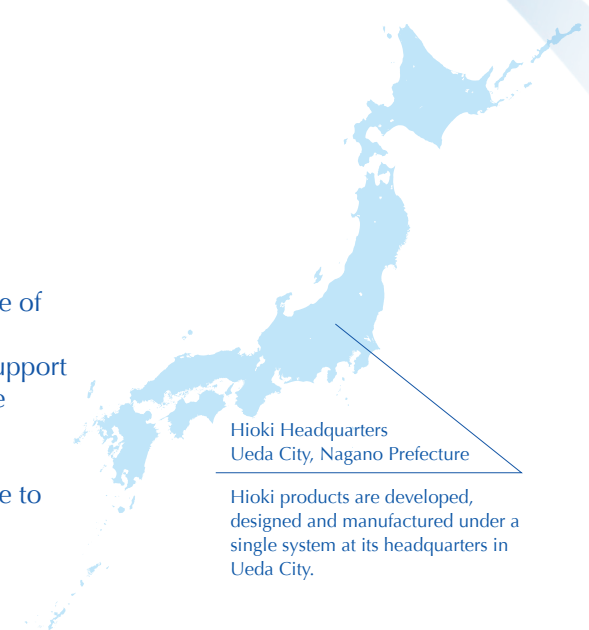
***Advancement***



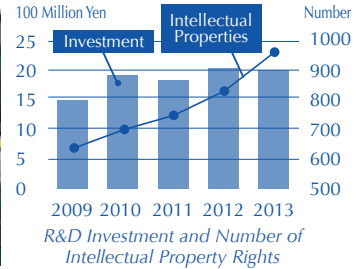
Hioki's measurement technology is widely used in the maintenance of factories, businesses and infrastructures, contributing to the safety and security of our daily lives. We also support the development of next generation technologies in the automotive and new energy sectors to help them deliver high quality products at a competitive cost. With our mission of providing measurement technologies that protect the safety of society, we seek to contribute to the advancement of a brighter and more prosperous future.

Hioki Headquarters  
Ueda City, Nagano Prefecture

Hioki products are developed, designed and manufactured under a single system at its headquarters in Ueda City.



## Developed and Designed in Japan Expertise that Gives Birth to One and Only Products



Hioki reinvests a minimum of 10% of its annual sales back into research and development in order to pour maximum effort into nurturing the product development power of its approximately 250 engineers. With the resources, more than 30 products are released into the international market every year, and more than 100 intellectual property rights are acquired.

## Manufactured in Japan The Made in Japan Quality



Hioki manufactures roughly 1200 products and ships over 800,000 units per year. Nearly all of these are manufactured in its factory in Ueda City. It is widely recognized that Japanese-made products characterized by superb quality have a failure rate of only 100 to 3000 ppm\*. Grounded on a rigorous quality control system, Hioki leads the industry by delivering a failure rate of roughly 50ppm, representing world-class quality that is a source of pride for the company. *\*Actual failure rates vary from product to product.*

## Hioki Product Lines Play an Important Role in Advancing Global Industries



Power Quality Analyzers



LCR Meters



Data Recorders



Insulation Resistance Meters for Production Lines



Digital Multimeters



Clamp Meters



Insulation Resistance Testers



PCB Inspection Equipment

*Instruments for Field Maintenance*

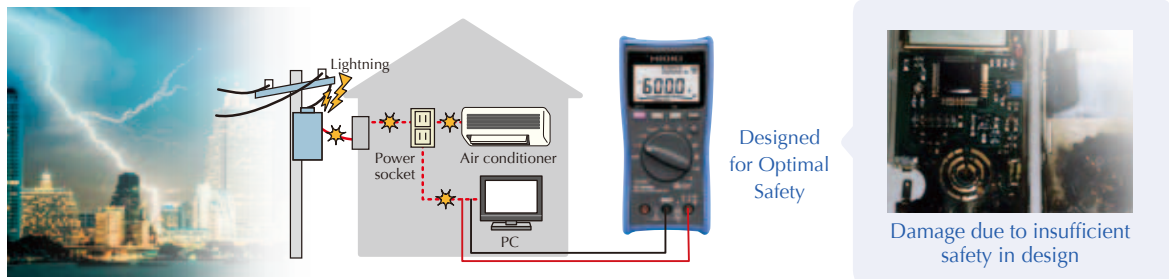
# Product Development Process

## Step 1: Listening to the Voices of Customers



Product developers at Hioki personally visit customers to propose new product ideas in order to collect feedback regarding the proposal, discuss current pain points, and generate suggestions for improvement. This approach reflects Hioki's commitment to develop products hand-in-hand with its customers.

## Step 2: Ensuring the Safety of the Customer

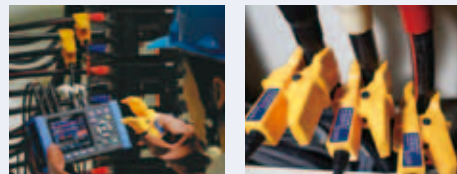


When lightning strikes, the induced energy will flow to the power line via electric wires. For power lines at factories and similar industrial facilities, the opening and closing of electromagnetic valves may allow the inclusion of impulse voltages or transient overvoltages that is 10 times greater than the power voltage. When measuring such voltage levels with test equipment that is insufficiently designed in terms of safety, electrical accidents are likely to occur. Hioki protects customers from the dangers of such accidents by anticipating these situations of overvoltage or incorrect operation of testing equipment by incorporating protective circuits in its products.



### Compliance to International Standards

Hioki electrical measuring instruments are designed to comply with international standards for safety. Developers at Hioki personally participate in international standards committees and actively engage in discussions to ensure worker safety.



Customer safety is assured with the world's first non-metallic contact voltage sensor

## Step 3: Rigorous Impact Tests in the Continuous Pursuit of Quality



	STEP 1	STEP 2	STEP 3	STEP 4
High Temp.	85°C	100°C	125°C	155°C
Low Temp.	-55°C	-55°C	-65°C	-65°C

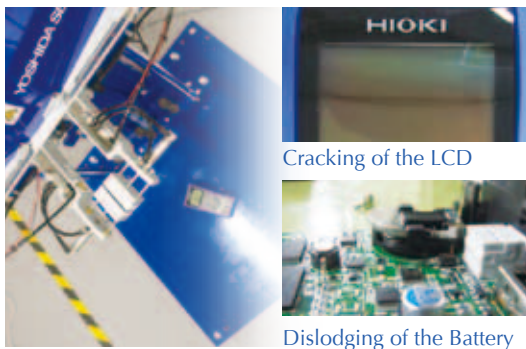
### Thermal Shock Damage Test

Points of a product that are vulnerable to changes in the environment are identified via thermal shock tests. The ABS used in the impacted areas are reviewed for its thermal withstanding performance and improved. This allows Hioki to deliver products with wider operating temperature ranges to its customers.



### Cable Flexibility Limit Test

It is very important that cables that are connected to test and measurement equipment are pliant and flexible but also resistant to breakage. Hioki conducts flexing tests on all cables for over 10,000 times to verify performance and usability, as well as the number of times the cable can be bent before the wires break.



### Drop Test

Test products are dropped on all 6 sides from a height of 1 meter. The height is increased until the product is damaged in order to identify the sufficiency of the durability and make design improvements.

Learn more about the Hioki Quality here:

<https://youtu.be/kUUyxIkFu9k>    <https://youtu.be/OFY5wjFHZk>



### Open and Close Test of Current Clamp Sensors

Current clamp sensors are opened and closed repeatedly when used to measure a current cable. In pursuit of the highest durability, clamps sensors are opened and closed more than 10,000 times during quality testing. To verify resistance to malfunction, performance, and ease-of-use, the number of possible operations until the clamp actually breaks are counted in order to further improve design.

## Step 4: Verify Quality with Customers - True Development Collaboration -



Verify Durability During Actual Usage



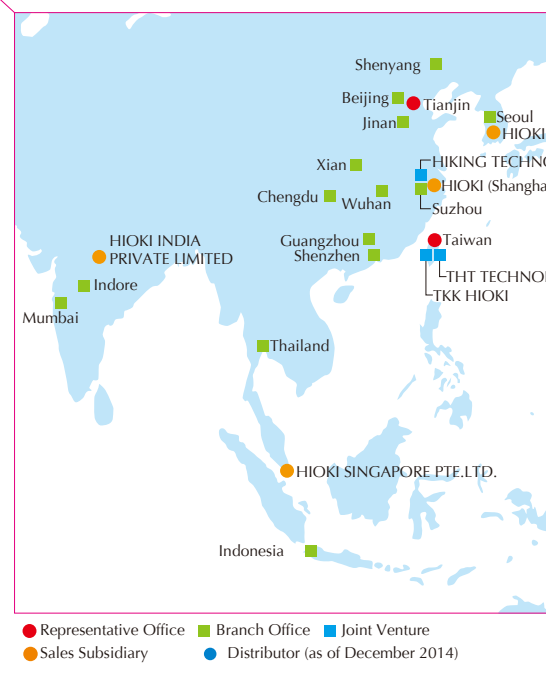
Evaluate the Quality of Prototypes



Product Release

# The Hioki Service Network

Hioki subsidiaries are established in the USA, China, India, Singapore, and Korea.  
43 international distributors support other customers around the world.



● Representative Office    ■ Branch Office    ■ Joint Venture  
● Sales Subsidiary    ● Distributor (as of December 2014)



HIOKI USA CORPORATION



HIOKI USA CORPORATION

KOREA CO.,LTD.  
OLOGY  
Sales & Trading Co., Ltd.

OLOGY

## Asia

### CHINA

Hioki (Shanghai) Sales & Trading Co., Ltd.  
Hioki (Shanghai) Sales & Trading Co., Ltd.: Beijing  
Hioki (Shanghai) Sales & Trading Co., Ltd.: Guangzhou  
Hioki (Shanghai) Sales & Trading Co., Ltd.: Suzhou  
Hioki (Shanghai) Sales & Trading Co., Ltd.: Tianjin  
Hioki (Shanghai) Sales & Trading Co., Ltd.: Shenzhen  
Hioki (Shanghai) Sales & Trading Co., Ltd.: China Service Center

### INDIA

Hioki India Private Limited  
Hioki India Private Limited: Indore Office

### KOREA

Hioki Korea Co.,Ltd.

Taishin Corporation

### SINGAPORE and Other ASEAN countries

Hioki Singapore Pte. Ltd.  
Hioki Singapore Pte. Ltd.: Thailand Representative Office

### TAIWAN

Hioki E.E. Corporation Taiwan Representative Office  
Don Ho & Co., Ltd.

## Europe

### AUSTRIA

Universal Elektronik Import Ges.m.b.H.

### BELGIUM

Batenburg Mechatronica

### BULGARIA

Eltera Ltd

### CZECH REPUBLIC

Testovaci Technika s.r.o.

### DENMARK

LTM Instruments ApS

### FINLAND

Noretron Components Ltd.

### FRANCE

Equipements Scientifiques S.A.

### GERMANY

ASM GmbH

### GREECE

M.J. Priniotakis Scientific Apparatuses & Instruments

### HUNGARY

ProMet Merestechnika Kft

### ICELAND

Oryggis Midstodin

### ITALY

Asita s.r.l.

### LITHUANIA

Tikslus Matas

### NETHERLANDS

Batenburg Mechatronica B.V.

### NORWAY

IKM Instrutek AS

### POLAND

Labimed Electronics Sp. z o.o.

### ROMANIA

InterNET SRL

### RUSSIA

ZAO Tek Know

### SLOVAKIA

Testovaci Technika s.r.o.

### SPAIN

Dismai, S.L.

### SWEDEN

Beving Elektronik AB

### SWITZERLAND

Neukom Electronic AG

Computer Controls AG

### TURKEY

TestOne Teknoloji Çözümleri San. Tic. A.Ş.

### UNITED KINGDOM

GMC Instrumentation Ltd.

PASS Ltd.

## North America

### CANADA

RCC Electronics Limited

### U.S.A. & MEXICO

Hioki USA Corporation

## South America

### ARGENTINA

Drihm s.r.l.

### BRAZIL

Getrotech Comercial Elétrica Importação e Exportação Ltda.

Panambra Tecnica Importação e Exportação Ltda.

### CHILE

Intronica S.A.

### COLOMBIA

Producel Ingenieros S.A.

### PERU

Promotores Electricos S.A.

## Oceania

### AUSTRALIA

Power Parameters Pty Ltd

### NEW ZEALAND

Electrotest Ltd

## Middle East

### BAHRAIN

Ebrahim Al-Shakar & Sons

### IRAN

Syteltronics Eng. Co., Ltd.

### ISRAEL

Astragal Ltd.

### SAUDI ARABIA

B.K General Tech Services Est.

### U.A.E.

Naser Al Sayer & Co. L.L.C.

## Africa

### SOUTH AFRICA

Measuretest cc

### EGYPT

Technology Group

### GHANA

Kissidoff Company Limited



*Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.*

# HIOKI

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All information correct as of July 3, 2015. All specifications are subject to change without notice.