KEYENCE is dedicated to providing ADDED VALUE solutions for engineers in nearly all industries. We provide the tools that let manufacturers and researchers stay competitive in the global marketplace.
KEYENCE has steadily grown since 1974 to become a world leader of innovation in the development of automation, quality assurance and R&D.

KEYENCE products are used in a wide variety of industries and fields

KEYENCE offers a wide range of factory automation products including automation sensors & safety equipment, static eliminators, barcode readers, measuring instruments, vision systems, laser markers and digital microscopes.

Innovation

KEYENCE has been ranked as one of Forbes’ “World’s Most Innovative Companies” every year since the list’s inception in 2011. Our products not only meet current but also future customer requirements in many manufacturing and R&D industries. We have also been named one of Business Week’s “1000 Best Valued companies”.

Direct Sales Network

KEYENCE employs a large number of sales engineers throughout the world enabling invaluable direct on-site support. This direct approach allows us to meet customers’ needs at every stage of their businesses, from design and research through production and beyond. Today, KEYENCE serves over 200,000 customers in some 70 countries around the world.

Corporate Information

Global Headquarters: Osaka Japan
Founded: May 1974
Capital: US$300,362,000
2013 Global Sales: US$2,598,137,000
Worldwide Employees: 4,000

Note: US dollar amounts are converted from Japanese yen for convenience only at ¥102 = US$1, the approximate exchange rate on March 20, 2014.
Versatile Products


KEYENCE products are designed to add value to the manufacturing and research practices of our customers. Our products are engineered to be versatile, so they can be used in every industry for a wide variety of applications. KEYENCE offers the world’s best products for today and tomorrow’s application needs.
KEYENCE Service & Support

Direct Sales Network

KEYENCE incorporates direct sales rather than having distributors or sales agents. Our technically trained sales engineers have extensive product knowledge along with application and industry experience. Customers can expect on-site support to quickly solve applications saving invaluable time.

Value Added Products

KEYENCE sells a broad range of products, enabling comprehensive support for a wide range of equipment across all industry sectors.

Find your solution efficiently and avoid having to consult with multiple vendors.

Other Companies

Onsite line operations stall while waiting for support

You need direct access to the people that can provide you with quick and practical solutions.

CONVENTIONAL SALES

Solution Providers

Company [A] Sensors

Company [B] Laser Marking

Company [C] Barcode Readers

Company [D] Vision Systems

The Customer

Consulting with and managing multiple solution providers is troublesome and time consuming.

KEYENCE

DIRECT SUPPORT

Question

Customer

Quick Response!

KEYENCE

JUST ONE COMPANY TO CONTACT

Sensors Expert

Laser Marking Expert

Barcode Readers Expert

Vision System Expert

and more.

The Customer

The Right Solution
Same-Day Shipping

With most items in stock, received orders can ship the same day, reducing your overhead costs and losses due to work stoppage.

Globally Local

KEYENCE works closely with machine builders in many countries and can make introductions and suggestions for improvements in remodeling and developing turn-key solutions at your overseas plants.

EUROPE

<table>
<thead>
<tr>
<th>Business location</th>
<th>Local time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>By 3 p.m.*</td>
</tr>
<tr>
<td>Austria, Belgium, Netherlands, Switzerland &amp; Eastern Europe</td>
<td>By 2 p.m.</td>
</tr>
<tr>
<td>UK</td>
<td>By 3 p.m.</td>
</tr>
<tr>
<td>France</td>
<td>By noon</td>
</tr>
<tr>
<td>Italy</td>
<td>By 11 a.m. *2 p.m. (Friday)</td>
</tr>
</tbody>
</table>

NORTH AMERICA/SOUTH AMERICA

<table>
<thead>
<tr>
<th>Business location</th>
<th>Local time</th>
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<tbody>
<tr>
<td>USA</td>
<td>By 4 p.m. CST</td>
</tr>
<tr>
<td>Canada</td>
<td>By 2 p.m. EST</td>
</tr>
<tr>
<td>Mexico</td>
<td>By 2 p.m. CST</td>
</tr>
</tbody>
</table>

EASTERN ASIA

<table>
<thead>
<tr>
<th>Business location</th>
<th>Local time</th>
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</thead>
<tbody>
<tr>
<td>Taiwan</td>
<td>By 4 p.m.</td>
</tr>
<tr>
<td>China</td>
<td>By 4 p.m.</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>By 11 a.m.</td>
</tr>
<tr>
<td>Korea</td>
<td>By 4 p.m.</td>
</tr>
</tbody>
</table>

SOUTH-EASTERN ASIA/SOUTHERN ASIA

<table>
<thead>
<tr>
<th>Business location</th>
<th>Local time</th>
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</thead>
<tbody>
<tr>
<td>Singapore, Indonesia, Philippines, Vietnam, India</td>
<td>By 9:15 a.m.</td>
</tr>
<tr>
<td>Malaysia</td>
<td>By 4 p.m.</td>
</tr>
<tr>
<td>Thailand</td>
<td>By 2 p.m.</td>
</tr>
</tbody>
</table>
Keyence Corporate Profile

Global Network

Engineers with in-depth expertise support production sites anywhere in the world.
Global Support:
Over 200 Offices
in more than 44 Countries
SENSORS

FIBEROPTIC
FS & FU Series

High function amplifiers and a vast array of sensor head options provide reliable solutions for the most challenging detection conditions.

PHOTOEYE
GENERAL PURPOSE PHOTOEYE
PZ Series

METAL PHOTOEYE
PR-G Series

METAL MINIATURE PHOTOEYE
PR-M/F Series

DISTANCE-BASED LASER PHOTOEYE
LR Series

LASER
DISTANCE-BASED LASER SENSOR
GV Series

LASER SENSOR
LV Series

SPECIALTY
HEAVY DUTY PHOTOEYE
PX Series

COLOR, UV & LUSTER DETECTION
CZ Series

Lasers are ideal for difficult applications, since they provide a small visible beam spot over long distances.

Solve tough applications involving color, luster, and UV detection.

Ensure reliable detection, even under harsh washdown conditions.
<table>
<thead>
<tr>
<th>PRESSURE</th>
<th>PROXIMITY</th>
<th>CURTAIN</th>
<th>SCANNER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AP Series</strong></td>
<td><strong>ES Series</strong></td>
<td><strong>GL-R Series</strong></td>
<td><strong>SZ Series</strong></td>
</tr>
<tr>
<td>Versatile mounting and pressure detection options</td>
<td>Reliable detection for all metal types.</td>
<td>Built-in guarding, all-in-one functionality, and innovative wiring options make the GL-R Series a perfect solution for countless safety applications.</td>
<td>Safety laser scanners allow users to protect and monitor complex hazardous zones with ease.</td>
</tr>
<tr>
<td><strong>GP Series</strong></td>
<td><strong>LIQUID FLOW</strong></td>
<td><strong>GL-S Series</strong></td>
<td></td>
</tr>
<tr>
<td><strong>FD-M Series</strong></td>
<td></td>
<td>Ultra slim design featuring built-in mounting brackets and simplified wiring configurations for seamless integration. Highly visible indicators provide operation status at all times.</td>
<td></td>
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<tr>
<td>Ideal for both hydraulic and pneumatic applications.</td>
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<td></td>
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<td></td>
<td>Area protection</td>
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<td></td>
<td></td>
<td></td>
<td>Collision prevention</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Access protection</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>First laser scanner with a built-in muting function</td>
</tr>
</tbody>
</table>
HIGH PRECISION MEASUREMENT

1D LASER DISPLACEMENT SENSOR

LK Series

With a best-in-class sampling rate of 392 kHz, the LK Series can obtain reliable optical measurements of even the most rapidly moving processes. This series also has the highest accuracy and repeatability in its class.

- Coarse Targets
- Transparent Targets
- Fine Targets
- Mirror Targets

Measuring the thickness/width of a steel plate

Multi-point thickness measurement

2D/3D LASER DISPLACEMENT SENSOR

LJ Series

The LJ Series is ideal for high accuracy inline and offline measurements. High precision 3D measurement provides an accurate reproduction of surface profiles.

Measure Up to 8 Features at the Same Time

- Peak Height
- Average Height
- Gap
- Angle
- Bottom Height
- Width/Position
- Cross Sectional Area
- Profile Comparison

OPTICAL MICROMETER

LS Series

Speed (Fastest in its class)
13.3 times faster than conventional systems

Stability (World first)
Active tilt and vibration correction

Durability (Low maintenance)
No moving parts

Measuring the run-out of a rotating shaft

Measurement of the outer diameter of a fine wire

NEW

2-Axis Optical Micrometer
LS-9006D/9030D
KEYENCE offers a complete solution and the support for all your image processing needs.

LumiTrax™
A fusion of high-speed cameras with intelligent lighting and an advanced inspection algorithm

The LumiTrax™ system captures targets with a newly developed ultra high-speed camera and controlled partial lighting. The completely new capturing method analyzes multiple images acquired with lighting from different directions to create shape (surface irregularity) and texture (pattern) images.

KEYENCE was one of the first companies to develop the concept of using a camera for part inspection. Being involved in machine vision since the 1980’s, our current machine vision system is the result of KEYENCE’s immense industrial knowledge from solving countless applications in a wide variety of industries.
KEYENCE offers a wide variety of models to meet the needs of a new era of improved productivity and quality in the workplace.

- **Spot, Bar, & Blower Types**
- **Built-In Display**
- **Low Voltage Wiring**
- **Calibration-Free Setup**
- **Low Maintenance Operation**

## CODE READERS/STATIC

### BARCODE READER

**BL Series**

- High Scan Speed: 1300 scans/sec
- High Resolution: 0.08 mm (0.0031”)
- Unmatched reading ability on poor quality codes

Verification of test tubes

### 1D/2D CODE READER

**SR Series**

- **AUTOFOCUS**
  The reader can be mounted at any distance and maintain a clear image. [Up to 1000mm (39.37”) away]

- **AUTOMATIC TUNING**
  Determines optimal settings for exposure time, image processing filter, etc. [From about 750,000 combinations]

- **AUTOMATIC POLARIZATION**
  Glare can be eliminated with the built-in polarizing filter. Reader angle adjustment or external lighting is unnecessary.

### STATIC ELIMINATION

**SJ Series**

- Prevent particles from sticking to the cutting machine

- Static elimination on films
- Static elimination in feeder bowls

Uneven background (cardboard) | Curved part (sticker) | Scratch | Thick printing | Shiny background (aluminum) | Thick print lines (coated paper) | Thin printing | Parallel distortion
INTELLIGENT SENSORS

VISION SENSOR

IV Series

Difficult applications that formerly required multiple conventional photoelectric or proximity sensors can now be tackled easily with a vision sensor. Automatic focus, color imaging models, and high intensity illumination set the IV Series apart.

DIGITAL CONTACT SENSOR

GT2 Series

The GT2 Series is a digital contact sensor and is the first to employ a quartz glass scale shot system for high-accuracy measurement. Customers have the option of either a standard model or air push model.

CCD LASER SENSOR

IG Series

The IG Series is a thrubeam CCD laser sensor that can perform a variety of measurements with high repeatability and stability. This sensor is also able to detect transparent targets.

Multiple inspections in one field of view

Packing insertion check

Gap measurement between rollers

Color detection tool checks printing

Pencil Type Model

The new pencil type model combines a slim ø8 mm ø0.31” body with high-accuracy measurements

Edge control of a glass substrate
MARKING TECHNOLOGY

LASER MARKER

MD & ML Series

KEYENCE’s 3-Axis laser markers are equipped with the most advanced optical components for laser marking. Nearly every shape can be easily programmed and accurately marked. 3D profiles and CAD data can be used to program any target profile.

MD-X Series NEW

Applications

- CONTRAST MARKING MOLDED PACKAGES (BGA)
- 3D MARKING ANODISED HOUSINGS
- COATING REMOVAL ON-BOARD INSTRUMENT PANEL SWITCHES
- HIGH-SPEED 2D CODE MARKING METAL CASTING
- BLACK-ANNEALED MARKING PRECISION TOOLS
- THIN FILM PROCESSING GOLD-PLATED CONNECTORS

INKJET PRINTER

MK-U Series NEW

A combination of intuitive maintenance and advanced quality control.

Easy Operation

Stable Operation

Easy Inspection

Minimized down time

Auto-Shower Cleaning World’s First

Conventional automatic cleaning only cleans along the ink path. With KEYENCE’s newly developed auto-shower function, the MK-U is able to clean the ink path, nozzle, electrode plates, and gutter all at once. This reduces the need for disassembly for maintenance, and enables stable printing by proactively sustaining print head components.
INSPECTION & ANALYSIS

DIGITAL MICROSCOPE

VHX Series

The VHX Series Digital Microscope was designed to overcome the shortcomings of traditional optical microscopes - shallow depth-of-field, short working distance, lack of portability and versatility, sample limitations, etc. By integrating advanced zoom optics with a CMOS camera, 23” LCD monitor, LED light source, controller, fully-motorized stage, and analysis/reporting software, the VHX streamlines testing and improves the speed and efficiency of the inspection process. With a wide range of magnification, from 0.1x to 5000x, the VHX Series enables observation of macro-scale stereoscopic images as well as detailed, SEM level analysis. Many lighting techniques are also supported including bright and dark field, transmitted, polarized, and differential interference observation.

INSTANT MEASUREMENT SYSTEM

IM Series

The IM Series is a one step solution to conventional quality control inspection problems. With the press of a button, KEYENCE’s patented pattern analysis tools provide traceable 2D analysis of any part placed on the measurement stage. With an industry leading 100 nm resolution, the IM Series provides unprecedented solid state measurement in a low cost, green, and space saving package.

LASER SCANNING MICROSCOPE

VK-X Series

Automatically analyzes and differentiates 3D surfaces based on nanometer-level profile and roughness data. Non-contact system works on any material and requires no sample prep.

3D MEASURING MACROSCOPE

VR Series

Our one-shot 3D measuring macroscope uses a new technology to: capture 3D data over a wide area with just the click of a button, eliminate measurement variation between users, and provide a variety of measurements such as profiling, volume, and roughness.

FLUORESCENCE MICROSCOPE

BZ-X Series

This fully integrated microscope is capable of performing fluorescence, bright field, and phase-contrast imaging - without the need for a darkroom.