KEYENCE
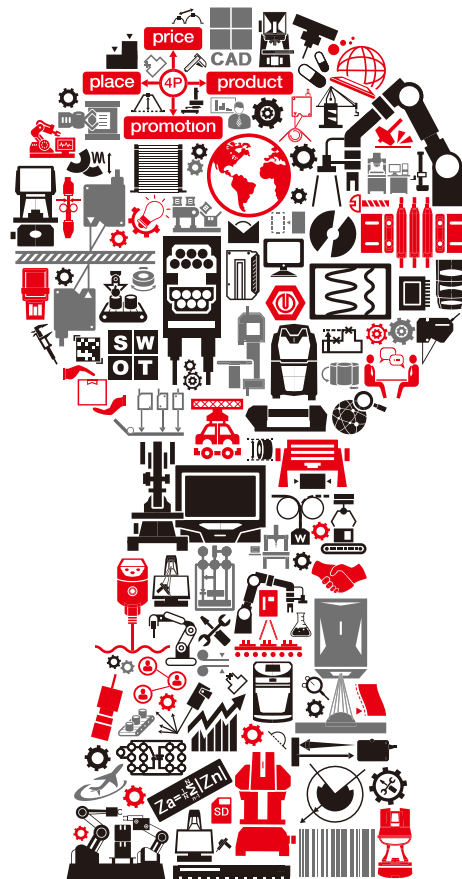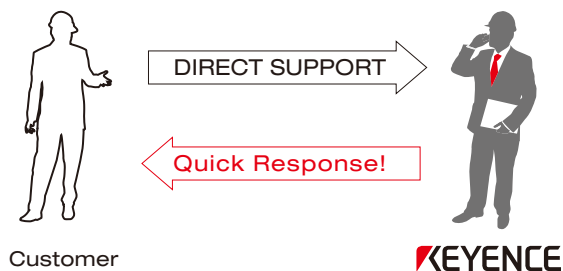
CORPORATE PROFILE

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 VALUE

Since 1974, KEYENCE has steadily grown and innovated to become a world leader in the development of automation and quality assurance solutions
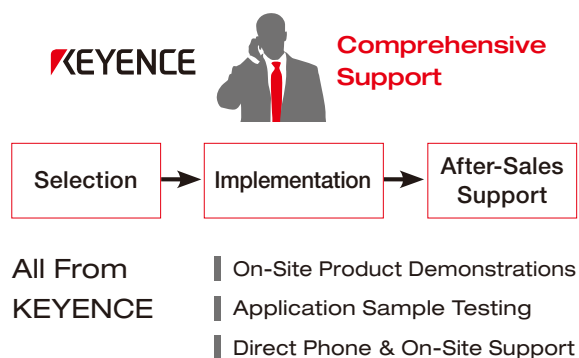
Direct Sales Network

DIRECT SUPPORT

Quick Response!

Customer

KEYENCE

Your Sales Engineer

- Local
- Specialized Product Expert
- KEYENCE Direct

Direct Support

KEYENCE

Comprehensive Support

Selection	→	Implementation	→	After-Sales Support

All From KEYENCE

- On-Site Product Demonstrations
- Application Sample Testing
- Direct Phone & On-Site Support

Same-Day Shipping

Products ordered by 4:00 PM CST are shipped from our warehouse center in Chicago the same day!

Innovative Products

One Supplier

Fast Delivery | Direct Sales | Global Support

Sensors / Safety / Process / Static

Vision / Auto ID

Printing / Marking

Controls

Measurement / Metrology

Digital Microscopes
High resolution images, 3D profiles, and superior depth-of-field

Machine Vision Systems
High-speed, multi-camera systems for 1D, 2D, and 3D inspection

Process Sensors
Monitor system pressure and liquid flow

1D / 2D Code Readers
Best-in-class barcode reading capabilities with both handheld and in-line barcode readers

Safety Curtains and Scanners
Machine guarding solutions

Handheld Mobile Computers
Improve productivity, reduce mistakes, and built to last

Presence Sensors
Versatile position and appearance based sensor options

Laser Markers
High-speed, high-quality laser markers for coding and traceability

Displacement Sensors
High-speed, high-accuracy laser displacement sensors

Inkjet Printers
High-speed continuous inkjet printers for coding and traceability

Instant Measurement Systems
Place-and-press measurement

Control Systems
PLCs, HMIs, and servo motors

NEW Products

Hybrid Laser Marker	Logistics Code Reader	3D Surface Profiler
▌**X, Y and Z Tracking**	▌**Wide Field of View & Long Reading Depth**	▌**Measure Any Target**
Combines a camera and distance sensor to adjust for X, Y, Z and θ.	Read with certainty regardless of size or shape of objects.	Nanometer, micrometer, and millimeter measurements on any material.
▌**Data-Driven Analytics**	▌**Ultra-High Speed**	▌**Unprecedented Surface Analysis**
Automatic fault protection and monitoring with intuitive diagnostics.	Stable reading even on high-speed lines.	Automatic comparison of 42 roughness parameters to instantly differentiate samples.

Presence Sensors

All-Purpose Sensors

| Best Detection Ability in its Class
| Durable & Long Life
| Simplified Operation

The LR-Z Series has become the standard for both machine builders and product manufacturers. This sensor series quickly solves any application with its long range and ability to detect shiny targets, dark targets, transparent targets, and everything in between.
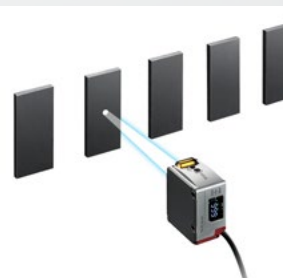
Laser Sensors

The LR-T Series offers unmatched versatility with its laser light source, long range detection, all-in-one design, and OLED display.

Color/Finish Sensors

Color, surface finish, and countless other appearance changes can be stably detected with the innovative LR-W Series.

Fiber Optic Sensors

The FS-N40 Series boasts an easy-to-use amplifier and an extensive catalog of fiber optic heads to solve any application.

Photoelectric Sensors

The PR Series offers a variety of durable metal sensors from miniature background suppression sensors to long distance thrubeams.

Process Monitoring

Flow Meters

| Clamp-On Flow Meters

| Monitor Liquids, Gases, or Compressed Air

| Compatible with Various Pipe Materials

KEYENCE offers a wide range of flow meters/sensors to fit any need. From low flow or air leakage monitoring, all the way up to monitoring compressed air or liquid flow on an 8" pipe, the FD Series provides effortless integration with its zero pipe modification clamp-on units.

Pressure Sensors

| Measure Both Gas and Liquid Pressure

| Self-Contained and Separate Amplifier Models

| Highly-Visible Displays

Level Sensors

| Unaffected by Foam, Vapor, Build-Up, etc.

| Standard, Sanitary, and Chemical Resistant Models

| Sensing Guide-Pulse Technology

Machine Guarding

Safety Laser Scanners

| Impressive Range of 8.4 m (27.56')
| Easy-To-Use Software
| Built-In Camera

The SZ-V Series is the industry's leading safety laser scanner with its impressive range, detachable display, built-in camera, and network compatibility. This flexible safety solution makes machine guarding easier than ever before.

Safety Light Curtains

| Built-In Guarding
| Quick and Easy Alignment
| Simplified Wiring Options

Safety Door Interlocks

| Locking and Non-Contact Models
| Compact yet Robust Construction
| Reliable and Consistent Alignment

Pass/Fail Inspections

Vision Sensors
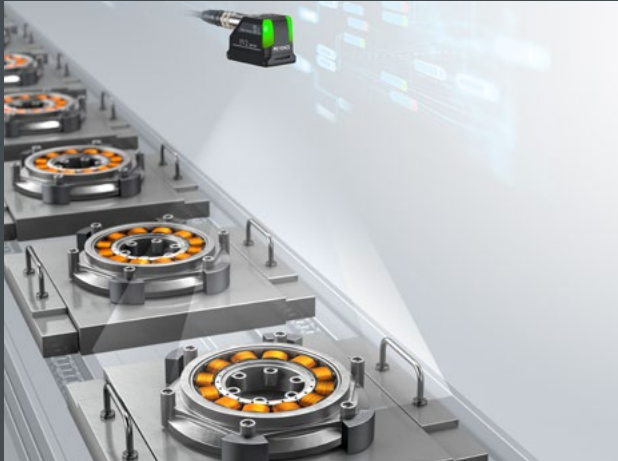
Eliminate false detections due to external factors like oil stains, ambient lighting, and more.

Ignore oil on part

Ignore glare or lighting changes

Image-Based Laser Sensors

Determine correct target height and seating even if your product rotates, tilts, or has low contrast.
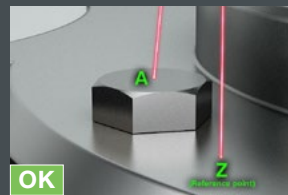
OK
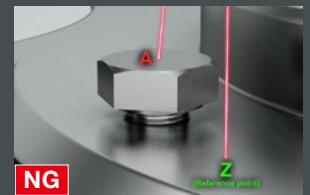
NG

Static Eliminators

Eliminate problems such as particle adhesion, electrostatic discharge, and operators receiving shocks. Automatic setup with clear visual indication of static elimination.

Contact Sensors

Rugged contact probes that last over 200 million cycles in tough environments.

Laser Position Sensors

Confirm and measure position, regardless of the target's color or finish.

Pattern-Matching Sensors

Area-based presence/absence and pattern matching with a visual display.

Code Readers

1D/2D Code Readers

- Industry-Leading Barcode Reading Performance
- Traceability Solutions for Every Industry
- Simple and Intuitive Setup

KEYENCE is dedicated to providing solutions for traceability and product management. A full line of 1D and 2D code readers, along with dedicated control and communication devices, ensure complete and reliable solutions for every industry including logistics, automotive, and food and packaging.
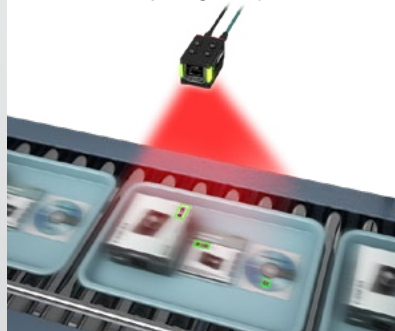
Handheld

Challenges with conventional handheld code readers, such as difficult setup and slow, unstable operation are overcome by the SR-G100 Series innovative design and decoding engine. Activating automatic setup ensures that even challenging direct part marked codes are read quickly and reliably.
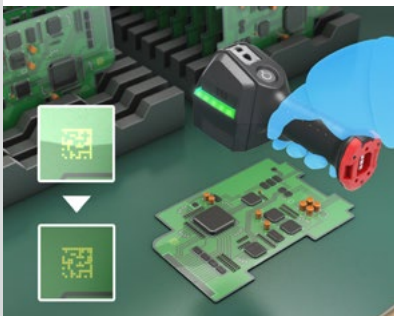
Fixed Mount

With just the push of a button, SR Series code readers automatically find the optimal focus, lighting, and decoding parameters to ensure stable operation on even the most difficult codes. Easily reads codes at high speeds, long ranges, and varying heights without requiring readjustment.

Mobile Computer

The BT-A Series is the newest product in the line-up, offering instant reading of near and far codes, now available on the Android™ operating system. The BT-A Series of handheld mobile computer has a unique one-handed design, making it the ultimate device for improving work efficiency.

Laser Markers / Continuous Inkjet Printers

Laser Markers

| Fiber, Hybrid, UV, Green, and CO_2 models
| Built-in Multi-Function Camera
| Maintenance-Free
| Up to 4× the Normal Expected Laser Life

KEYENCE's diverse collection of laser markers can overcome nearly any application. The new MD-X2 series takes marking technology even further by offering built-in vision, full-field autofocus and data-driven analytics.

Common Applications

Automotive Parts

PC Boards

Instrument Switch Panels

Medical Devices

Continuous Inkjet Printers

| Simple, Reliable, Predictable
| Automatic Self-Diagnosis and Cleaning
| Remote Operations and E-Mail Notifications
| IP Rated and Drop-Resistant Print Head

MK-G is the world's first self-troubleshooting continuous inkjet printer. Its ability to automatically perform diagnostics, self-cleaning and take corrective actions ensures a stable startup every time. This simplifies demanding inkjet maintenance tasks down to just the push of a button.

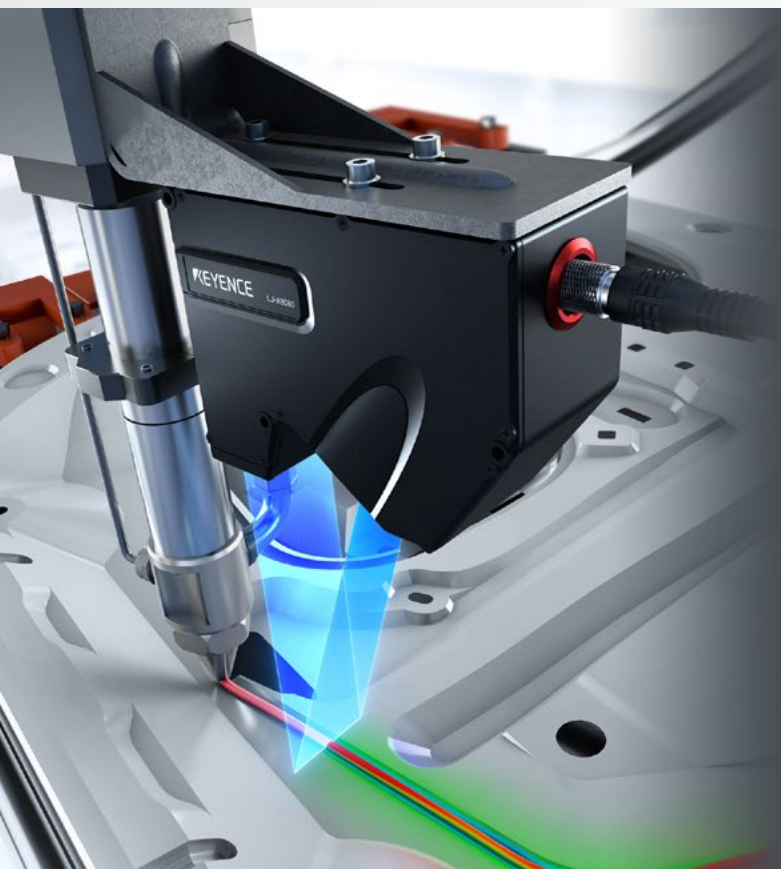**Common Applications**

Plastic bottles
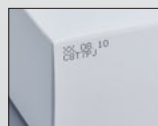
Cartons

Packaging film

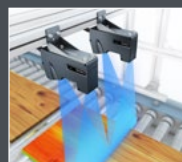Pipes

Measurement Sensors

2D & 3D Laser Profilers

▌ Measure

▌ Inspect

▌ Detect

2D/3D laser profilers provide a versatile solution for measurement and inspection of any material. These non-contact sensors are fast enough for inline use, and accurate enough for quality control.

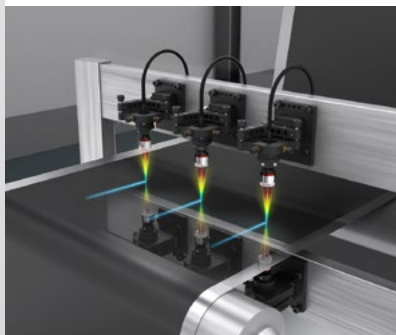### Common Applications

2D measurement   2D inspection   3D inspection

Displacement Sensors

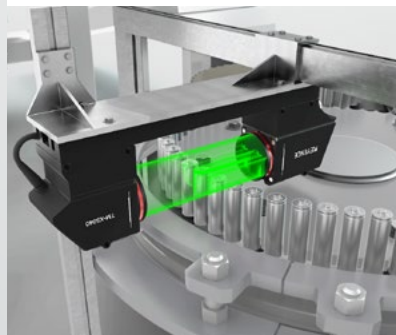A complete lineup of confocal and triangulation sensors to fit any specification.

▌ Position

▌ Thickness

▌ Height

Optical Micrometers

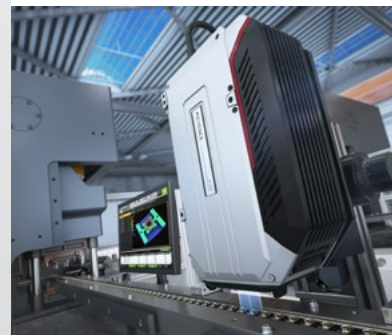1D and 2D micrometers to accurately measure any object within the beam.

▌ Diameter

▌ Runout

▌ Gap

Interferometers

Realtime 3D measurements of small features for both inline and offline use.
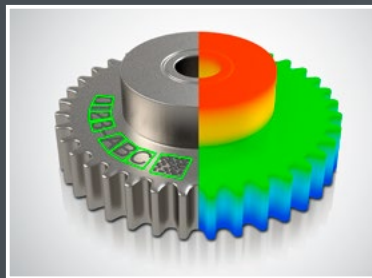
▌ Flatness

▌ Coplanarity

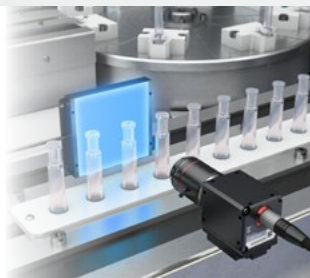▌ Volume

Machine Vision Systems

World's Most Complete Vision Lineup

| High-Speed, Multi-Camera System

| Industry Leading NEW 64MP Camera to Cover Large Areas

| Small Cameras to Fit in Any Manufacturing Process

| 2D and 3D Inspection Capability

Standard Vision Applications

Automate everyday inspection using established technology.

Advanced Vision Applications

Solve challenging applications using state-of-the art imaging technology with updated 3D cameras and inspection tools.

Line Scan Technology

Ultra-high resolution cameras for large part, web, and continuous inspections.

Vision-Guided Robotics

Perform pick-and-place functions using 2D guidance and unload bins of parts using 3D guidance.

Microscopes & 3D Measurement Systems

Digital Microscope

| **4K Image Resolution**

| **20× Larger Depth-of-Field**

| **Wide Range of Magnification up to 6000×**

The VHX Series is the world's first 4K resolution imaging and measurement system that provides the highest level of image clarity and flexibility, while streamlining communication between every user.

3D Surface Profiler

The VK-X Series is designed to capture SEM-like images and perform nanometer-level profile, roughness, and film thickness measurements on any target, regardless of shape or material.

Optical Profiler

The VR Optical Profiler measures profiles, contour, and flatness in as little as 1 second, without contacting the part.

3D Scanner

The VL 3D Scanner offers full 360° scanning with the ability to compare the part directly to its CAD model. Complex and freeform geometries can be easily and accurately measured.
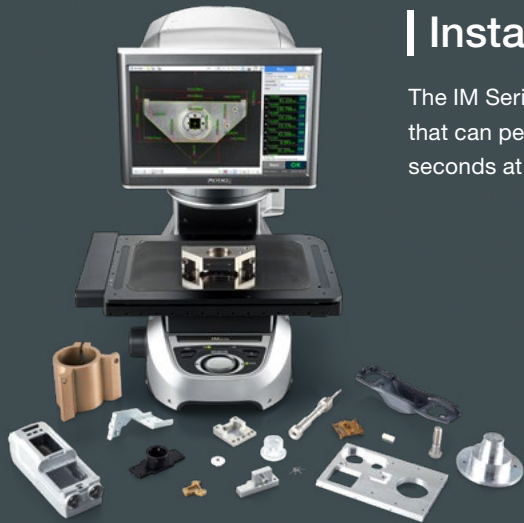
Fluorescence Microscope

The BZ Series is an automated microscope for life science research capable of high-resolution imaging, live cell incubation, well plate screening, and quantification with a single platform.

Metrology

2D Metrology

Instant Measurement System

The IM Series is an automated optical comparator that can perform hundreds of measurements in seconds at the push of a button.

High-Accuracy Measurement System

The LM Series is a high-accuracy measurement system that allows operators to achieve submicron-level accuracy.

3D Metrology

Handheld CMM

The XM Series is a portable, benchtop CMM designed to allow anyone to accurately measure 3D/GD&T features.

Wide-Area CMM

The WM Series allows users to easily measure up to 32 ft parts, or parts while they remain in the machine tool.

Corporate Information

Global Headquarters: Osaka, Japan
Founded: May 1974
Capital: 281,078,000 USD
2020 Global Sales: 4,937,013,000 USD
Worldwide Employees: 8,380

Note: US dollar amounts are converted from Japanese yen for convenience only
at 109 JPY = 1 USD, the approximate exchange rate on March 20, 2021.
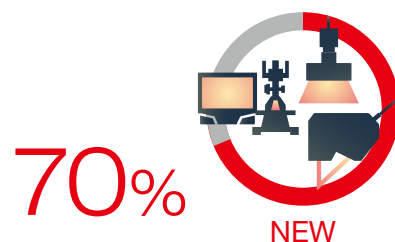
Global Network

230 Offices in 46 Countries

300,000+ Clients

Around the World

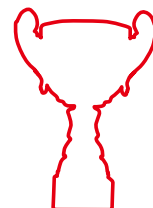## Products featuring World's First or Industry's First Technology
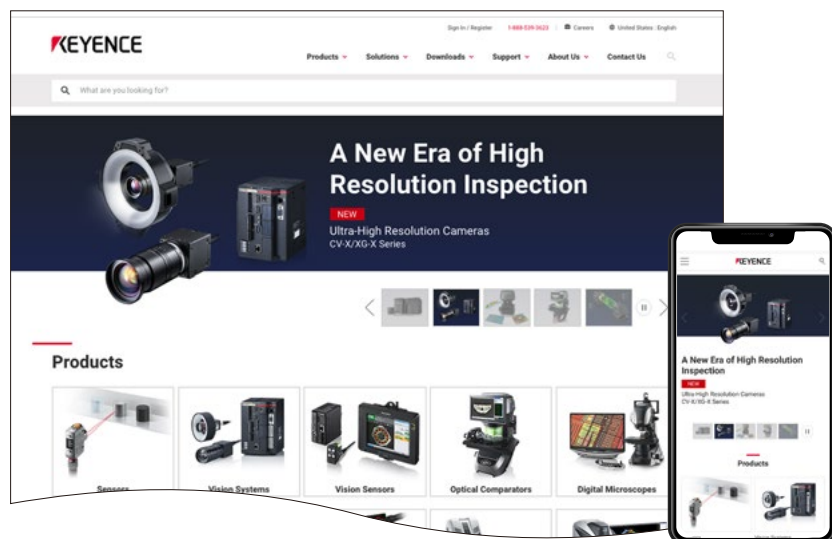
70%

NEW

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The World's Most Innovative Companies Top 100 – Forbes

NEW **Redesigned and Mobile Friendly**

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900+
Technical Guides
Unlimited instant access to informative and detailed technical guides.

3000+
Product Models
A full catalog of products with specs, manuals, software, and more.

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Resource Sites
Complete knowledge-bases for specific industries, solutions and technologies.

35+
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A growing library of the stories behind how KEYENCE products create revolutionary solutions for customers.

KEYENCE

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TO CONTACT YOUR LOCAL OFFICE
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1-888-539-3623

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⚠ **SAFETY INFORMATION**
Please read the instruction manual carefully in order to safely operate any KEYENCE product.

CONTACT YOUR NEAREST OFFICE FOR RELEASE STATUS

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