

KEYENCE MICROSCOPES WORLDWIDE

WHY IS KEYENCE UNIQUE?

CORPORATE INFORMATION

FACTS

Global Headquarters: Osaka, Japan
 Founded: May 1974
 Capital: 237,500,000 EUR
 2014 Global Sales: 2,589,417,000 EUR
 Worldwide Employees: 4,450

Note: Euro amounts are translated from Japanese yen, for convenience only, at ¥129 = 1 EUR, the approximate exchange rate on March 20, 2015



HISTORY

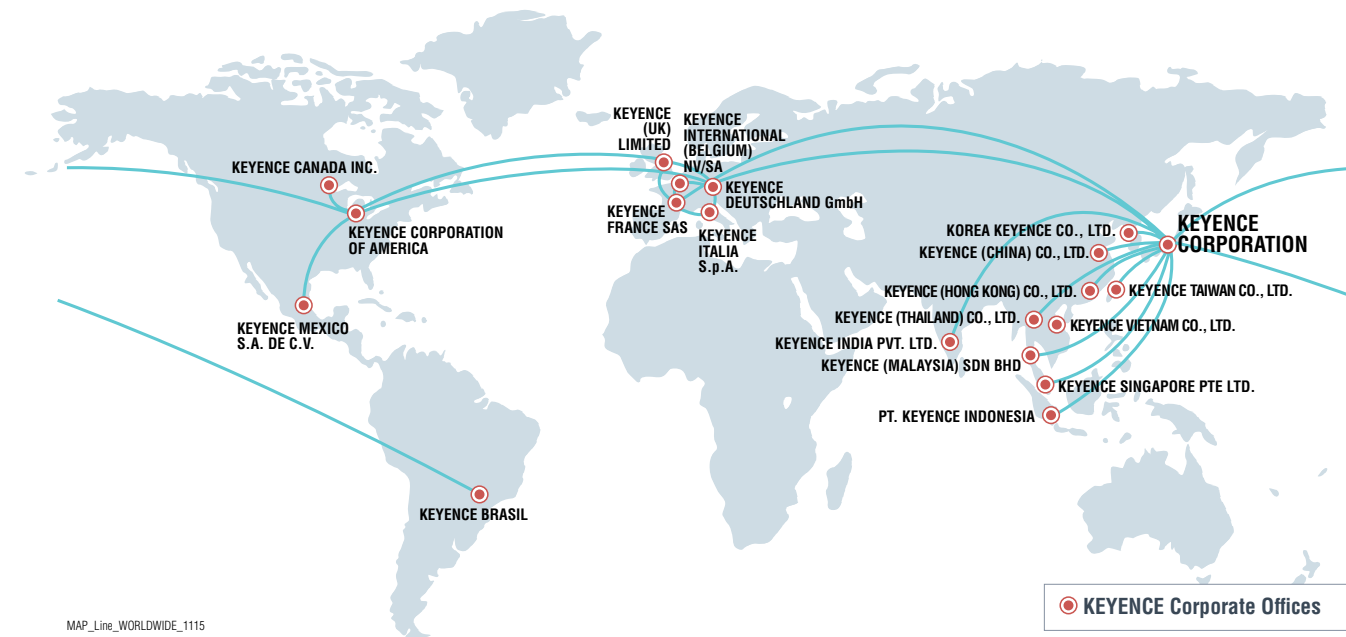
A leader in Sensing Technology since 1974.

- 74" Incorporated as Lead Electric Co., Ltd.
- 83" Developed optical fiber photoelectric sensor
- 86" Developed photoelectric sensor that utilizes laser diode as the light source
 Changed the company name to KEYENCE, which comes from "KEY of sciENCE"
- 90" **Developed microscope with built-in monitor**
- 95" Developed machine vision system
- 99" Developed auto focus color laser microscope
- 00" Developed microscope with digital focusing function
- 02" Developed high-speed / high-accuracy machine vision system
- 04" Developed application PLC
- 05" Developed 3D real surface digital microscope
- 08" Developed microscope with high-speed magnified video capture function
- 09" Newly developed microscope system has real time 2D/3D image stitching function. Newly developed high-accuracy image measurement system
- 12" Developed auto-teaching machine vision system
- 14" Developed VHX-5000 digital microscope, which combines Keyence's technologies for precise measurement, clear observation, and user-friendly software into one system

And still continuing...



WORLDWIDE DIRECT SALES NETWORKS (MORE THAN 200 OFFICES IN 44 COUNTRIES)



MAP_Line_WORLDWIDE_1115

KEYENCE Corporate Offices



CORPORATE & DIGITAL MICROSCOPE PROFILE

VHX Series



DIGITAL MICROSCOPE

VW Series



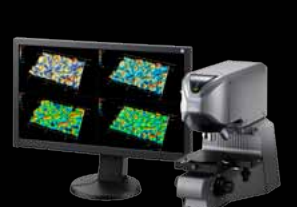
HIGH-SPEED MICROSCOPE

VR Series



ONE-SHOT 3D MEASURING
MACROSCOPE

VK-X Series



3D LASER SCANNING
CONFOCAL MICROSCOPE



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

KEYENCE CORPORATION

AUSTRIA
BELGIUM
BRAZIL
CANADA
CHINA

CZECH REPUBLIC
FRANCE
GERMANY
HONG KONG
HUNGARY

INDIA
INDONESIA
ITALY
JAPAN
KOREA

MALAYSIA
MEXICO
NETHERLANDS
POLAND
ROMANIA

SINGAPORE
SLOVAKIA
SLOVENIA
SWITZERLAND
TAIWAN

THAILAND
UK & IRELAND
USA
VIETNAM

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MORE THAN 10000 COMPANIES ARE SUCCESSFUL WITH

EXCEPTIONAL PERFORMANCE

RANKED 17TH BY FORBES MAGAZINE'S
WORLDS MOST INNOVATIVE COMPANIES

RANK
17
IN THE FORBES
RANKING

THE WORLD'S MOST INNOVATIVE COMPANIES

1. Salesforce.com
2. Amazon.com
3. Intuitive Surgical
4. Tencent Holdings
5. Apple
6. Hindustan Unilever
7. Google

... ..

17. **KEYENCE**

... ..

20. Nintendo

(as of 2011)

NEWSWEEK ELECTRONICS INDUSTRY RANKING

1. IBM
2. HP
3. CANON INC.
4. Panasonic
5. Apple INC.
6. ABB
7. DELL

... ..

39. **KEYENCE**

... ..

42. Rockwell Automation

43. Cooper Industries

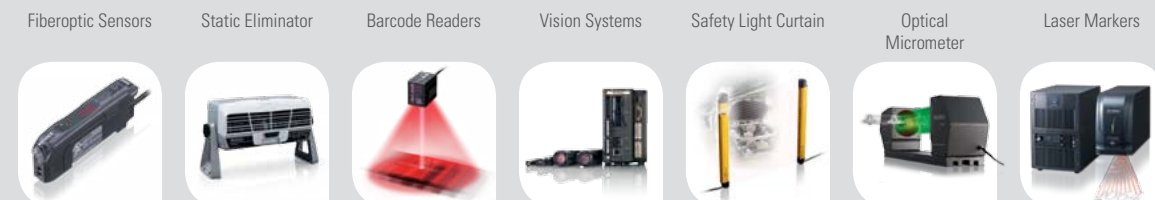
KEYENCE CORPORATION WINS PRESTIGIOUS R&D AWARD FOR VHX-1000 DIGITAL MICROSCOPE AND VR-3000 ONE-SHOT 3D MEASURING MACROSCOPE

As the market leader in digital microscopy, KEYENCE Corporation has been recognized by R&D Magazine for its developments in the field of microscopy and awarded with an R&D 100 Award. Regarded by many as the "Oscars of Innovation", the R&D 100 Awards acknowledge and showcase the top 100 technology products of the year.



SENSING, VISION, MEASUREMENT, LASER MARKERS & MICROSCOPE PRODUCTS

Developing Industry Leading Products through Intense In-house Research and Development



QUICK AND ACCURATE OBSERVATION

DIGITAL MICROSCOPE – VHX SERIES

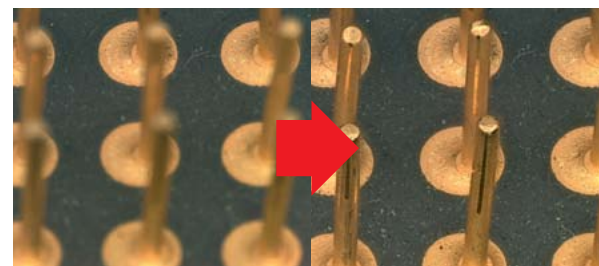


STANDARD MODEL – VHX-5000

- All-in-one microscope that incorporates observation, image capture and measurement capabilities
- Large depth-of-field & clear 3D imaging
- Motorized XYZ controls for simplified operation
- A depth composition image is created in one second at the fastest
- Intuitive user interface and easy operation
- Advanced 2D and automated area measurement functions



BASIC MODEL – VHX-900F



Small depth-of-field

Large depth-of-field



Handheld observation



Free-angle observation system

CAUSE INVESTIGATION – HOW DID IT HAPPEN?

HIGH-SPEED MICROSCOPE – VW SERIES



HIGH-SPEED OBSERVATION

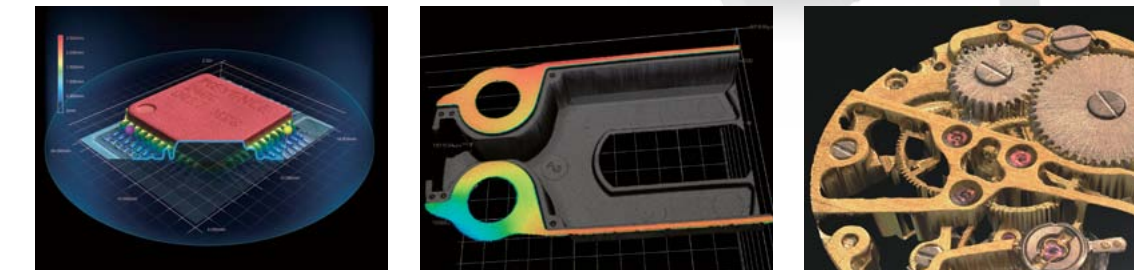
All-in-one high-speed imaging solution



- Record at up to 230000 frames per second
- Fully-integrated system with built-in light source and LCD
- Setup and record in minutes
- Error Monitoring Function automatically detects changes in motion
- Quantify and analyze moving objects
- Provides on-site, magnified observation with microscope functionality

PRECISE MEASUREMENT IN SECONDS

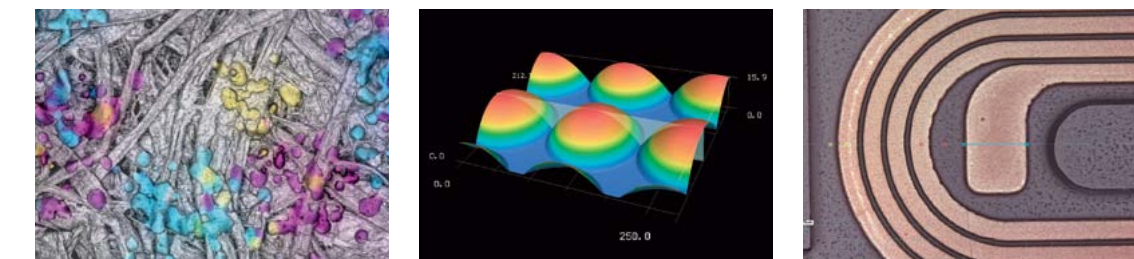
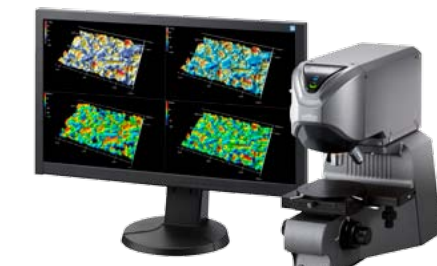
ONE-SHOT 3D MEASURING MACROSCOPE – VR SERIES



- 3D measurement of large areas in 4 seconds at the fastest
- User-independent "Place and push 3D measurement"
- Triple telecentric lenses for enabling accurate measurement of curvature, flatness, angle, and radii
- Can also be used for routine observations
- Various measurement/analysis functions including reference surface setting based on any surface area

MORE DETAILED ANALYSIS OF CAUSE

3D LASER SCANNING CONFOCAL MICROSCOPE – VK-X SERIES



Ink toner (1000x)

Radius-of-curvature of a micro lens (1000x)

Electronic device pattern (1000x)

- 60x to 28800x magnification
- High-resolution, large depth-of-field observation
- Profile and roughness measurements with minimal sample preparation
- Measures thickness and uniformity of clear layers
- Acquires data on angles up to 87.1 degrees
- Perform measurements with just a single click of the mouse