KEYENCE

Image Dimension Measurement System

IM-6225 Series

Wide-field/Programmable ring-illumination model

IM series

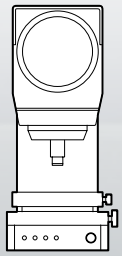
INSTANT MEASUREMENT

DIMENSIONAL MEASUREMENT IN A NEW LIGHT

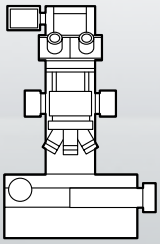
REWRITING THE BOOK ON DIMENSIONAL MEASUREMENTS

Image Dimension Measurement System

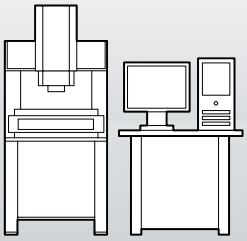
IM series



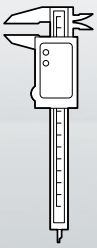
Optical comparator



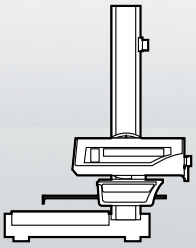
Measuring microscope



Optical CMM



Hand caliper/
micrometer



GD&T and profile
measurement system

Programmable ring-illumination unit

INDEX

COMMON PROBLEMS WITH DIMENSIONAL MEASUREMENTS

SLOW

Measurements take a long time

- Fiddling with jigs for part placement and datum setup is time consuming
- Parts requiring custom jigs introduce additional time and component costs
- An increase in measurements and parts can mean an exponential increase in required time

INCONSISTENT

Varying measurement results depending on the operator

- Changes in focus due to setup by different operators results in inconsistent measurements
- Variation in lighting setup between stations affect the measurement
- Measurements rely heavily on operator judgement and experience

COMPLICATED

Limited number of people can operate the device

- Learning how to operate the measuring instrument takes time
- Features requiring virtual lines or points add a layer of complexity
- Operator error easily occurs in the measurements of items such as rounded parts and curved surfaces

RESTRICTED

Complicated data management

- Requires a PC or other device to perform separate management of measurement results
- May not readily provide data formats such as process capability and trend graphs
- Can be tedious when attempting to compile inspection documentation

WITH THE
IM SERIES

FAST

Measurements performed in seconds

- Automatic recognition of position and origin
- Perform hundreds of measurements with a single press
- Easily perform over 100 measurements simultaneously

CONSISTENT

Uniform measurement results regardless of the operator

- Automated focus adjustment every time
- Automated lighting settings every time
- Automated routine applied every time

EASY

Intuitive interface that anyone can use

- Easily set up measurements with just a few clicks
- Virtual elements such as center lines are automatically extracted
- Dedicated tools make it easy to inspect any shape

FLEXIBLE

Easy data management

- Measurement results are automatically recorded
- Get immediate feedback on trends and variations
- Complete inspection reports in seconds

STEP 1

Place
a target

STEP 2

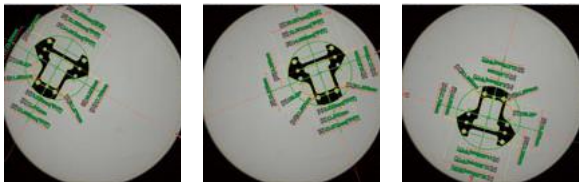
Press
the button

DRASTICALLY REDUCED MEASUREMENT TIME

MEASUREMENTS PERFORMED IN SECONDS

Automatic recognition of position and orientation

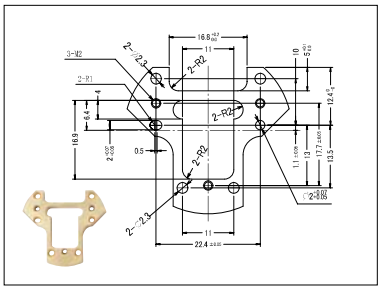
The location and orientation of the target placed on the measurement stage are automatically detected. By finding the part and comparing against the recorded shape, it is possible to perform accurate measurements without the need for precise positioning of the part.



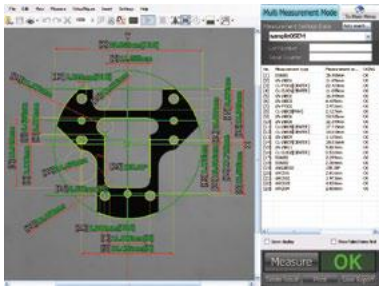
TARGETS CAN BE MEASURED NO MATTER WHERE THEY ARE PLACED WITHIN THE FIELD OF VIEW

Measurement of up to 99 points with a single button press

Hundreds of measurements can be easily performed on a part with just one press of the button.
Even if the number of measurement points is increased, the measurement time remains the same.



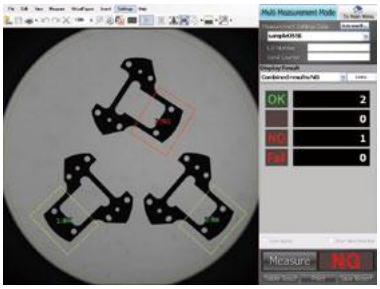
Multiple measurement points specified with a diagram



Hundreds of measurements with a single button press

Easily perform over 100 measurements simultaneously

The dimensions of all targets on the stage are measured simultaneously.
There is no need to measure each target individually.

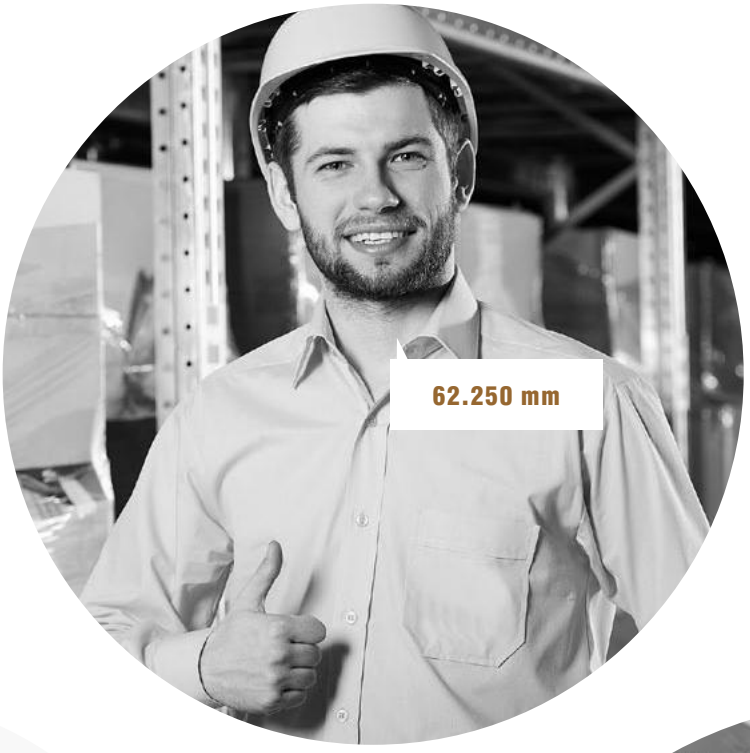


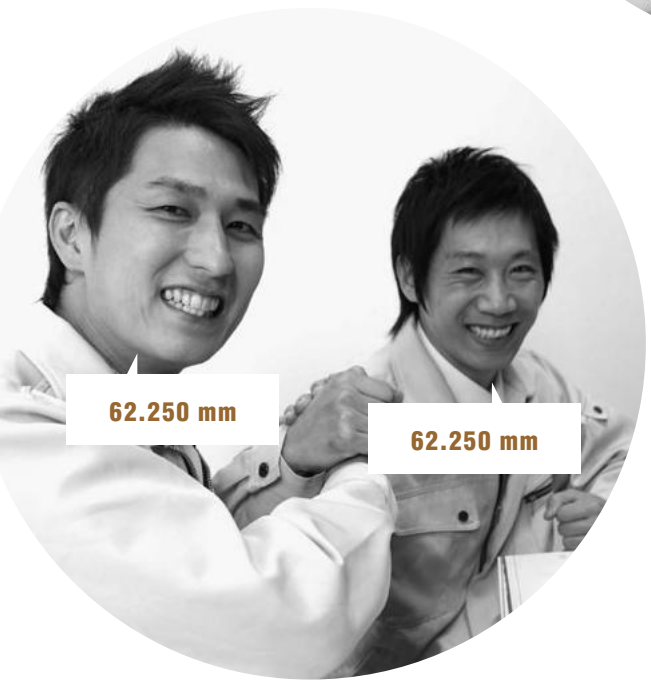
Judgements can be made at a glance thanks to the OK/NG display.

Measurement results can also be viewed just by clicking with a mouse.


62.250 mm


62.250 mm
62.250 mm


62.250 mm


62.250 mm
62.250 mm


62.250 mm

ELIMINATING OPERATOR ERROR

UNIFORM MEASUREMENT RESULTS REGARDLESS OF THE OPERATOR

Automated focus adjustment

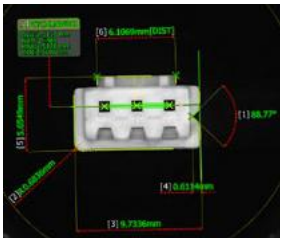
The IM Series is equipped with a specifically designed optical lens with a large depth of field. It is also equipped with an auto-focus function that automatically brings measurement points into focus. This is useful for targets with uneven surfaces for which all the measurement points cannot be brought into focus at the same time.

Automatic focus adjustment with the auto-focus function

Only the upper image is in focus.

Only the lower image is in focus.

Even when the target is out of focus due to height differences ...



The focus is automatically adjusted for measurement.

Automated lighting settings

The IM Series automatically epitomises and saves the lighting conditions so anyone can easily take accurate, consistent measurements.

RECORD THE LIGHTING SETTINGS

SAVE

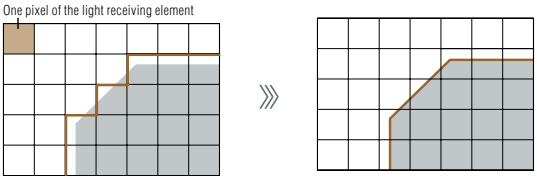
MEASUREMENTS CAN BE PERFORMED USING THE SAME SETTINGS

Automatic edge detection

Sub-pixel processing

By splitting each pixel into 100 or more sub-pixels, the IM Series is able to provide a wide field-of-view while maintaining its high-precision measurement capability.

One pixel is divided into 100 or more squares



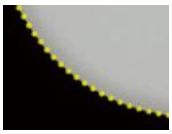
Without sub-pixel processing
The target is measured by one pixel of the light receiving element.

With sub-pixel processing
The target is measured by one hundredth or less of a pixel of the light receiving element.

Shape processing

Lines and circles are extracted using a least squares fitting of 100 or more points.*

*There may be less than 100 points depending on the shape.



Automatic detection of approximately 100 points

Automatic identification of burrs and chips

Burrs and chips found in the detection area are automatically recognized and excluded from the fitting processing as abnormal locations. It is also possible to set the system to interrupt measurement when burrs or chips are found.

Burrs and chips are recognized automatically.

1 CLICK

Easy operations

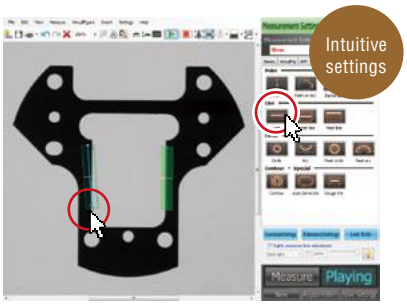
performed with a few clicks

CONFIGURING SETTINGS WITH THE CLICK OF A MOUSE

INTUITIVE INTERFACE THAT ANYONE CAN USE

Easily set up measurements with just a few clicks

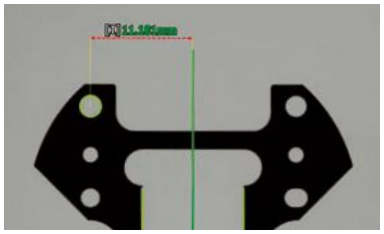
Just select the desired tool from the menu and use the mouse to define a general search region. The tool will then automatically find and snap to the edge.



Select the tool from the menu, and define the general feature location with a few clicks of the mouse.

Easily create virtual figures

Features such as centre lines and virtual lines can also be created just with the click of a mouse. The IM Series will automatically find any necessary features and perform any calculations to ensure accurate feature placement every time.



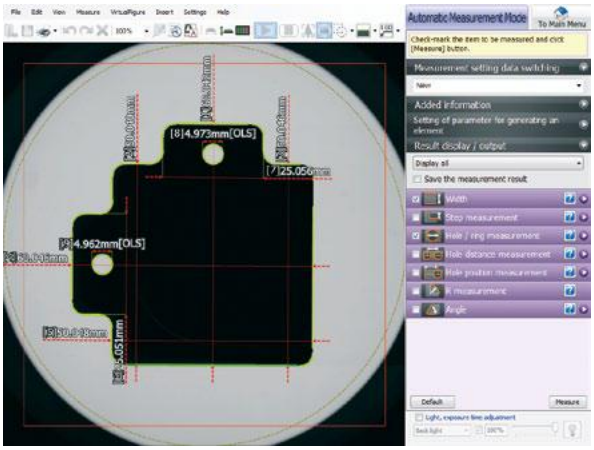
Measurements using virtual centre lines can also be set easily.

Automatic measurement function eliminates need for setup

This function brings new meaning to Place and Press inspection. Simple dimensions can be measured without any prior setup by simply selecting the types of measurements expected. This makes it possible for even the most novice users to start taking fast, accurate measurements.

Just place the target on the stage ...

and select the measurement condition check boxes.



Measurements can be performed easily with just a few clicks.

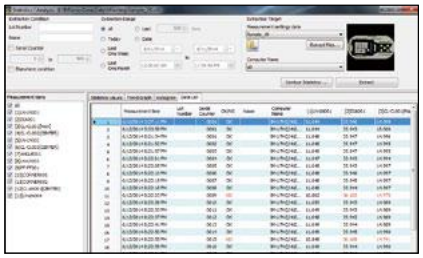

Part report
Measurement results
KEYENCE

THIS SINGLE SYSTEM COVERS EVERYTHING FROM DATA MANAGEMENT TO ANALYSIS

FLEXIBLE DATA MANAGEMENT

Measurement results are automatically recorded

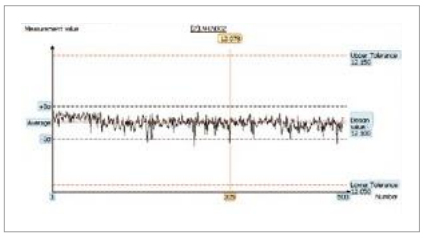
All measurement results and critical identifiers are automatically recorded to simplify data management. The IM Series then automatically calculates and displays critical statistical values such as average, σ, 3σ, 6σ, and Cpk.



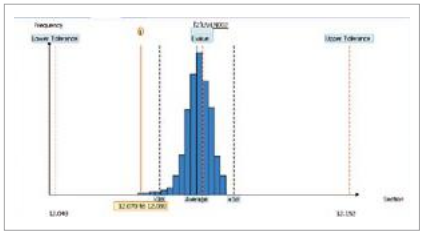
Critical statistical values required for inspection reports are provided by default.

Get immediate feedback on trends and variations

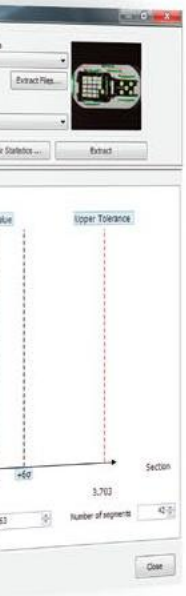
Built-in trend graph and histogram functions allow on site analysis of production trends and variations. Instant feedback lets you stay ahead of your process to prevent quality problems before they start.



The trend graph shows tendencies of a product at a quick glance.

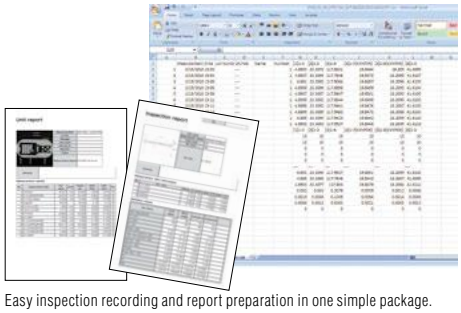


Histogram settings can be adjusted as required.

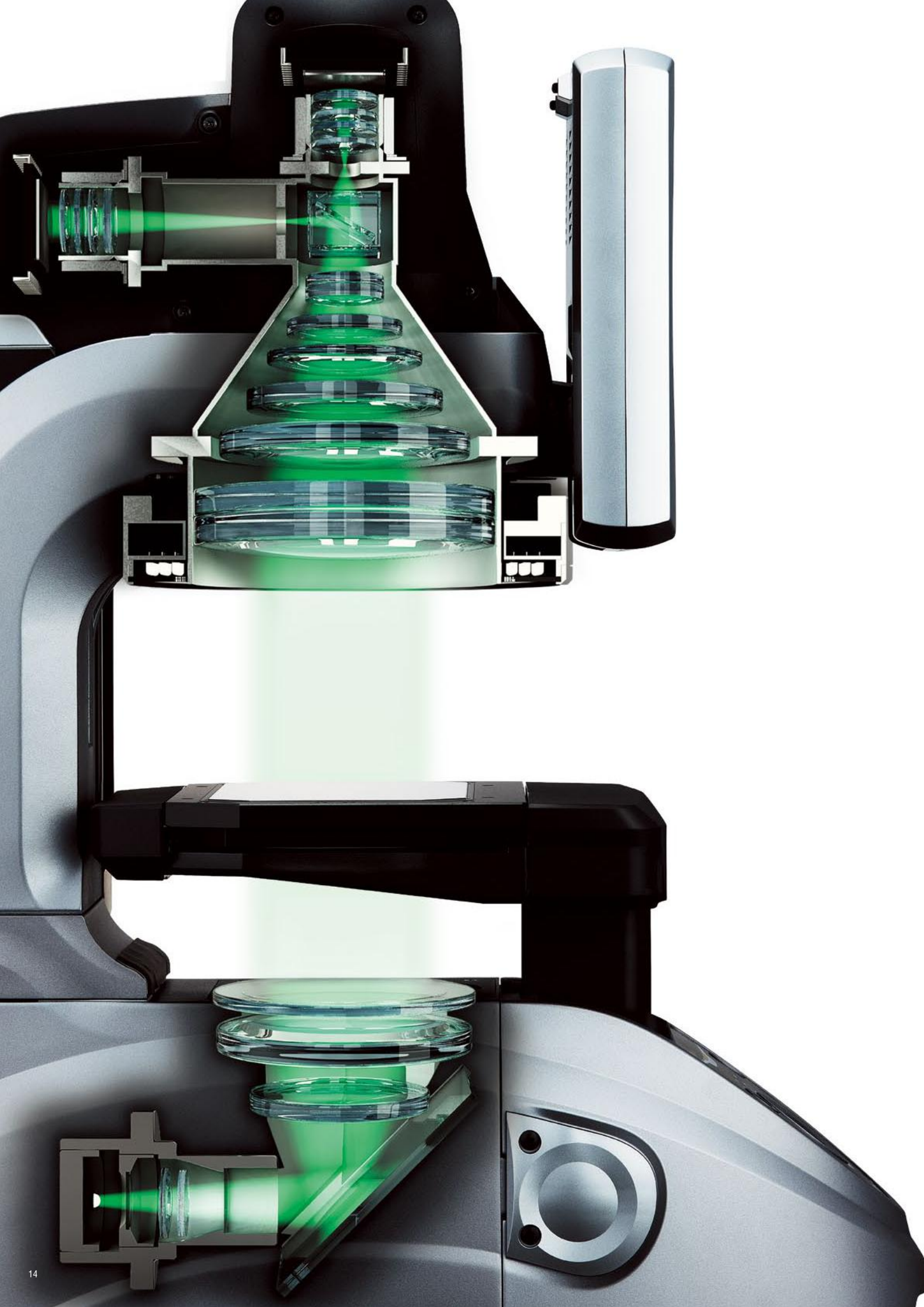


Complete inspection reports in seconds

Complete inspection and analysis reports can be generated at the click of a button. Print reports directly from the IM Series or easily export data in a convenient CSV format for additional processing.



Easy inspection recording and report preparation in one simple package.



PRECISE OPTICS

Clear focus regardless of height differences

The IM Series is equipped with a specially designed lens with a large depth of field to ensure accurate measurements despite height differences on the part.

Zoom lens

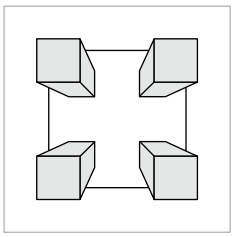
The image is out of focus due to height differences.

IM series

The image is in focus regardless of height differences.

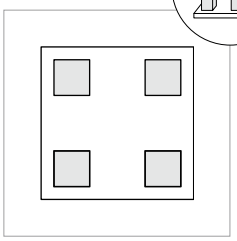
Apparent feature size not affected by height differences

The IM Series is equipped with a telecentric lens, which means that the image size is not affected by the height differences between different parts of the target. This enables accurate measurements of targets with uneven surfaces.



Zoom lens

Accurate measurements cannot be performed due to height differences between different parts of the target.

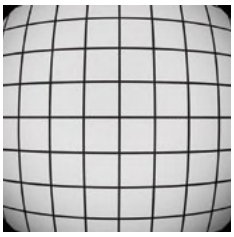


IM series

Accurate measurements can be performed even for targets with uneven surfaces.

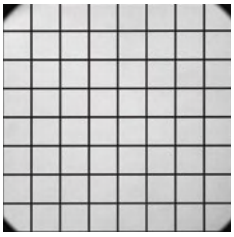
Less distortion throughout the entire field of view

The IM Series is equipped with a low distortion lens designed to not only minimize distortion near the centre, but also at the outer reaches of the field of view. This allows parts to be measured accurately despite placement on the stage.



Zoom lens

The area along the outer edge is shown distorted.



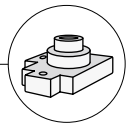
IM series

The image minimizes distortion throughout the field of view.


KEYENCE
IM series
IM-6225
iPASS
POWER
NG
OK
MEASURE
PRINT

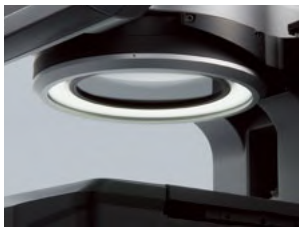
PROGRAMMABLE RING-ILLUMINATION UNIT

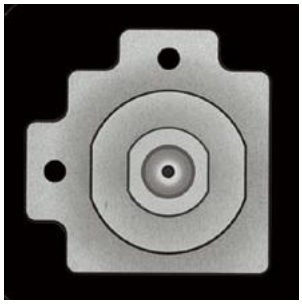
Multiple illumination units all in one



The programmable ring-illumination unit integrates multiple ring illumination functions into a single unit. This allows a wide variety of features to be inspected without the need for lighting changeover to maximize efficiency.

MULTI-ANGLE ILLUMINATION, HIGH



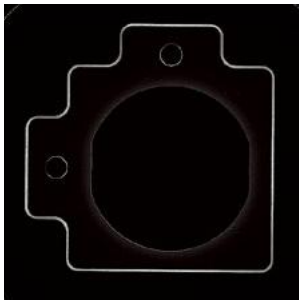


Light strikes all parts of the target in a uniform manner.

MULTI-ANGLE ILLUMINATION, LOW

Contrasts form between the different height elevations of the target.

SLIT RING ILLUMINATION



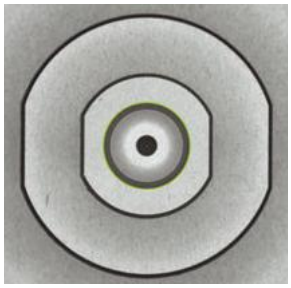
A contrast forms between the target and the edge of its outer circumference.

Automatically find the optimal lighting settings

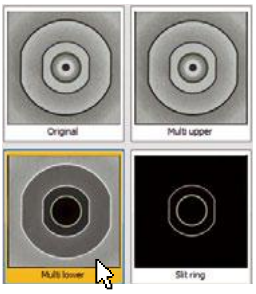
Programmable ring-illumination unit

Optimum lighting search function

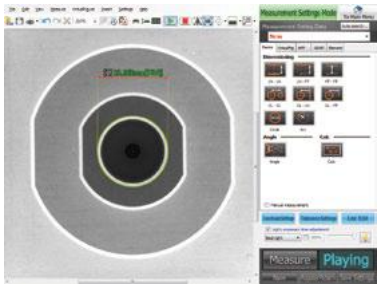
It is often difficult to determine the correct lighting settings for a given feature. The optimal lighting search function simplifies this by showing you the actual images using different lighting techniques so you can simply select the one you want.



Select the feature to optimise.



Select the settings from the automatically captured results.



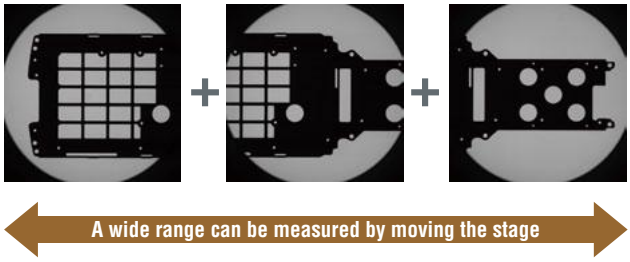
Measurements can be performed easily with the optimum settings.

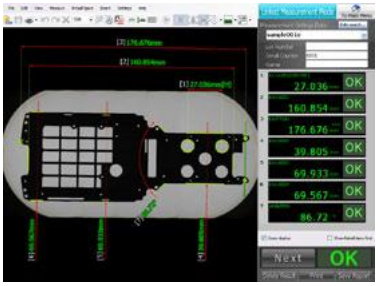

Linked Measurement Mode
To Main Menu
Measurement Setting Data
Auto search...
sample001EN
Lot Number
Serial Counter
0001
Name
File Edit View Measure VirtualFigure Insert Settings Help
50%
[3]176.684mm
[2]160.812mm
[1]27.032mm[H]
[4]39.822mm
[5]69.917mm
[6]69.955mm
1 CL-CL001[CENTER] 27.032 mm OK
2 LN-LN002 160.812 mm OK
3 LN-PT001 176.684 mm OK
4 LN-LN003 39.822 mm OK
5 LN-LN004 69.917 mm OK
6 LN-LN005 69.955 mm OK
7 ANGLE001 86.18 ° OK
Zoom display
Display results in the descending order of errors
Next
OK
Delete Result
Print
Save Report
KEYENCE
IMseries
IM-6225
iPASS
OK
NG
POWER
PRINT
MEASURE

HIGH-PRECISION STAGE

ø100 × 200 mm field of view

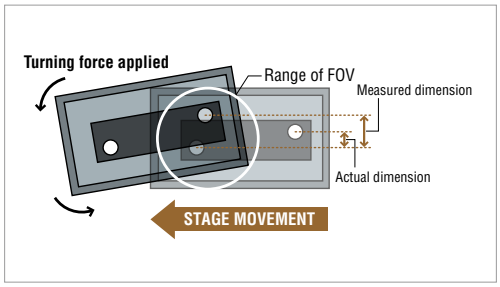
A newly developed high-precision stage enables multiple images to be combined. You can measure a large target even when it is not contained in the same field of view.



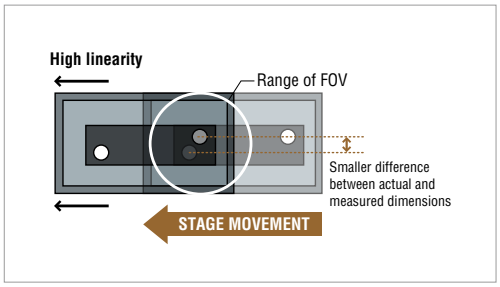


High-precision stage with high linearity

By utilizing precision cross-roller bearings, we are able to offer high accuracy while maintaining increased durability. This eliminates measurement errors due to stage movement.



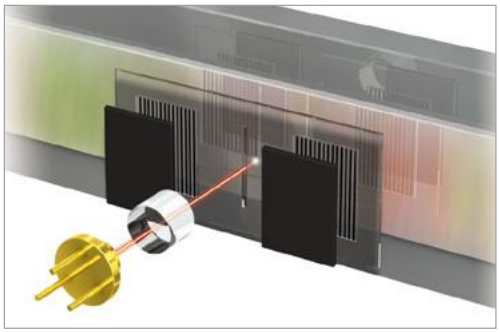
Without adjustment



IM series

Custom high-precision linear scale

A high-precision linear scale designed specifically for the IM Series allows the stage movement to be tracked in micron increments. This makes it possible to perform accurate measurements, even on large parts.



Linear scale module

CAD DATA USAGE, NETWORK FUNCTION, ETC.

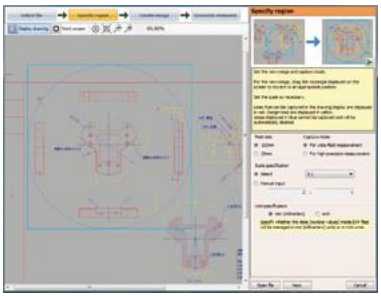
SOFTWARE FURTHER IMPROVES IM SERIES USABILITY

IMPORT CAD DATA

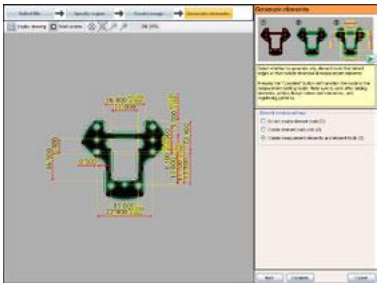
Optional: IM-H1C

CAD import module

The data required for measurements can be acquired from CAD drawing data in DXF format. Even when a target is not at hand, it is still possible to quickly create measurement setting files.



CAD import module
*Measurement setup editor (IM-H1EE) is also required.



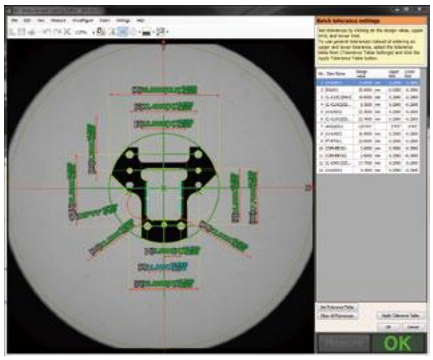
Measurement setting data

CONFIGURING SETTINGS FROM A PC

Optional: IM-H1EE

Measurement setup editor

Programs can be easily created and modified from your desk with the measurement setup editor. Programming from your desk allows the IM to be used for measuring without interruption.

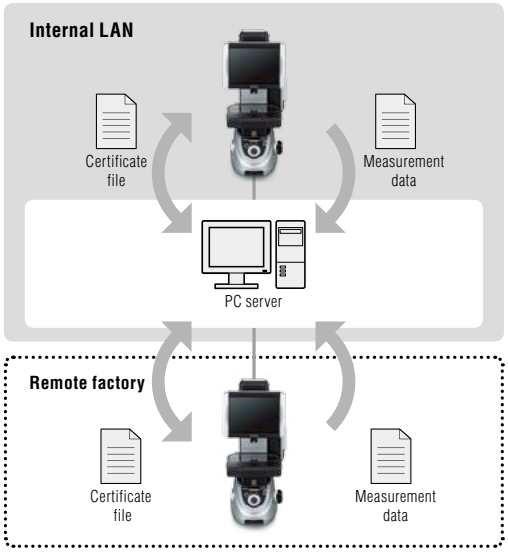


Measurement settings

COMMUNICATING WITH PCs

Data transfer over a LAN connection

A LAN connection can be used to easily synchronize settings files and measurement data to a PC, other IM's, or even units at remote locations.



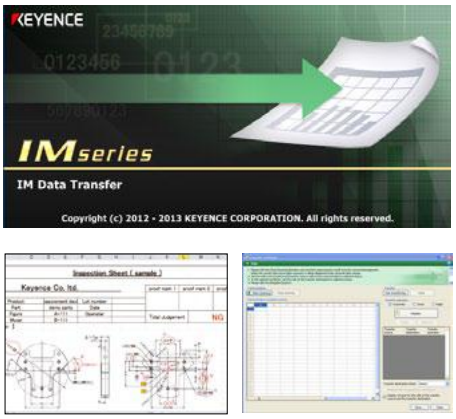
Connection methodd	Output format
LAN	CSV File, HTML, QDAS Format
RS-232C	ASCII Format

CUSTOMIZING INSPECTION RECORDS

Optional: IM-H1T

Data transfer software

Measurement results can be automatically sent to Microsoft® Excel in a user-defined, custom format.

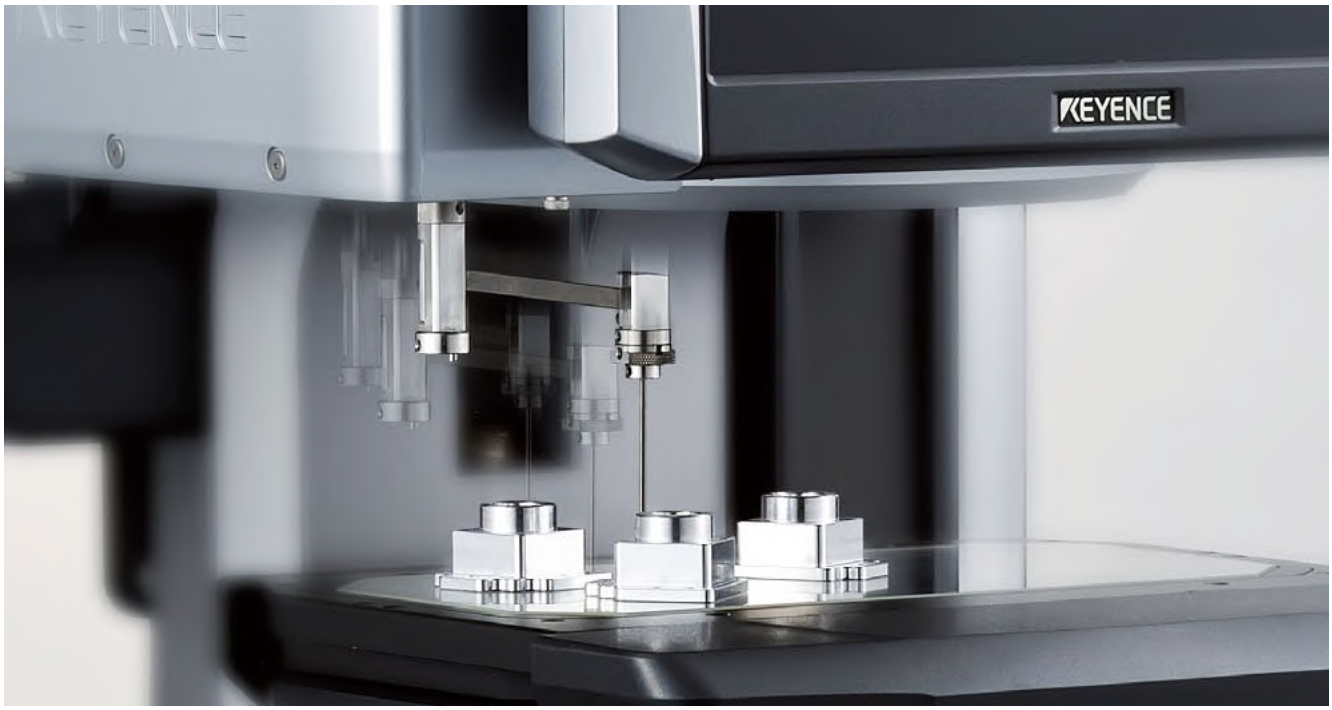


Statistics/analysis viewer

Easily view results, analyse trends, and generate inspection reports from any PC with the statistics/analysis viewer.

CONTACT HEIGHT MEASUREMENT UNIT

IM-6225T

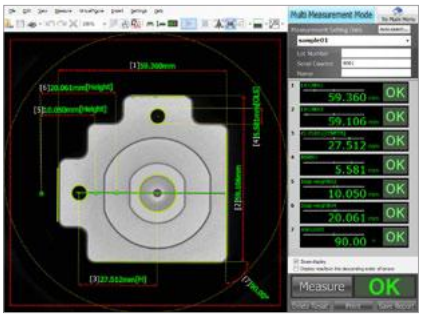


Place-and-press measurement system

This contact height measurement unit reduces the time spent using separate measuring instruments for different measurement points and the effort spent in recording measurement results. The pattern search function can be used to automatically recognize and measure the height (depth) measurement points specified in advance. This function greatly reduces the time spent performing tasks related to measurement, such as the creation of operating procedures and the training of operators. In addition, strengthening measurement results can lead to improvements in the overall efficiency of measurement work.

Just place the target on the stage and press the button.

The probe performs automatic measurements.

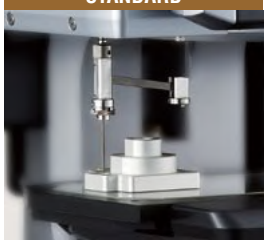


The height measurement result is displayed.

SPECIFICATIONS

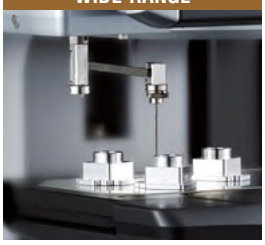
		Standard probe	Wide-range probe
Measuring force		0.3 N	
Measurable area (XY)	Wide field	45 × 95 mm	95 × 95 mm
	High precision	7.5 × 25 mm	60 × 25 mm
Repetition accuracy		±2.0 µm	±5.0 µm

STANDARD



Standard probe position

WIDE-RANGE



Wide-range probe position

INCREASING MEASUREMENT STABILITY

MEASUREMENT SUPPORT TOOLS

Precision fixturing base

Optional: OP-87761 (for long objects) | Optional: OP-87501

Use these jigs to secure the target in place. These options are useful when measuring targets such as those that sit at an angle when placed on the measurement stage.

OP-87761
Precision fixturing base
(for long measurement targets)

OP-87501
Precision fixturing base

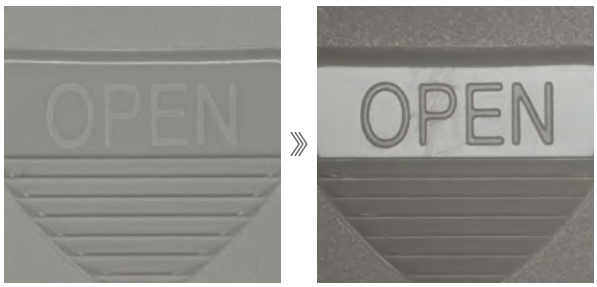
PERIPHERAL EQUIPMENT

EXTERNAL ILLUMINATION

Coaxial illumination

Optional: IM-DXW12

This dedicated coaxial illumination unit has been designed to match the stage movement function of the wide-field and programmable ring-illumination model. The coaxial light is effective when attempting to measure features on glossy targets.



Plastic moulding (ring illumination) Plastic moulding (coaxial illumination)

FOR FIELD USE

PERFORMANCE AND RELIABILITY

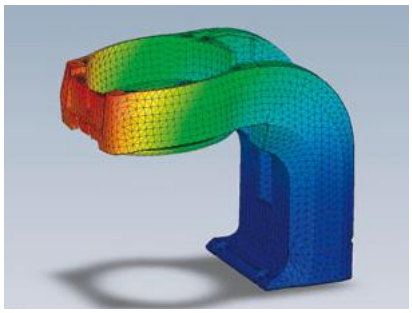
Traceability system diagram

The reference scales used for manufacturing, inspection, and calibration conform to the reference scale of JCSS accredited calibration laboratories to establish traceability back to the national standard.

International standard	National Metrology Institute of Japan (NMIJ) of National Institute of Advanced Industrial Science and Technology
JCSS accredited calibration laboratory	Reference scale
Secondary standard	Precision coordinate measuring instrument
Common standard	Reference scale
Measuring instrument to be calibrated	IM Series image dimension measurement system

Highly rigid body and temperature sensor ensures practical installation anywhere

The highly rigid body and built-in temperature sensor have enabled installation anywhere. Deformation is limited as to not affect measurement and temperature compensation ensures accurate measurement in the field.

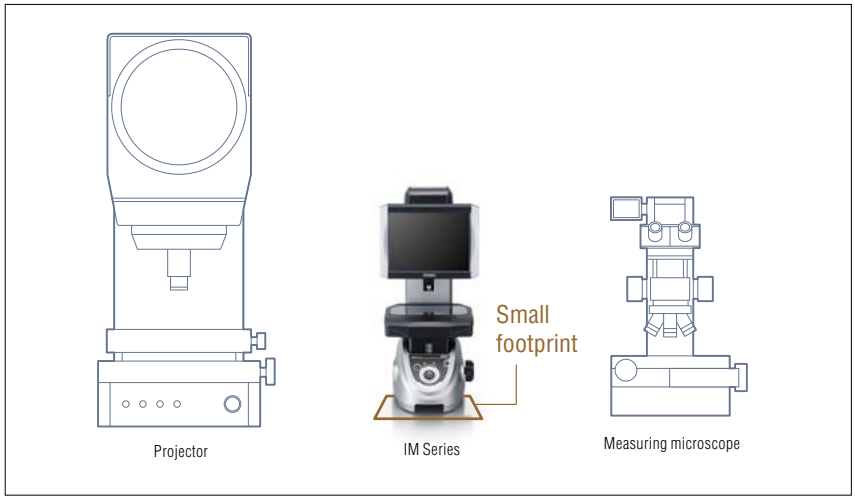


Frame strength analysis diagram

Temperature sensor ensures more stable measurement.

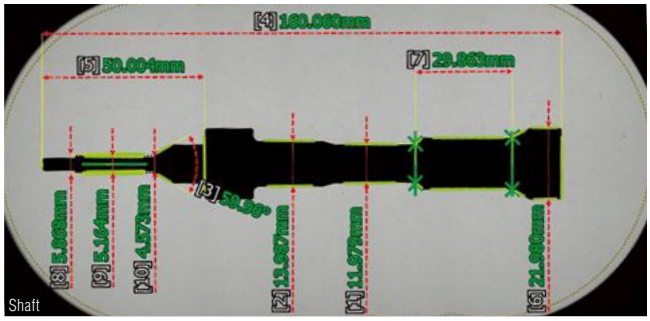
Space-saving design small footprint

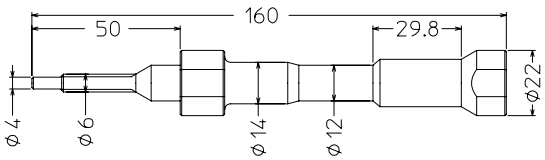
In addition to the compact body, the built-in monitor saves significant space, allowing the IM Series to be installed anywhere. These important features allow you to take your lab to the production line for immediate part feedback.



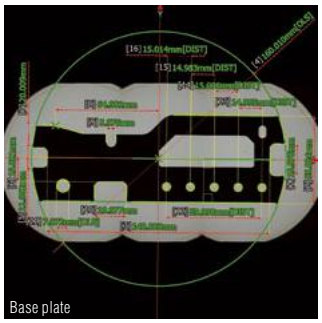
IM SERIES APPLICATION EXAMPLES

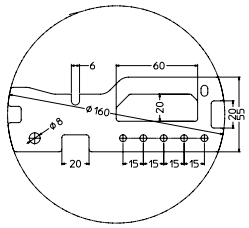
LATHE PROCESSING AND CUTTING

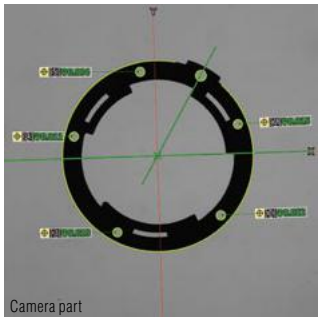

Shaft

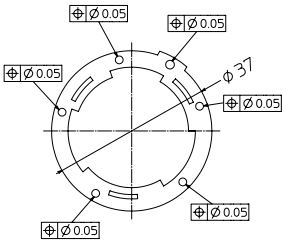


PRESSING

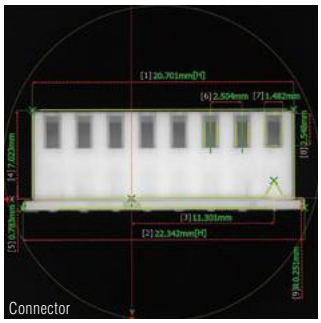

Base plate

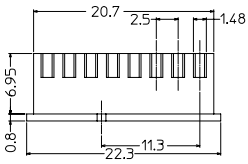



Camera part

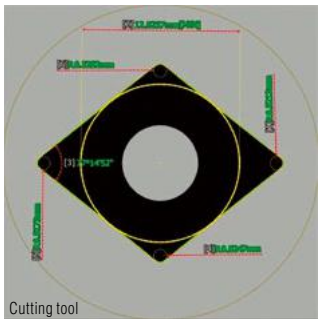


RESIN MOLDING

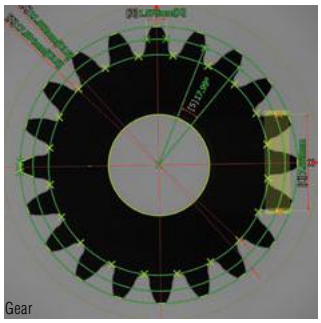

Connector



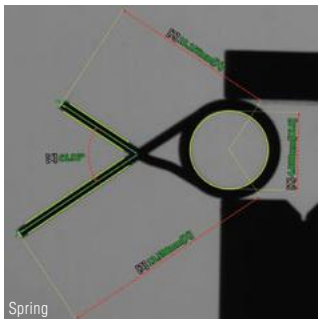
SINTERING

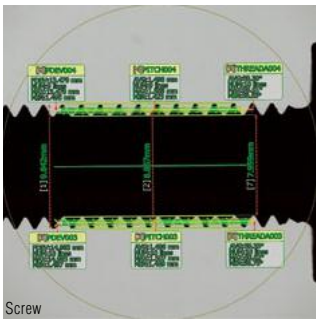

Cutting tool

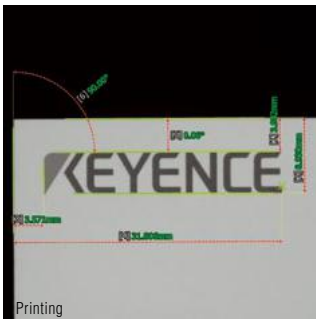
COLD FORGING


Gear

OTHER PROCESSING


Spring


Screw



Printing


Moulded object (profile tolerance)

VARIOUS APPLICATIONS FROM ACCEPTANCE INSPECTIONS TO SHIPPING INSPECTIONS

HIGHER PRODUCTIVITY AND RELIABILITY THROUGH THE INSTALLATION OF THE IM SERIES

1 IN-PROCESS INSPECTIONS

PRODUCTIVITY IMPROVEMENT

MEASUREMENT SPEED

- Spend less time taking measurement and more time optimizing your process.

EASY SETUP

- Give everyone the capability to perform accurate inspections.

2 PRECISE QUALITY INSPECTIONS IN LABORATORIES

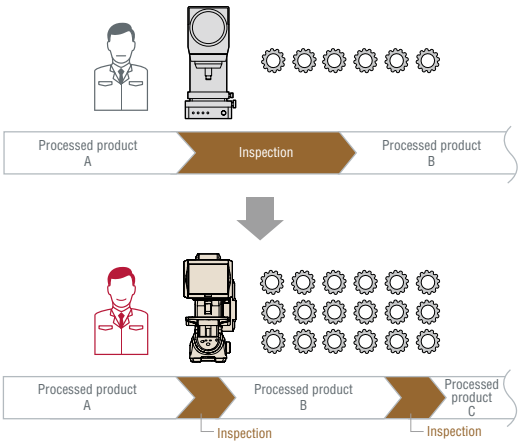
RELIABILITY IMPROVEMENT

EASY DATA MANAGEMENT

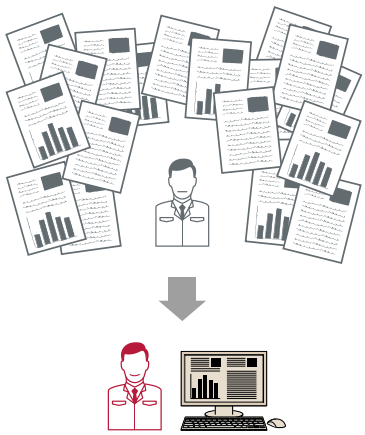
- Utilize automatic data recording to optimise your quality control system.
- Eliminate the risk of being caught without proper inspection reports.

MEASUREMENT ACCURACY

- Quality can be guaranteed with uniform standards.
- Accuracy can be guaranteed by way of the calibration certificate.

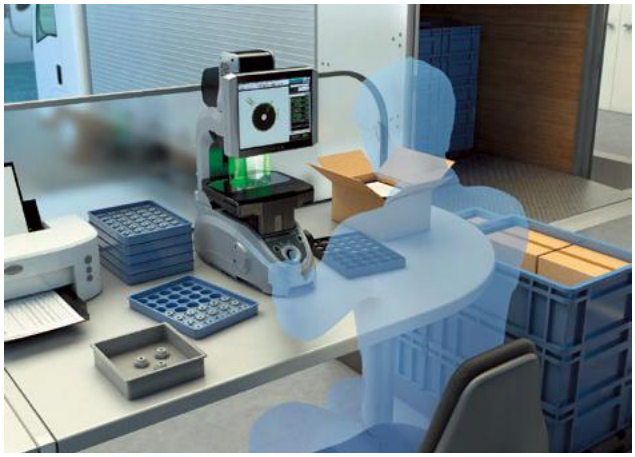


Shortened inspection time leads to an increase in the number of products made.



Improved reliability leads to your customers trust and continued business.

3 PRE-SHIPPING INSPECTIONS



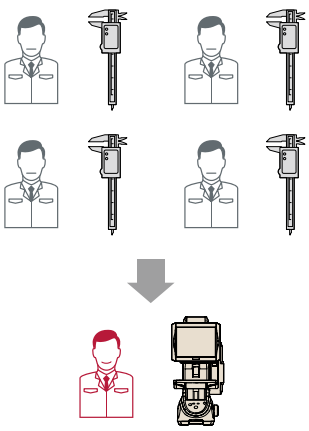
REDUCED LABOUR COSTS

EASY SETUP

- Inspection time can be shortened.
- The time spent training inspectors can be reduced.

EASY DATA MANAGEMENT

- The time and effort spent creating inspection records can be reduced.
- The time and effort spent aggregating information and creating databases can be reduced.



Reduce inspection time and free up personnel to improve your process.

4 INCOMING INSPECTIONS

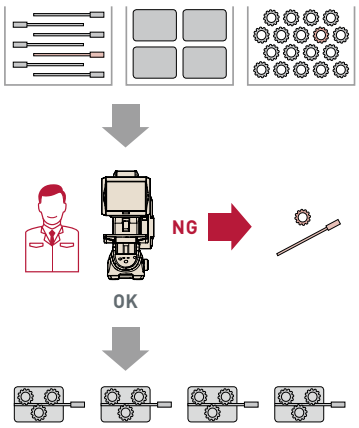
YIELD IMPROVEMENT

MEASUREMENT ACCURACY

- When handling incoming inspection of a variety of parts, the IM Series eliminates variations between operators and provides uniform standards.

MEASUREMENT SPEED

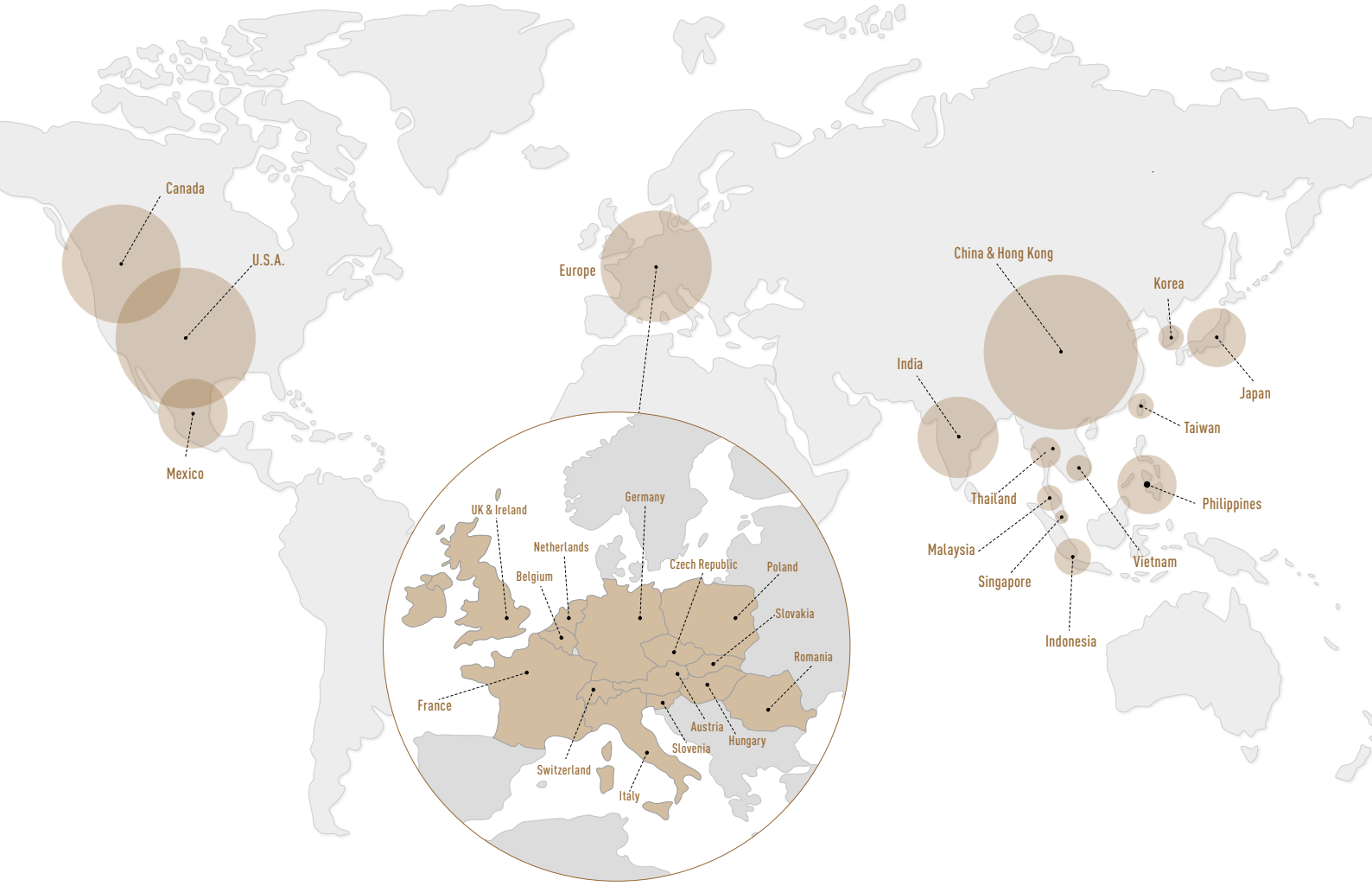
- Inspect more parts without spending more time.
- Inspect parts you previously didn't have time for.



Defective products do not enter into later processes.

COMPREHENSIVE COVERAGE ALL OVER THE WORLD

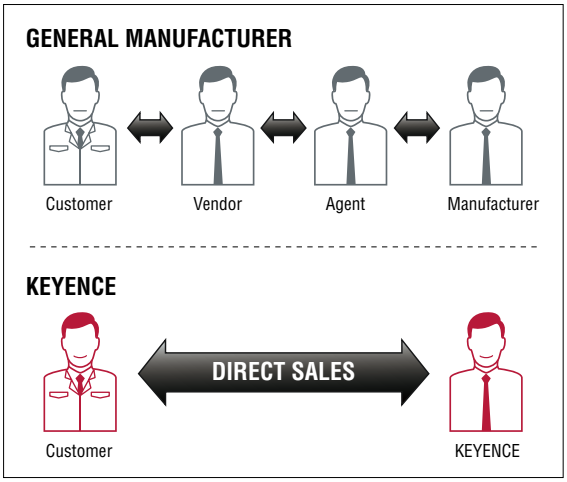
GLOBAL SUPPORT SYSTEM



Austria	Belgium	Canada
China & Hong Kong	Czech Republic	France
Germany	Hungary	India
Indonesia	Italy	Japan
Korea	Malaysia	Mexico
Netherlands	Poland	Romania
Singapore	Slovakia	Slovenia
Switzerland	Taiwan	Thailand
U.S.A.	UK & Ireland	Vietnam

Quality support only possible with a direct sales system

Our comprehensive after-sales support through technical sales representatives can only be achieved by our direct sales system. You can be confident that you will get the support you want immediately, without the hassle and delay of dealing with reps or distributors.



Support in various languages

Not only operation screens on the main unit but also other materials such as the instruction manual are available in various languages. After introduction into overseas production sites, local staff can also use this system smoothly.

SUPPORTED LANGUAGES

English	Chinese (simplified)	Chinese (traditional)
French	German	Italian
Japanese	Korean	Spanish
Thai		

Instant delivery system even for overseas

A wide variety of products are stocked at distribution sites in each country so that they can be delivered promptly on the day we receive your order. You do not need to worry about if it may take considerable effort and time to obtain a product from an overseas factory.

CONNECTIONS TO DIVERSE MACHINES POSSIBLE

SYSTEM CONFIGURATION

OPTIONAL ILLUMINATION

IM-DXW12
Scanning coaxial illumination (optional)

OP-87868
IM illumination bracket (for IM-DXW12) (optional)

IM-DXW12T
Scanning coaxial illumination (for IM-6225T) (optional)

STAGE GLASS

OP-87677
Stage glass (optional)*1

OP-87678
Sapphire glass (optional)

OP-87981
Sapphire glass (for IM-6225T) (optional)

OP-87679
Offset stage (optional)

OP-87965
Offset table (optional)

STYLUS

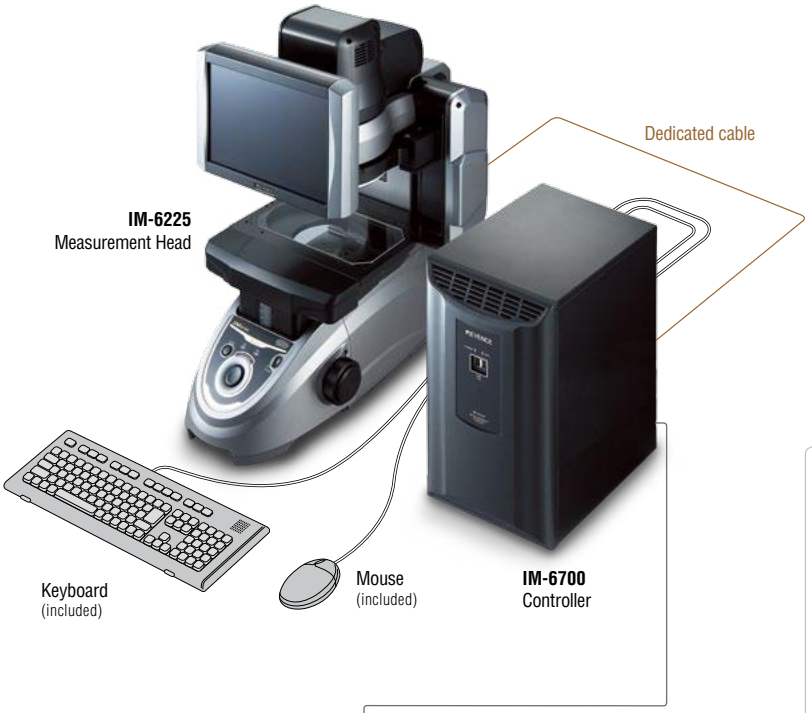
OP-87979
IM stylus*2 (for IM-6225T) (optional)

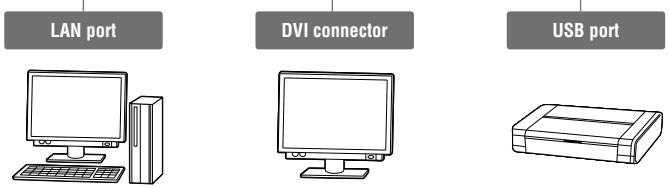
OP-88019
IM flat stylus (for IM-6225T) (optional)

PRECISION FIXTURING BASE

OP-87761
Precision fixturing base for long measurement targets (optional)

OP-87501
Precision fixturing base (optional)





IM-H11V
Statistics/analysis viewer (included)

IM-H1EE
Measurement setup editor (optional)

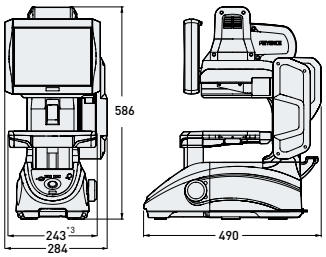
IM-H1C
CAD import module (optional)

IM-H1T
Data transfer software (optional)

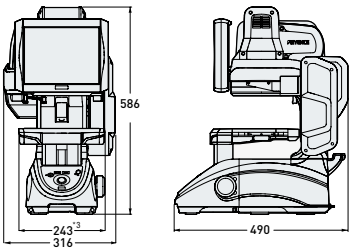
Supported operating systems	Windows Vista® Ultimate/Business/Home Premium/ Home Basic SP2 or later (32-bit version), Windows®7 Ultimate/Professional/ Home Premium (32/64-bit version), Windows®8.1/8.1 Pro (32/64-bit version), preinstalled version
HDD free space	2 GB or more

DIMENSIONS

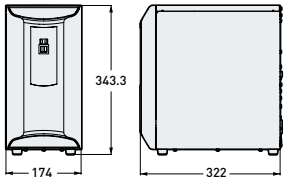
Unit : mm



Head **IM-6225**



Head **IM-6225T**



Controller **IM-6700**

*1. One instance of this product is included with the IM-6125, IM-6225 and IM-6225T. *2. One instance of this product is included with the IM-6225T. *3. 343 when the stage is moved to its maximum position.

SPECIFICATIONS

Model		Controller	IM-6700	
		Head	IM-6225	
			Wide field	High precision
Image pickup device			1" 6.6 mega pixel monochrome CMOS	
Display			10. 4" LCD monitor (XGA: 1024 × 768)	
			External monitor connectable (clone output)	
Light receiving lens			Double telecentric lens	
Image measurement	Field of view		ø100 × L200 mm	25 × L125 mm
	Minimum display unit		0.1 µm	
	Repetition accuracy	W/o stage movement	±1 µm	±0. 5 µm
		With stage movement	±2 µm	±1. 5 µm
	Measurement accuracy (2σ)	W/o binding	±5 µm*1	±2 µm*2
		With binding	±(7 + 0. 02 L) µm*3	±(4 + 0. 02 L) µm*4
Height measurement*5	Measurement range		0 to 60 mm	
	Measuring force		0.3 N	
	Measurement position accuracy (XY)		±0.7 mm	
	Minimum display unit		1 µm	
	Measurable area (XY)	Standard probe	45 × 95 mm	7.5 × 25 mm
		Wide-range probe	95 × 95 mm	60 × 25 mm
	Repetition accuracy*6	Standard probe	±2 µm	
		Wide-range probe	±5 µm	
	Measurement accuracy*7	Standard probe	±7.5 µm	
		Wide-range probe	±15 µm	
External remote input			Non-voltage input (with and without contact)	
External output		OK/NG/FAIL	Relay output/rated load: 24 VDC, 0. 5 A/ON resistance	
Interface		LAN	RJ-45 (10BASE-T/100BASE-TX/1000BASE-T)	
		USB 2.0 series A	6 ports (front: 2, rear: 4)	
Record		Hard disk drive	250 GB	
Resistance to environment		Operating ambient temperature	+10°C to 35°C	
		Operating ambient humidity	20% RH to 80% RH (no condensation)	
Illumination system		Transparent	Telecentric transparent illumination	
		Ring	Four division, multi-angle illumination (electric)	
			Slit ring (directivity) illumination (electric)	
X stage		Moving range	100 mm (electric)	
Z stage		Moving range	30 mm (electric)	
		Withstand load	2 kg	
Power supply		Voltage	100 to 240 VAC 50/60 Hz	
		Power consumption	310 VA max.	
Weight		Controller	Approx. 8 kg	
		Head*8	Approx. 31 kg	

*1. In the range of ø80 mm from the centre of the stage within the operating ambient temperature range of +23°C ±1.0°C at the focused focal point position
*2. In the range of ø20 mm from the centre of the stage within the operating ambient temperature range of +23°C ±1.0°C at the focused focal point position
*3. In the range of ø80 × 180 mm from the centre of the stage, within the operating ambient temperature range of +23°C ±1.0°C at the focused focal point position, and with a load weighing 1 kg or less on the stage (L = amount of stage movement in mm units)
*4. In the range of ø20 × 120 mm from the centre of the stage, within the operating ambient temperature range of +23°C ±1.0°C at the focused focal point position, and with a load weighing 1 kg or less on the stage (L = amount of stage movement in mm units)
*5. Only for heads with the contact height measurement unit (IM-6225T)
*6. When the maximum measurement height is set to 30 mm or less; ±3 µm for the standard probe and ±6 µm for the wide-range probe when the maximum measurement height is greater than 30 mm and less than or equal to 60 mm
*7. When the maximum measurement height is set to 30 mm or less; ±12 µm for the standard probe and ±21 µm for the wide-range probe when the maximum measurement height is greater than 30 mm and less than or equal to 60 mm
*8. Approx. 34 kg for heads with the contact height measurement unit (IM-6225T)

Measurement points		99 points max. (99 × 9 points possible when the function for consolidating measurement settings is used)
Pattern search (profile tracking function)		XYθ (with 360° rotary position compensation)
Pattern registration		1000 patterns or more*9
Measurement time		2 seconds*10
Basic measurement function	Distance measurement	8 types (point-point/line-point/line-line/circle-point/circle-line/circle-circle/circle/arc)
	Angle measurement	Provided
	Calculation	Provided
	Height*5	Provided
Virtual line function	Point	Middle point/intersection
	Conjunction edge	Line conjunction/circular conjunction
	Line	6 types (midline/perpendicular line/parallel lines/tangent line/line passing through a point/approximate line)
	Circle	Middle circle/approximate circle/auxiliary circle/inscribed and circumscribed circle
Application tool	Pitch measurement	Line/circumference
	Pitch angle	Line/circumference
	Width measurement	Edge width
	Thickness measurement	Thickness measurement/gap measurement between inner and outer diameters
	Special tool	Rounded corner/curved surface/oval/reticle/point position/perimeter/area/screw/automatic measurement
GD&T	Shape tolerance	Straightness/circularity/profile
	Orientation tolerance	Squareness/parallelism
	Position tolerance	Point position/concentricity
Element tool	Point	Point (on a line or arc)/maximum and minimum (rectangle, circle, arc)
	Line	Line/centre line/peak line
	Circle	Circle/arc/peak circle/peak arc
	Profile extraction	Provided
	Special tool	Automatic generation/gauge line
	Height*5	Provided
Manual measurement		Provided
Coordinate system configuration		Provided
Batch configuration of tolerance		Provided
Element list editing		Provided
Measurement setting data binding function		Provided
DXF export function		Provided
Automatic measurement function		Provided
Q-DAS data save function		Provided
Measurement settings support functions*11		Provided

*9. Depending on the measurement setting data and number of data pieces being stored
*10. Without pattern search, applied measurement, and stage movement
*11. Optimum lighting guide, optimum lighting search, automatic edge extraction parameter adjustment function, and multiple edge extraction function

WIDE-FIELD + ADJUSTABLE ILLUMINATION MODEL

Wide-field and adjustable illumination model of the image dimension measurement system that enables illuminated place-and-press measurement

This model is equipped with an adjustable illumination unit that integrates multiple ring illumination functions into a single unit. The optimal illumination conditions can be reproduced, which enables even stable illuminated measurement.

Field of view: **200 mm**

IM-6225

WIDE-FIELD MODEL

Wide-field model of the image dimension measurement system that enables place-and-press measurement with a 200 mm field of view with basic illumination features

Achieves twice as wide a field of view as conventional systems so that large targets can be measured.
Just place and press to complete measurement easily and accurately.

Field of view: **200 mm**

IM-6125

GENERAL-PURPOSE MODEL

Just place and press General-purpose type image dimension measurement system

A dimension measurement system born from a new concept which eliminates the need for X-Y stages. With a built-in ø100 optical lens, this model enables all points in the entire field of view to be measured in a batch.

Field of view: **ø100 mm**

IM-6015/6025

HIGH-PRECISION MODEL

Just place and press even for micro machined parts High-precision type image dimension measurement system

An innovative stage designed for reducing measurement time achieves place-and-press measurement even for micro machined parts. Perform hundreds of measurements in seconds without worrying about target placement and focus.

Repetition accuracy: **±0.1 µm**

IM-6145

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KEYENCE

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

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