

PRODUCT SPECIFICATION SHEET

Keyence IM-7000 Series Image Dimension Measurement System

PRODUCT OVERVIEW

The Keyence IM-7000 Series is a next-generation automated optical comparator and instant measurement system. It performs hundreds of high-precision dimensional measurements in seconds while automatically recording data and generating inspection reports. The system replaces traditional optical comparators, calipers, micrometers, measuring microscopes, and manual inspection methods with simple place-and-press operation.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Manufacturer	Keyence Corporation (Japan)
Series	IM-7000 (Image Dimension Measurement)
Image Sensor	1" 6.6 Megapixel Monochrome CMOS
Display	10.4" LCD Monitor (XGA: 1024 x 768)
Receiver Lens	Double Telecentric Lens
Field of View (Wide)	200 x 200 mm (7.87 x 7.87 in)
Field of View (High-Precision)	125 x 125 mm (4.92 x 4.92 in)
Minimum Display Unit	0.1 μm
Repeatability (No Stage Move)	$\pm 0.5 \mu\text{m}$ (High-Precision Mode)
Repeatability (With Stage Move)	$\pm 1.5 \mu\text{m}$ (High-Precision Mode)
Measurement Accuracy	$\pm 2 \mu\text{m}$ (High-Precision, no binding)
XY Stage Range	100 x 100 mm (3.94 x 3.94 in)
Stage Load Capacity	5 kg (11 lbs)
Illumination	Telecentric + 4-Division Ring + Slit Ring
Operating Temperature	+10°C to +35°C (50°F to 95°F)
Humidity	20-80% RH (non-condensing)
Interface	LAN (Gigabit), USB 3.1, USB 2.0

KEY FEATURES

- Place-and-press operation - measure up to 100 dimensions in seconds
- Automatic part recognition and alignment
- Sub-micron repeatability for precision quality control
- Automatic data logging and report generation
- CAD data import for comparison measurements
- Programmable multi-angle ring illumination
- Light probe option for height/depth measurements
- Network connectivity for data export and integration

APPLICATIONS

- Incoming inspection and quality control
- First article inspection (FAI)
- In-process dimensional verification
- Precision machined parts measurement
- Stamped and molded parts inspection
- Medical device manufacturing
- Aerospace component verification
- Automotive parts inspection

SYSTEM COMPONENTS

Complete system includes: IM measurement head unit with illumination, IM controller unit, integrated LCD display, XY motorized stage, accessory set, and documentation. Optional light probe available for 3D measurement capability.

CONTACT FOR PRICING

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