

# UNIMETRO A190

## Image Dimension Measuring System

UNIMETRO®



AVANT 190 image dimension measurement instrument is a new type of image measurement technology from UNIMETRO. It is different from the traditional 2D vision measurement instrument, it no longer needs a linear scale displacement sensor as a precision standard, and it does not need to enlarge the product image through a large focal length lens to ensure measurement accuracy.

AVANT 190 image dimension measurement instrument has a simple body structure and does not require a displacement sensor scale. It only needs a telecentric zoom lens with a large viewing angle and a large depth of field, a high-pixel CCD camera, and a powerful background software.

AVANT 190 image dimension measurement instrument uses a double telecentric optical lens with a large viewing angle and large depth of field, using high-speed digital processing functions, combined with high-precision image analysis algorithms, and can simultaneously complete the evaluation of dimensional tolerances with just one button. Widely apply to the machinery, electronics, molds, injection molding, hardware, rubber, low-voltage electrical appliances, magnetic materials, precision stamping, connectors, connectors, terminals, mobile phones, home appliances, printed circuit boards, medical equipment, watches, knives and other fields.

#### ◆ Solving the problems of traditional measuring machine:

Traditional size measuring instruments such as projectors, tool microscopes, vision measuring instruments, profile measuring instruments, vernier calipers, etc., may face high operational difficulty, complex focusing process, time-consuming moving coordinate table, human error, long batch measurement time, and data. Complicated statistical management and other issues.

#### ◆ Outstanding features

##### **Fast & efficient:**

- ✓ The product can be placed arbitrarily without additional fixtures to fix and position.
- ✓ Fast measurement, up to 512 locations can be measured at the same time.
- ✓ To make batch measurement more efficient, batch measurement can be carried out quickly and accurately in CNC mode.

##### **Accurate & consistent:**

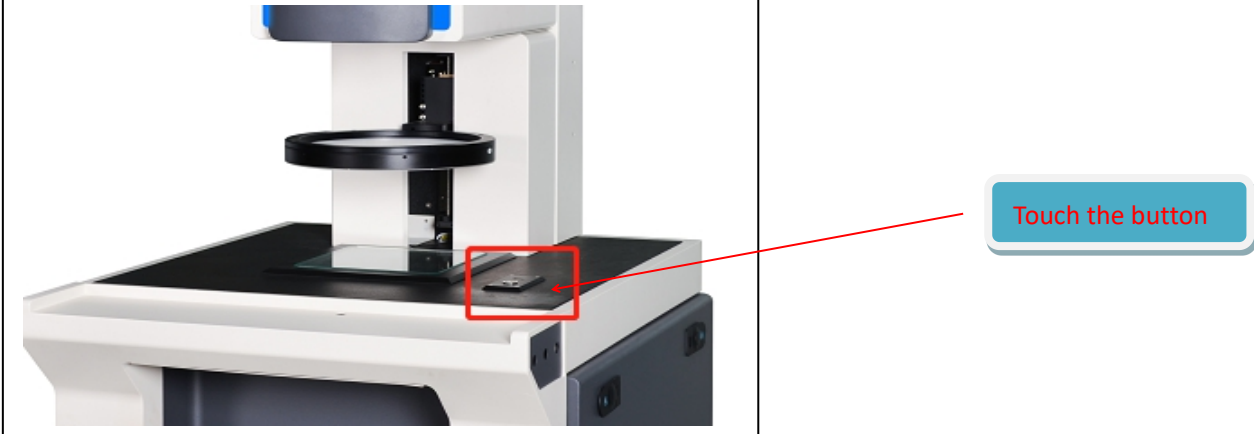
- ✓ With just one button, anyone can easily obtain accurate and consistent measurement results.
- ✓ Software auto focus, no deviation caused by focus adjustment.
- ✓ Automatically identify the measurement location, obtain uniform and stable measurement results.

##### **Easy to operate:**

- ✓ Anyone can get started quickly, saving manual training time and improving work efficiency.
- ✓ Simple operation interface, the operator can quickly find the corresponding function and measure it.
- ✓ Virtual lines and virtual points can be created to meet more measurement requirements.

**Quick and simple operation process:**

- 1.Import the programmed template program (support import DXF programming)
2. Place the workpiece: no positioning required
3. One touch measuring: Touch the button



**Parameter:**

Model		AVANT 190
Image sensor		20MP HD color digital camera
Monitor		24"
Zoom Lens		Single/double telecentric lens
Illumination system	Drop shot system	Single zone ring directional lighting (white light)
	Transmission system	Parallel transmitted illumination (white light)
Broad vision ( mm )		195*130mm
Repeatability	Broad Vison	±3 ( Coordinate table not moving )
Software		INS/F
Display resolution		0.1um
Z direction electric coodinate table	Moving range	100mm
Dimension		812*964*2076mm
Weight		530KG
Power supply		110-240VAC, 50/60HZ

**Application:**

