

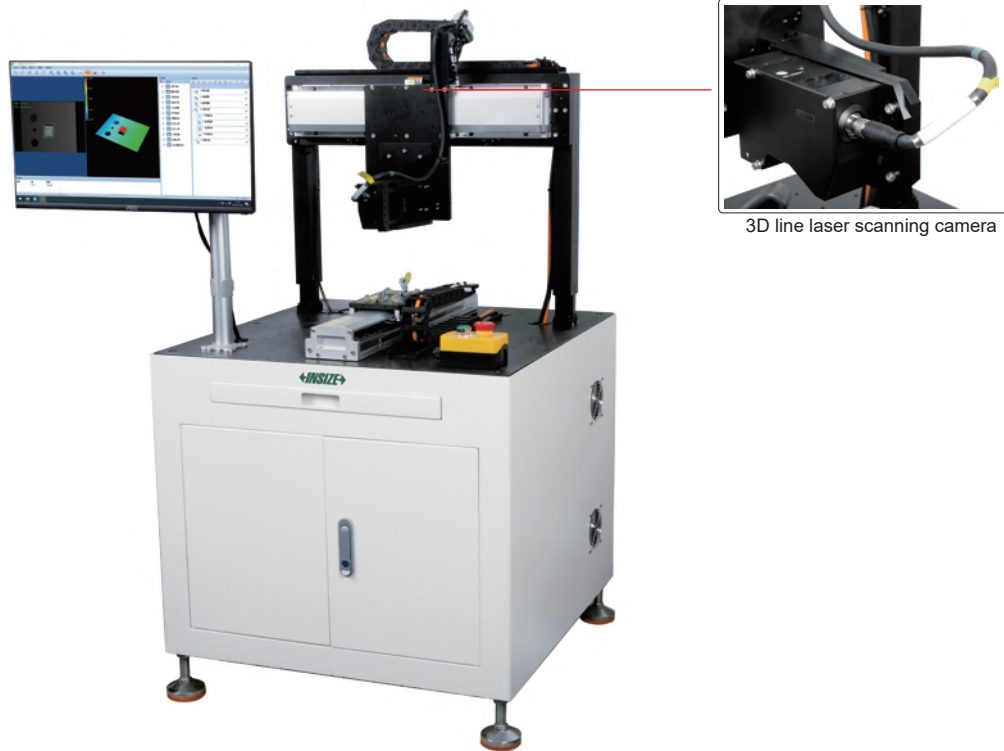
# 3D LINE LASER PROFILE MEASURING MACHINE CODE VIM-P140

NON-CONTACT SCANNING

HIGH SPEED MEASUREMENT

FLATNESS/HEIGHT  
DIFFERENCE MEASUREMENT

CUSTOMIZED MADE

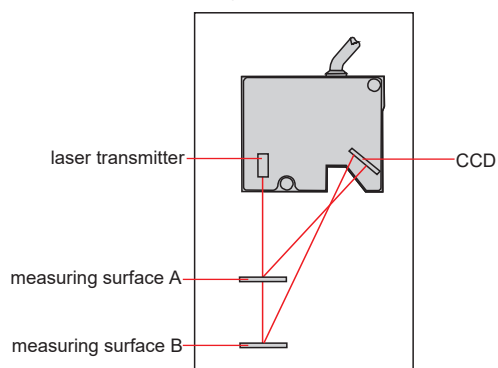


3D line laser scanning camera

- Flatness and height difference measurement of machinery, electronics, cell phones, molds, circuit boards and other products
- Full-range focusable optical system allows you to take pictures in focus range, even when the target height is changed
- Combing 2D and 3D data for complete detection; 2D data can be used for localization, code reading, character recognition, etc
- The software is automatically corrected for workpiece position deviation; multiple scanned images can be automatically spliced to achieve stable detection

## CAMERA PRINCIPLE

line laser scanning camera measurement principle



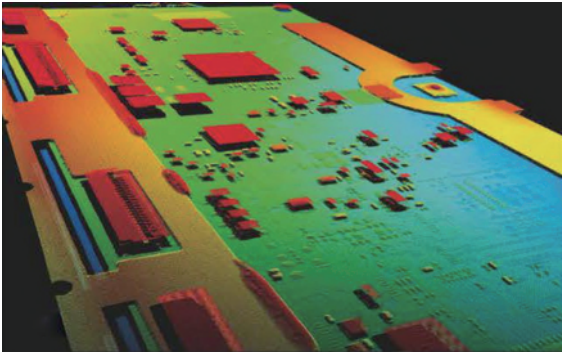
## SPECIFICATION

|                             |                |
|-----------------------------|----------------|
| Travel range XY             | 400×350mm      |
| Repeat Positioning Accuracy | 2μm            |
| Measuring range of Z-axis   | 24mm           |
| Width of X-axis             | 96mm           |
| Accuracy of Z-axis          | ±0.02mm        |
| Repeatability of Z-axis     | ±0.5μm         |
| Scanning speed              | 2500~10000Hz   |
| Power supply                | 220V, 50Hz     |
| Weight                      | 200kg          |
| Dimension (L×W×H)           | 750×760×1400mm |

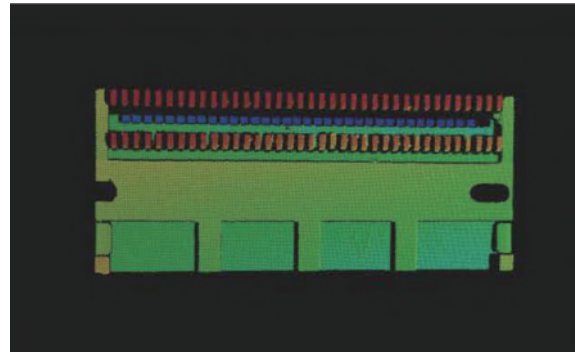
## STANDARD DELIVERY

|                     |     |
|---------------------|-----|
| Main unit           | 1pc |
| Industrial computer | 1pc |
| Display             | 1pc |
| Keyboard and mouse  | 1pc |

## APPLICATION



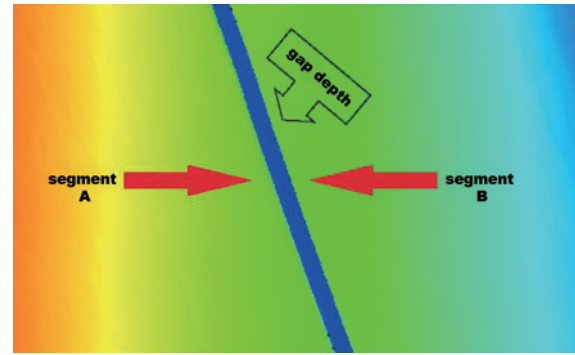
component height measurement on circuit boards



flatness and height difference measurement



character height measurement



gap depth measurement

## MEASURING SOFTWARE (INCLUDED)

The screenshot displays the software interface with the following components:

- 3D graphics area:** A 3D model of a PCB with a red box highlighting a specific component. A color scale on the right ranges from 2,000 to 12,000.
- graphics area:** A 2D top-down view of the PCB with a red box highlighting a specific component.
- data area:** A table at the bottom left showing measurement data.
- toolboxes:** A list of tools on the right side, including Camera, Picture Processing, Calibration, VisionTool, Geometry, Communication, LogicTool, OtherTool, AlignTool, 3DMeasure, SpecialTool, and HttpUploadData.
- testing process:** A list of tasks on the right side, including 1. LoadSurface, 2. SurfaceImage, 3. ContourMatch, 4. BeginLoca, 5. PinPlane, 6. MeasHeight, 7. MeasVolume, 8. ShowText, and 9. EndLoca.

| Index | height | volume |
|-------|--------|--------|
|       | 6.15   | 728.82 |