

First, the basic functions:

- Descartes coordinate / polar coordinate conversion
- Absolute / Relative / Working Coordinate Conversion
- Public/imperial conversion
- Degrees / degrees per second conversion
- Points / point groups
- Two points / multi-point line
- Three-point / multi-point rounding and arcing
- B-spline line
- The distance between the two points
- The average distance between the two lines
- The distance between the dot lines
- The distance between the two centers
- The distance of the round line
- The angle and intersection between the two lines

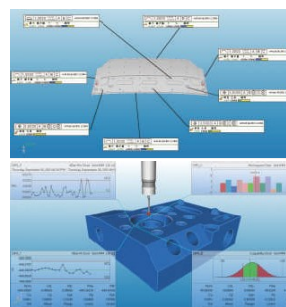
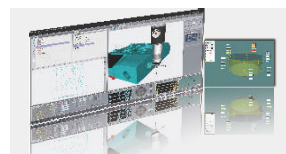
Second, special functions

- The measuring workpiece does not need to be adjusted for timing, and the software provides coordinate translation, rotation, and positioning
- Dimensions / move dimensions directly in images and geometric areas. Straight-line trimming, extension function.
- Geometric points, lines, circles/arcs and line endpoints, midpoints, center of circles, quadrant points are automatically captured.
- Adjust the CCD parameter setting to improve adaptiveness and remove hair edges to get measurement data correctly.
- Use the image tool to quickly and automatically grasp the basic geometric contour boundary points, directly composed lines, circles, arcs.
- The measuring area workpiece zooms in on the graphical output of the camera and converts it into (.bmp, .jpg).
- Measure the data output and convert to WORD (.doc), EXCEL (.xls).
- Mechanical graphics output directly .dxf format for 2D plagiarism and seamless connection to other software such as AutoCAD, Pro/e, etc.
- Can be transferred to .DXF format files, compared to artifacts or measurement graphics. And can directly in the image area to take two points to get the error measurement.
- Provides linearity, roundness and angle analysis within the plane for effective quality inspection.
- Machine accuracy compensation, improve measurement accuracy.



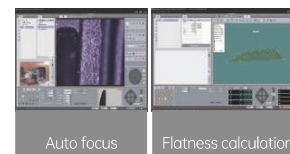
Rational Vue measuring software

RationalVue is the first vision measuring software including the CAD function, also the first to combine the vision, probe and laser sensor measuring function in one single software and all the function are freely switchable. RationalVue is with the features of easy use, 100% graphical, real time model comparison, multiple diagram format and advanced algorithm, ensures the reliability of the algorithm and in the mean time offers easy operation and powerful function.



Comparison based on multiple 3D format

- The software allows users to input 3D files of lges format or CAD files of DXF format.
- The CAD file can be used for guiding measuring, guiding the software to do comparison between the theoretical values and the measuring results.



Measure height and flatness by focusing
Thanks to the advanced focusing algorithm from RationalVue, the machine can achieve fast and precise focus operation to the parts, finish the focusing process within 2-3 seconds. The repeatability of the focusing can be up to 0.003mm, which is able to be used for measuring of height or flatness.



Supporting laser sensor measuring

The RationalVue software is supporting the KEYENCE and Panasonic laser sensors. RationalVue is offering professional laser measuring function, allows the users to set pace and achieve non-contact measuring function automatically, complete the calculation of height, flatness and profile tolerance of the curved surface.



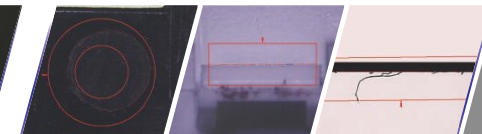
PTB certificate

The Rational Vue software has passed the PTB certificate (Physikalisch-Technischen Bundesanstalt). Which ensures the software accuracy and reliability by official authority.

Special edge measuring



RationalVue is able to filter the burrs of the measuring parts edge, increase the measuring accuracy. RationalVue is able to filter the burrs of the measuring parts edge, increase the measuring accuracy.



Self-developed advanced edge sharpen function, ensures the software can precisely detected blurry edge or edge with large burrs, which ensures the real automatic measuring function.