LENGTH

PROTEC ENGINEERING

Digital Precision CNC 2D Measuring System

MODEL EX-1215CNC

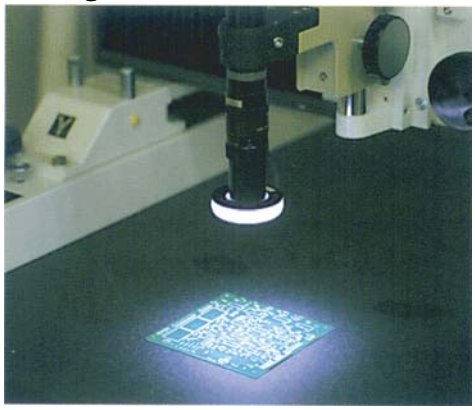
PROTEC CNC 2D coordinate measuring machine series are highly reliable devices which hold precision and operability in high regard as their primary purposes. It can be used to measure dimensions, inspect hole pitch, and measure coordinates for wide range of relatively small sized plate products such as printed circuit boards, liquid crystal glass substrates, precision photomasks, screen masks, various films, block copies, several types of printed matter. Measured data can be printed, and also converted to Excel and CAD/CAM.

■ Major characteristics

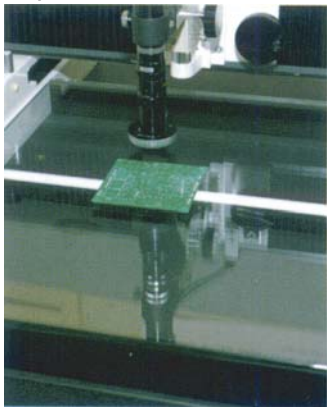
One-click automatic measurement	Due to CNC type, measurements are made by clicking one-click tool and pointing measurement points by mouse. Edges are automatically detected for measurement.
Easy to operate	Featuring edge sensor, thus eliminating errors by inspectors Excellent system environment allowing free editing and operation
Speedy and efficient	Measured data can be transferred to Excel files to save time in transcription. Factors can be graphically displayed for edit and comparison on CAD/CAM. Data can be saved in CAD DXF files.

Zoom microscope (0.75～4.5x)

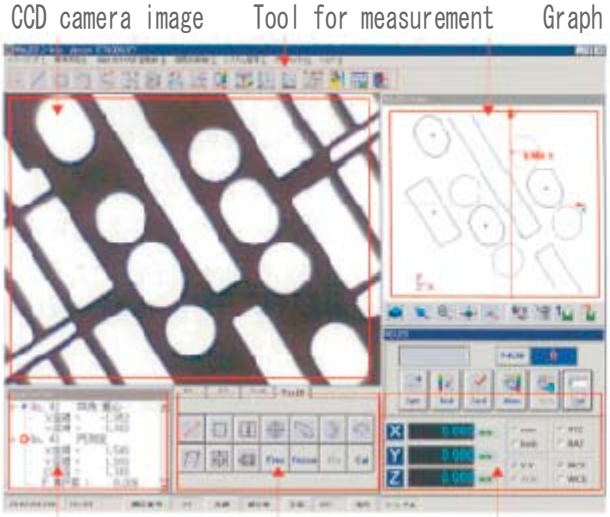
LED light



Transmitted illumination (Optional)



●Measuring Software Display (17 inch TFT)



●Graphic display

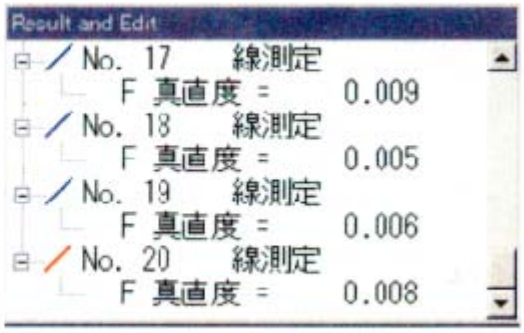
○Draw figures at the same time of measurement
○Recalculation can be done by simply clicking measured parts on the graph instead of numbers of result recalculations.
○Graphs can be saved in DXF or BMP files, also can be transferred to CAD/CAM for editing.

●Equipped with edge sensor

By mouse-clicking on measuring points, automatic measurement can be made, thus eliminating errors depending on inspectors.

○Basic measurements such as points, lines, circles and circular arcs (up to 500 points)
○Indirect measurements such as distance, angle midpoint
○Coordinate measurements such as axial adjustment and origin shift
○Rerunning by invocation

●Measured data



○Output of measured data includes geometric calculated value such as roundness other than X and Y axial lines.
○Shortest distance and longest distance can be calculated.
○Each measured data has measurement numbers attached. Recalculations are easy by inputting the measurement numbers in result recalculation mode.

● Wide range of variation from small to large scale

X=400 × Y=500mm

X=500 × Y=700mm

X=600 × Y=1000mm

X=1300 × Y=1500mm

X=1500 × Y=1800mm

Custom-made size is available.
Please contact us detail.

■ Main specification

Model		EX-1215CNC
Measuring range		1200 × 1500 × 100mm(XYZ axis)
Minimum indication value		0.001mm
Measurement accuracy		XY=5+5L/1000 μm, 20℃±1℃
Method of operation		Automatic
Sliding area		LM guide
Sensor		Optical linear encoder
Environmental condition	Temperature	15 ～ 40℃
	Humidity	30～ 80%
Image detection		High resolution CCD color camera
Lighting system		Division into 4 LED epifluorescence lighting system
Zoom lens-barrel		x0.75～ x4.5 (Approx. 23.6～ 152x in using 17inch monitor)*1
PC		Windows XP on board personal computer included
Monitor		17inch liquid crystal monitor
Printer		A4 Color printer
Prower source		AC100V, 15A
Mass		Approx. 3500kg*2
Dimensions		1700(W) × 2000(D) × 1450mm(H) *3

*1: Magnifications quoted here are values by calculation, and not correspondent with actual magnification rates.
*2: Main unit weight only *3: PC and monitor are not included.

＊ Specifications and design details may be subject to change.

Manufacturer:

PROTEC ENGINEERING

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for more infomation: