



Solder
Paste
Inspection
Data
Analyser

- Automatic paste height measurement
- Can control up to 10 lines of production
- Data and SPC reports
- Prints out to photographic quality
- Runs in Window 95
- 5 Zoom positions
- Maglok gliding table
- Geometric measurement
- Calculates volume
- Operator friendly

Data Sheet

The SPIDA is a highly accurate, non-contact inspection and measuring system ideal for the measurement of printed solder paste deposits, stencil aperture inspection, component placement, and a wide range of related electronics assembly applications.

The system can be used to inspect and analyse up to ten separate lines and ten different products. Data and SPC reports can be viewed in either Excel or Note pad.

The SPIDA has a zoom lens with five stop positions giving a range from X30 to X160, allowing easy inspection of subjects having varying sizes. The machine is supplied with a Maglok gliding stage which allows easy positioning of the subject under the camera.

Operation of the SPIDA system is fast and very user-friendly. To measure a solder paste deposit, the operator places the subject onto the glide table and positions the subject into view on the monitor. By simple manipulation of the mouse, the choice of line number and product are made.

Measurement of X and Y dimensions can be made by framing the paste deposit using the on screen scalar lines.

Height and volume measurement are made automatically, by a click of the mouse, eliminating any operator error. This data can be automatically saved if required. Saved Data can be viewed at any time during the process on any or all of the lines.

On screen images can be saved and printed to Photographic quality.

Specification

Magnification	5 position zoom lens X30 to X160
Surface lighting	150w fibre optic ring
Micro slit illuminator	150w fibre optic
Optical system	S video CCD camera
Monitor	17 SVGA
Computer	Pentium 2, 333 MHZ
Focusing range	10mm fine 100mm coarse
Maximum sample height	100mm
Throat depth	375mm
Base dimension	500mm x 700mm granite
Maglok gliding stage	410mm x 410mm x 70mm
Maglok movement	300mm x 300mm total 10mm Fine movement per axis
Overall height	600mm min 700mm max
Power supply	240v

Your Local Distributor



Geometric Functions

In addition to measurements of rectangles or square pads SPIDA can also measure and record other parameters.

Angles

Angles can be measured by clicking the mouse on reference points. The SPIDA will display the angle measurement.

Circles

Circles are measured by clicking the mouse on a minimum of three reference points. The computer will generate the best fit circle and display the diameter. A second circle can be added, and the diameter and distance between centres displayed.

Irregular shapes. Area

By clicking the mouse on reference points of any irregular shape, the area of the shape is automatically calculated and displayed.

The circle and area functions can be combined with the automatic Z function to calculate the volume.

Maglok gliding table

The SPIDA includes a Maglok table which is an X-Y gliding stage with electronic magnets that lock X and Y axis individually. Pressing the button releases each axis for easy movement. Once the stage is locked further adjustment can be made by means of fine adjustment knobs.

Options

Software upgrade to measure hemispheres and sloping sided paste or glue.

Upgrade to allow measurements in the range 0.05 to 10mm.

Colour ink jet printer for photographic quality prints.

Microsoft Excel for data collection and manipulation.

Manufactured by

INVICTA **UK**