

WaveShuttle PRO





System Advantages

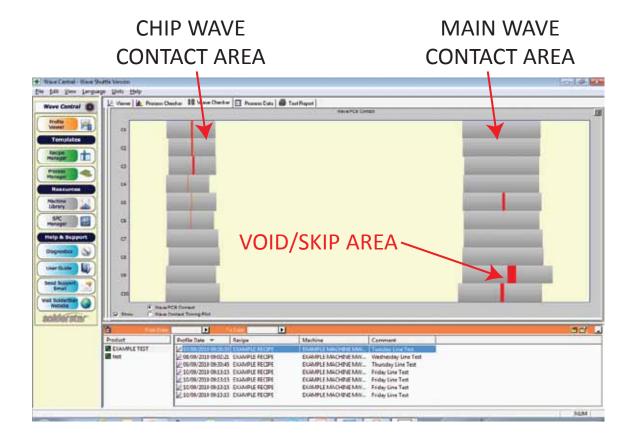
High quality 10mm fixture provides a fixed robust platform for initial process set up, periodic checking and comparison

Underside titanium contact sensors give highest measurement accuracy on Wave Height and main and chip wave parameters

- Custom widths and sensor positions available for fixed width lines or special applications
- Connectivity via standard USB cables or 2.4Ghz Wireless Telemetry
- Dedicated Wave Central PC analysis software with product database and integrated SPC charting package

Measure all key parameters in single pass

The WaveShuttle Pro is an intelligent fixture that measures all key parameters from a single pass through the wave soldering machine. Thermocouple sensors are combined with dedicated titanium wave measurement contacts, allowing manufacturers to gain a true measurement of the performance of their wave soldering process.



Parameters Measured

Main Wave and Chip Wave dwell/contact time

Wave Height / Immersion Depth

Conveyor speed

Top side PCB temperature (Left & Right)

Solder Pot temperature

Delta T at Wave

PCB/Wave Contact Area

PCB to Conveyor Parallelism

Component Heating Rates

Real component temperatures (via spare channels & user test PCB)

Technical Data

Construction CDM Anti Static 10mm

Size/Weight 250mm x 315mm x 30mm (max) 1kg

Dwell Contacts 11 positions measured by on-pallet system

Contact sampling All contacts 100 times per second

Timing accuracy +/- 0.01 seconds

Wave Height Array 0.2 - 2.4mm

Temperature 5 channels measured by Neptune SL

2 x PCB top side L&R TYPE K

1 x Solder Pot TYPE K

2 x User PCB/Auxiliary TYPE K

Temperature Accuracy +/- 1°C

Temperature Resolution 0.02°C (0.1°C displayed on graph)

Wireless Telemetry Option

Frequency 2.4GHZ Transceiver

Channels 128 Individual Channels

Protocol Zigbee PRO - Duplex Transmission

Software

Windows™ XP Vista/Windows 7/8 32 & 64 Bit Compatibility

Language Support English, French, German, Italian,

Portuguese, Spanish & Chinese

Standard Equipment

- 250mm Width Pallet
- PC Software on CDROM
- Equipment Case

This product can be supplied as a stand-alone system complete with datalogger, or as an accessory to an existing SolderStar system. Please contact SolderStar or your local supplier for the optimum configuration for your soldering processes.

Customisation

Custom width pallets are available to special order to meet any exact requirement of your production lines.

Optional Equipment

• 2.4Ghz Wireless Telemetry

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Additional Process Support



REFLOW • WAVE • VAPOUR

A range of process specific accessories are available to extend the system for use with Reflow, Wave/Selective Soldering and Vapour Phase processes.

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Specification subject to change without notification

For further information and demonstration software visit www.solderstar.com