



WaveShuttle Pro - for True Wave Solder SPC

Designed to work in conjunction with an existing SolderStar Pro temperature profiling package, the SolderStarWaveShuttle Pro is an advanced accessory that provides detailed analysis of all key parameters of the wave soldering process. By combining temperature profile capture and dedicated wave interaction measurement sensors in one easy to use active wave solder pallet, this unique tool allows manufacturers and EMS providers to easily and cost-effectively gain absolute SPC of their wave soldering process.

Manufactured from high grade anti-static composite and fitted with durable titanium side rails, the active pallet incorporates an on-board high speed datalogger system dedicated to wave contact measurement from the titanium sensors installed on the pallet underside.

Temperature measurement, data storage and downloading are handled by the SolderStar Pro datalogger which can be quickly and conveniently connected via the SmartLink connection system.

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 both main and chip wave parameters
- Custom widths and sensor positions available for fixed width lines or special applications
- Fully enclosed and protected datalogger and contact measurement system ideal for hotter lead-free processes
- Dedicated Wave Central PC analysis software with product database and integrated SPC charting package

Parameters Measured

- Main wave dwell time (front, middle and rear)
- Chip wave dwell time (front, middle and rear)
- Conveyor speed
- Top side PCB temperature (Left & Right)
- Solder Pot temperature
- Delta T at 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	7 positions measured by on-pallet system	
Contact sampling	All contacts 100 times per second	
Timing accuracy	+/- 0.01 seconds	
Power	2 x high temperature lithium coin cells	
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
Temp Accuracy	+/- 1°C	
Temp Resolution	0.02°C (0.1°C displayed on graph)	

Standard Equipment

- 250mm Width active pallet
- Wave Central PC analysis software CD
- Hard Copy User manual
- Accessory Soft Bag

Optional Equipment

- Custom Pallet Width

For further information and to book a free demo visit www.solderstar.com

Wave Central PC Software



The WaveShuttle Pro is supplied with a dedicated software package for analysis of all key wave soldering parameters. A common interface and navigation system allows existing users of other SolderStar products to quickly perform detailed wave solder analysis with minimal training.

Compatibility

Windows™ 95/98/ME/NT4/2000 or XP

Language Support

English, French, German, Italian, Korean, Portuguese, Spanish, Simplified & Traditional Chinese

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