System Advantages

- High quality 10mm fixture provides a robust platform for initial process set up, plus periodic checking and comparison.
- Underside titanium contact sensors give highest measurement accuracy on Wave Height, Main, and Chip wave parameters.
- Custom widths and sensor positions available for fixed width production lines or special applications.
- Connectivity via standard USB cables or 2.4Ghz Wireless Telemetry.
- Dedicated Wave Central PC analysis software with integrated SPC charting package.

Measure all key parameters in a single pass

The WaveShuttle Pro is an intelligent fixture that measures all key parameters from a single pass through the wave soldering machine. Thermocouples are combined with titanium contact sensors, allowing manufacturers to gain a true performance measurement of the 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 (W x L x H)**: 250mm x 350mm x 30mm
- **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**
  - Type K
  - 2 x PCB top side (Left and Right)
  - 1 x Solder Pot
  - 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

- **Compatibility**: Windows™ XP Vista/Windows 7/8/10 32 & 64 Bit
- **Language Support**: English, French, German, Italian, Portuguese, Spanish & Chinese

For demonstration software visit www.solderstar.com

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**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 size pallets are available to special order where specific sizes are required to meet the needs of your production lines.

**Optional Equipment**

- 2.4Ghz Wireless Telemetry

**Additional Process Support**

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

Specification subject to change without notification

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For more information contact your regional Solderstar office

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Software

**Wireless Telemetry Option**

- Frequency: 2.4GHz Transceiver
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