# Manage your Reflow Profiling data-stream as *you* choose via MES, LAN, PC, mobile devices ....



## What is it?

The ultimate automatic profiling system with network software for data sharing and traceability.

1 ea. RPI Automatic Profiling system

1 ea. Vantage factory intelligent network software

1 ea. RPI to Vantage license

## What will it do for you?

- Full thermal process traceability
- Reduce scrap and rework via real-time thermal process dashboard and notification
- Improve production line utilization
- Faster defect troubleshooting
- Save engineering time with advanced data search and communication features for internal and external use

## How does it work?

- RPI automatically acquires profile data in real-time from each product soldered in the reflow oven.
- The profile is compared to the relevant process window

for traceability and for instant alarm on out of spec conditions.

- Basic SPC charts are automatically populated and warning levels set for Cpk level.
- The acquired data are continuously sent to the browser-based Vantage database residing on a server on the factory LAN.
- The Vantage search and filter functions display relevant process data from any connected RPI system in the factory.
- Search on customer or product name, time period, select production line, etc to instantly display the relevant data.
- Share your local URL with authorized personnel to facilitate clear communication where everyone is (literally) on the same page.
- Access all data from any authorized PC or mobile device anywhere.
- Share Vantage data with your MES to include reflow process product data in your factory software.

# RPI SYSTEM

## Minimum Hardware Requirements

CPU:  Dual Core / 1 GHz Processor PC
RAM: 2 GB
Video:  1024 x 768 resolution / 16 bit
USB(s):  2 available ports (1 for data download, 1 for software key)
        2 additional powered USB ports may be needed
Ethernet and/or USB:  1 available Ethernet or additional USB
Minimum Space:  1 GB

## System Components

Data acquisition unit/Probes
Two (2) thermocouple probes (each probe has 15 thermocouples)
One (1) data acquisition unit
One (1) speed encoder
One (1) board sensor
One (1) alarm relay
One (1) light tower
One (1) KIC RPI software with software protection dongle
Note:  The RPI requires a KIC profiler

## Hardware Specifications

Accuracy:  ±1.2°C
Readings/second:  13
Thermocouples: Type K
Temperature Range:  -150°C to 450°C
Dimensions:  Data acquisition unit (LxWxH):
        308.6mm x 173.5mm x 35.8 mm
Probes:  Length and thermocouple spacing is
        customized to each oven
Communications:  Ethernet, RJ-45 connector
Computer Capability:  PC
Power Requirements:  12V CD @ 300mA

## Operating Systems

Visit our website at:

http://kicthermal.com/support-download/os-compatibility-chart for product compatibility with Windows operating systems

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# VANTAGE SYSTEM

## Minimum Hardware Requirements

CPU:  Quad core 2GHz+CPU
RAM:  16 GB
USB(s):  1 available port
Minimum Space:  10 GB
Network connection between Vantage, reflow oven controller(s) and browser (mobile, PC), MES or similar.

## Hard Disk Requirements

All page content is stored in the database, while attachments are stored in the file system. The more attachments you have, the more disk space you will require.

## Supported Platforms

### Operating Systems:
Windows 10
Windows Server 2016

### Databases:
Microsoft SQL Server 2016
Microsoft SQL Server 2014
Azure SQL

### Desktop Browsers:
Chrome
Internet Explorer 11

### Mobile Browsers:
Chrome
Safari

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