



X⁵ Pro

The smart profiler package that maximizes investment with smart optimization and proactive oven health monitoring capability



X⁵ Pro™ Advantages

- Robust Hardware
- Smart Oven Setup Software
- Includes KIC HeatMap™ Option
- Compatible with KIC Ecosystem
- 2 Year Warranty
- 24 Hour World Class Customer Support



X⁵ Pro

X⁵ Profiler with HeatMap™

Pro Capabilities

- Transforms underused profilers into highly productive monitoring tools
- Real-time visualization of each zone's performance vs a reference condition
- Identifies intermittent thermal drifts that may not be visible during isolated profile checks
- Integrated Navigator Power™ optimization. Powerful search engine identifies optimum recipe setup
- PWI – Instant process analysis with a single number
- Unique process specifications for each thermocouple

Additional Standard Features

- Intuitive TAS (Thermal Analysis System) software
- Fast and accurate manual profiling
- Single screen overview
 - Profile graph
 - Metrics (slopes, reflow time, peak)
 - Oven settings
 - Suggested optimal settings
- Solder paste specification library
- SPC charting - Automatic Cpk calculations

Optional Smart Features – AI, Data Analytics, Automated Outputs

- ***NEW* Common Recipe Finder™** for efficient production changeover and improved Overall Equipment Effectiveness
- Auto-Focus Power™ - automated NPI oven recipe creation
- Sweet Spot Process Development for better process results
- TC mapping for report/audit documentation
- External data outputs
- Audible light tower for out of spec conditions

Hardware and Built-In Conveniences

- Robust and durable design
- Operates on three AAA batteries or USB powered when connected to PC
- 7, 9, and 12 channel configurations
- Push button on/off with LED indicator
- Variety of available thermal shields

X⁵ Profiler Specifications

Accuracy:
 -150°C to 0°C ±(1.1°C = 1.1%)
 0°C to 500°C ±1.1°C
 500°C to 1050°C ±(1.1°C = 0.3%)

Resolution:0.1°C

Internal Operating Temp: ..0°C to 85°C

Sample Rate:0.002 to 10 readings/second

Max Data Points:224,640

Temperature Range:-150°C to 1050°C

PC Connection:USB 2.0 (Std-A/Mini-B)

Power:(3) AAA batteries
 (USB power when connected to PC)

Thermocouple Compatibility: Type K, Standard

Dimensions (L x W x H mm):

7-channel:202.0 x 60.0 x 17.0

9-channel:202.0 x 75.0 x 17.0

12-channel:208.0 x 98.0 x 17.0

X⁵ Pro Kit Contents

X ⁵ Smart Profiler	Gloves
HeatMap Probe - 1 TC per Zone* (15 TC Maximum)	Scissors
HeatMap Mounting Hardware	Software/Manuals/Hardware Guides on USB Thumb Drive
HeatMap Self-Installation** Guide	USB Software Protection Dongle
2 USB Cables (A-Male/Mini-B)	Getting Started Guide for Profiler and HeatMap
Thermal Shield*	Calibration Certificate
Thermocouples**	Carrying Case

* These items may vary according to specific models/configuration ordered.
 ** KIC Installation and Training available for HeatMap. Contact KIC for details.

HeatMap Probe Specifications

Accuracy:±1.1°C

Thermocouples:Type K

Maximum Temperature: ...450°C

X⁵ WITH THERMAL SHIELD

DIMENSIONS

TEMPERATURE DURATION (MINUTES)

Models	Length x Width x Height	150°C	200°C	250°C	300°C	350°C	400°C
7 CH Single Layer Cool Touch	303 x 75 x 24	17.5	12.0	9.0	7.7	6.5	
7 CH Triple Layer Cool Touch	303 x 81 x 30	26.8	17.6	13.4	11.1	9.7	
7 CH HT-400 Stainless Steel *	304 x 78 x 29	24.9	17.6	14.0	11.5	10.1	9.2
9 CH Single Layer Cool Touch	313 x 91 x 24	18.1	13.1	10.1	8.4	6.7	
9 CH Triple Layer Cool Touch	313 x 96 x 30	26.3	17.1	13.4	10.9	9.4	
9 CH HT-400 Stainless Steel *	304 x 93 x 29	24.9	17.6	14.0	11.5	10.1	9.2
12 CH Single Layer Cool Touch	325 x 115 x 24	17.7	12.0	8.9	7.4	6.1	
12 CH Triple Layer Cool Touch	325 x 120 x 30	24.6	17.8	13.8	11.7	9.9	
12 CH HT-400 Stainless Steel *	310 x 117 x 29	24.9	17.6	14.0	11.5	10.1	9.2

*Compatible with Datalogger mode only



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Minimum System Requirements

Dual Core / 1 GHz Processor PC with 2 GB RAM
 2 GB available storage
 Video 1024 x 768 resolution / 16-bit
 1 available USB port (for data download or Smart Dock)
 1 available USB port (for software protection dongle)
 Visit our website at <https://kicthermal.com/support/os-compatibility-chart/> for product compatibility with Windows operating systems.



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