



# X5™

## Intelligent Thermal Profiler



### X5 Advantages

- **Robust Hardware**
- **Process Optimization**
- **Ease of Use**
- **Now available with NEW Thermal Analysis System Software™ for profiling!**
- **2 Year Warranty**
- **24 Hour World Class Customer Support**

#### Smart Capabilities

- 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
- SPC Charting - Automatic Cpk calculation

#### Standard Capabilities

- Durable industrial design
- Single screen overview
  - ✓ Profile graph
  - ✓ Metrics (slopes, reflow time, peak)
  - ✓ Oven recipe settings
- Solder paste specification library
- SPC Charting

#### Optional Smart Features

- HeatMap™
- Auto-Focus Power™ - Intelligent database for NPI oven recipe creation
- Sweet Spot Process Development
- TC mapping for report/audit documentation
- Centralized Process Window Control ensures only approved process specification are used
- Automated data output of profiles

#### Built-in Conveniences

- 7, 9 and 12 channel configurations
- Powered by 3 AAA batteries (alkaline or rechargeable)
- Temperature triggering for repeatable data collection
- Variety of robust and durable thermal shields available

SMART  
PROFILING

# X5™

# X<sup>5</sup> Intelligent Profiler

## 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%)

Example: @ -10°C error is 1.1°C + (10 \* 1.1%) = 1.21°C

Acceptable range = -8.79°C to -11.21°C

## Resolution: 0.1°C

Internal Operating Temp: 0°C to 85°C

Sample Rate: 0.002 to 10 readings/sec

Data Points: up to 224,640

Temperature Range: -150°C to 1050°C

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

Power: (3) AAA batteries

Powered by USB when connected to PC

Thermocouple Compatibility: Type K, Standard

Dimensions (LxWxH 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

Thermal Shield: See Temperature Tolerance Table below for specifications.

X <sup>5</sup> Profiler Kit Contents	
X <sup>5</sup> Profiler	Scissors
Thermal Shield*	Software/Manuals/Hardware Guides on USB Thumb Drive
USB Cable (A Male/Mini-B)	USB Software Protection Dongle
AAA Batteries (6)	Getting Started Guide
Thermocouples*	Calibration Certificate
Batteries	Carrying Case
* These items may vary according to specific models/ configuration ordered.	

X <sup>5</sup> w/Thermal Shield	DIMENSIONS Length x Width x Height	TEMPERATURE DURATION (mins)					
		150°C	200°C	250°C	300°C	350°C	400°C
7 CH 23mm Stainless Steel	303 x 76 x 23	17.7	12.8	10.4	8.4	7.3	
7 CH 29mm Stainless Steel	303 x 76 x 29	24.4	17.9	13.9	11.6	10	
7 CH Single Layer Cool Touch	303 x 75 x 24	17.5	12	9	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	11.5	10.1	9.2
9 CH 23mm Stainless Steel	303 x 97 x 23	18	13.8	11	9.1	8	
9 CH 29mm Stainless Steel	303 x 97 x 29	28.5	21.1	16.3	13.8	12	
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	11.5	10.1	9.2
12 CH 23mm Stainless Steel	309 x 121 x 23	20.8	15.2	13	10	9	
12 CH 29mm Stainless Steel	309 x 121 x 29	32.5	23.6	18.2	15	13.2	
12 CH Single Layer Cool Touch	325 x 115 x 24	17.7	12	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	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)

1 available USB port (for software key)

Visit our website at <https://kicthermal.com/support-download/os-compatibility-chart> for product compatibility with Windows operating systems.

