

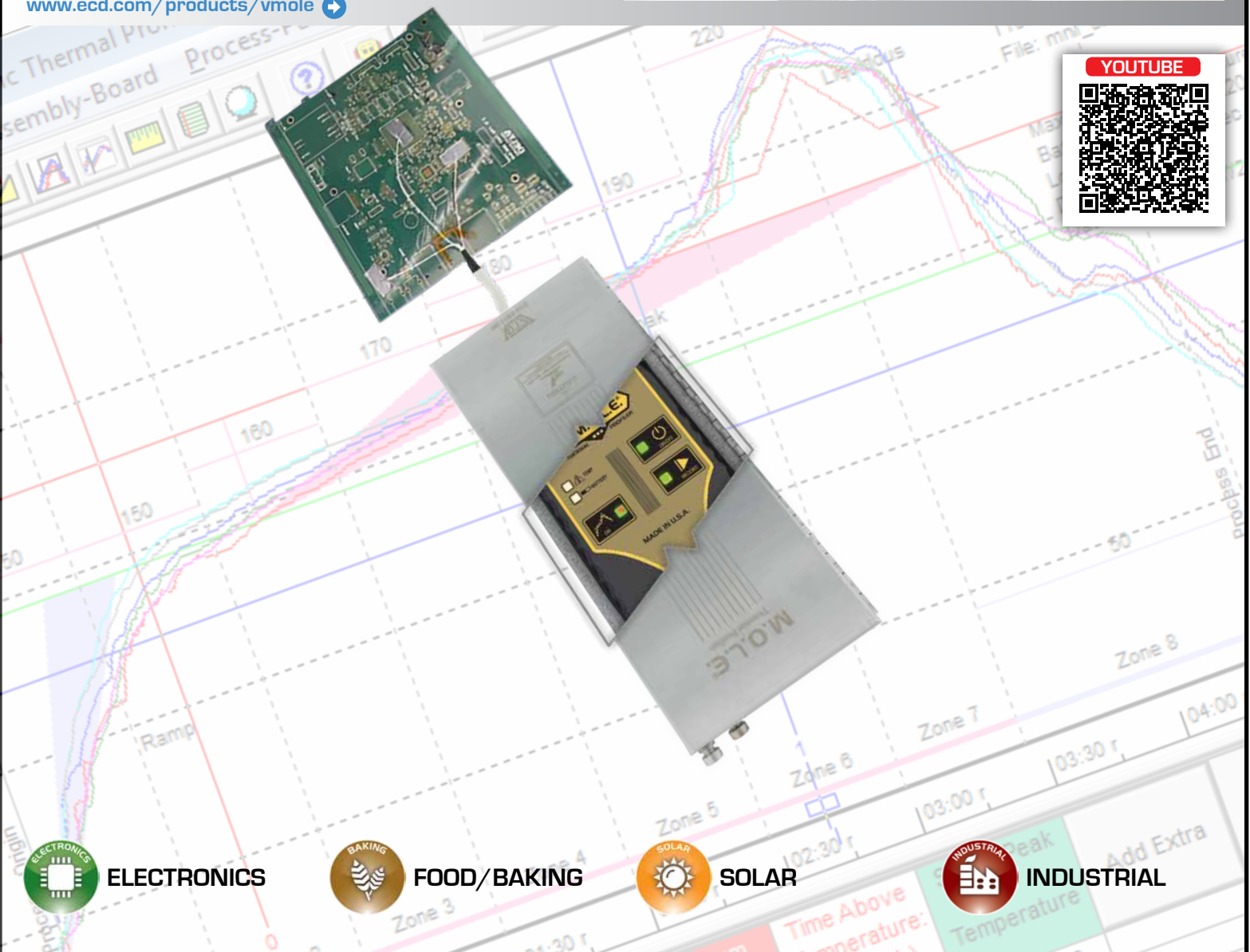
# V-M.O.L.E.®

"V" is for Value & Verification



The V-M.O.L.E.® is a full-featured compact thermal profiler that belies its sophistication in an easy-to-use 3-channel Mini-thermocouple configuration. Ideal for VERIFICATION of PCB profile performance, 3 channels give you Hot, Cold and Sensitive component data for verifying the correct oven settings. V-M.O.L.E.® also boasts the same powerful MAP software created for the MEGAM.O.L.E.® 20 thermal profiler, including the Target-10 feature, and of course, the patented "OK-Button" The world's only one-touch Go/No-Go indicator of profile compliance to pre-programmed specifications.

[www.ecd.com/products/vmole](http://www.ecd.com/products/vmole) ➔



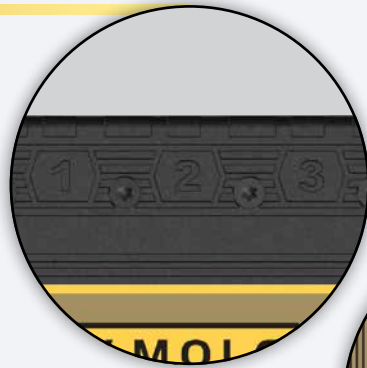
Value... everything you need for production profiling is in the Kit.



*Excellence in Measurement Solutions Worldwide*

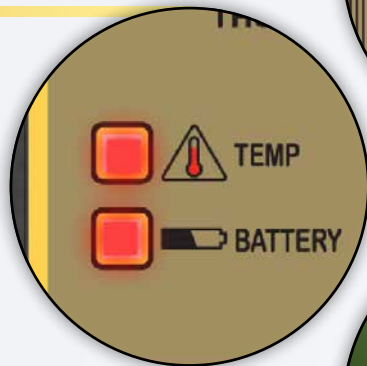
## PROFILE VERIFICATION

- 3 Channels, all you need to run a profile verification



## PROTECT YOUR TIME & PROFILER

- Know critical systems are "GO" before you thermal profile



## OK BUTTON

- Operator gets GO/NO-GO decision control
- Improves productivity
- Saves Time



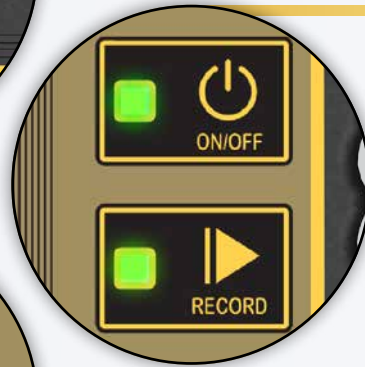
## EASY TO USE

- USB enabled Fast Upload, Download or Charge



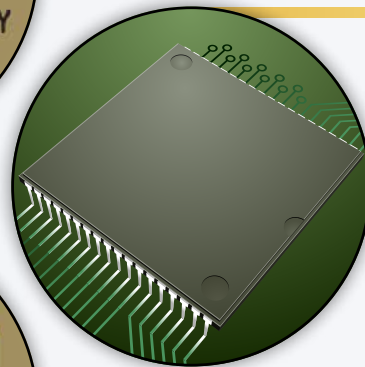
## NEVER LOSE A THERMAL PROFILE

- Separate On/Off & Record buttons
- Prevents lost profiles



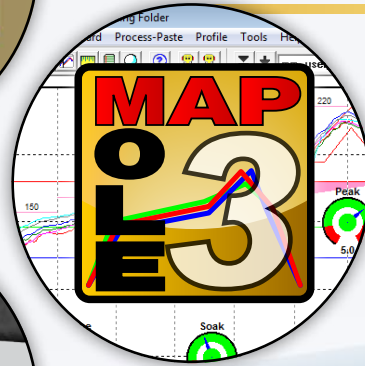
## 1.5 MILLION DATA POINT MEMORY

- 96 thermal profile storage lets you download on demand



## M.O.L.E.® MAP SOFTWARE

- Download and analyze the data with the ECD award winning software.





# SPECIFICATIONS

## THERMOCOUPLE SENSORS

3 Channels: Type K, Standard Mini Connectors

## COMMUNICATIONS

Interface: USB Compliant (charge;upload;download)  
Cable: USB Type A, Male-to-Mini B, 5 pin Male, 1m (3')

## DATA ACQUISITION

Sampling Interval: 0.1 seconds to 24 hours  
Data points: 500,000 total for 3 channels  
Data runs stored: 96 (Standard Thermal Profiles)  
Accuracy: +/- 1°C (1.8°F)  
Resolution: 0.056°C (0.1°F)  
Measurement range: -200°C to 1271°C (-328°F to 2320°F)

## POWER

Battery: Lithium Polymer - Rechargeable, 340mAh  
Charge Protection: optimized for lithium polymer  
Charge time:  
• Full: 8 hours  
• Partial: 15 min. charge allows one 10min. data run  
Charge Capacity:  
• 50 ten minute data runs\*  
Battery Life: 300-400 charging cycles or 3 years (Minimum)  
Charger input current: 175 ma via USB Interface  
Operating Range: 4.2V to 3.2V

\* New, fully charged Power Pack.

## SYSTEM INCLUDES (ECD P/N: E48-0509-00):

- V-M.O.L.E.® Thermal Profiler (w/integrated battery)
- Stainless steel thermal barrier
- Yellow Jacket Thermal Barrier Cover
- Glass set of 3 36-gauge thermocouples
- PC USB 2.0 Cable (Set-up, Download & Charge)
- M.O.L.E.® MAP Software
- Quick Reference Guide
- Soft Carrying Case

## PHYSICAL

Dimensions (L x W x H):  
• Profiler: 145mm (5.7") x 64mm (2.5") x 7.62mm (.3")  
• Barrier: 229mm (9") x 84mm (3.3") x 25mm (.98")  
• Yellow Jacket: 257mm (10.2") x 97mm (3.8") x 31mm (1.2")

Weight:

- Profiler: 0.068 kg (2.4 oz)
- Barrier: 0.595 kg (21 oz)
- Yellow Jacket: 0.045 kg (1.6 oz)

Operational range (Profiler): -40°C to +85°C (-40°F to 185°F)

Humidity: 0-85% RH (Non Condensing)

## COMPLIANCE

EN 301 489-01 V1.8.1:2008  
EN 300 328 V1.7.1:2006  
EN 301 489-17 V2.1.1:2009  
EN 60950  
R&TTE 1999/5/EC  
Low-voltage Directive 2006/95/EC  
RoHS 2002/95/EC  
WEEE 2002/96/EC



## PATENT

U.S. PATENT No. 7,653,502

## WARRANTY

2 years parts and labor

## WEBSITE

[www.ecd.com](http://www.ecd.com) ➔



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