

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/VM

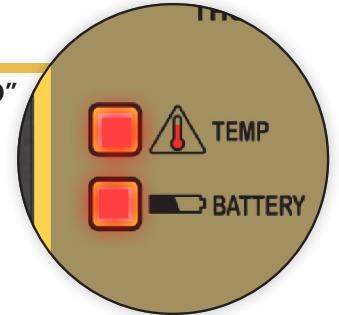
A large graphic showing a green PCB connected to a grey M.O.L.E. profiler unit. The profiler unit has a yellow control panel with buttons for "PROGRAM", "OK", "STOP", and "MENU". The background is a software interface with various charts and graphs. In the top right corner, there is a circular logo for ECD with the text "SINCE 1984" and four surrounding segments: "PROCESS DEVELOPMENT & VALIDATION", "MACHINE QUALITY MANAGEMENT", "USER INTERFACE ANALYSIS & OPTIMIZATION", and "COMPONENT DRY STORAGE". At the bottom, there are several circular icons representing different industries: "ELECTRONICS", "BAKING", "3D/ADDITIVE", "SOLAR", and "INDUSTRIAL".



FEATURES

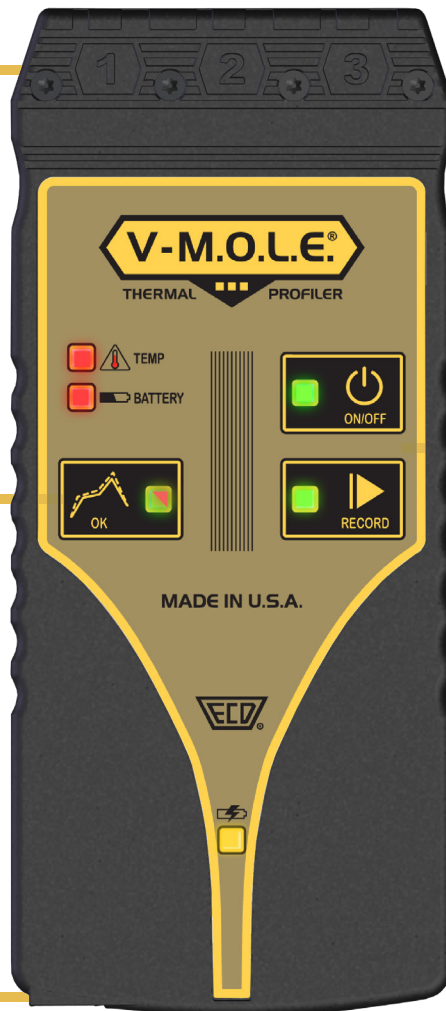
PROTECT YOUR TIME AND PROFILER

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



PROFILE VERIFICATION

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



OK BUTTON

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

NEVER LOSE A THERMAL PROFILE

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

1.5 MILLION DATA POINT MEMORY

- 96 thermal profile storage lets you download on demand

EASY TO USE

- USB enabled Fast Upload, Download or Charge



M.O.L.E.™ MAP SOFTWARE

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

V-M.O.L.E.™ SYSTEM

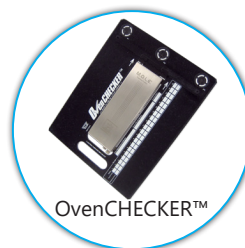
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SYSTEM INCLUDES:

- 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

Integrates with ECD OvenCHECKER™ for scalable machine quality management



Engineering Process Control Solutions for Over 50 years

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

PHYSICAL

Dimensions (L x W x H):

- Profiler: 145mm (5.7") x 64mm (2.5") x 7.62mm (.3")
- Barrier: 230.4mm (9.1") x 80.5mm (3.2") x 26.9mm (1.06")
- 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



PATENT

Patent No. 7,653,502


WARRANTY

2 years parts and labor

WEBSITE

WWW.ECD.COM

*New, fully charged Power Pack.

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|  <p>ECD WORLD HEADQUARTERS (North America - US, Canada) 4287-B SE International Way Milwaukie, Oregon 97222 U.S.A. Tel: +1 800 323 4548 E-Mail: sales@ecd.com Web: www.ecd.com</p> | <p>APAC (Asia-Pacific, China, India) Singapore Office Mobile: +65 9692 6822 E-Mail: ecd.asia@ecd.com</p> | <p>EMEA (Europe, Middle East, Africa) UK Office Mobile: +44 (0) 7903 252560 E-Mail: ecd.europe@ecd.com</p> | <p>LATAM (Mexico, Central, South America) Houston, TX U.S.A. Office Phone: +1 503 659 6100 x 250 Mobile: +1 832 533 0046 E-Mail: ecd.latam@ecd.com</p> |
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