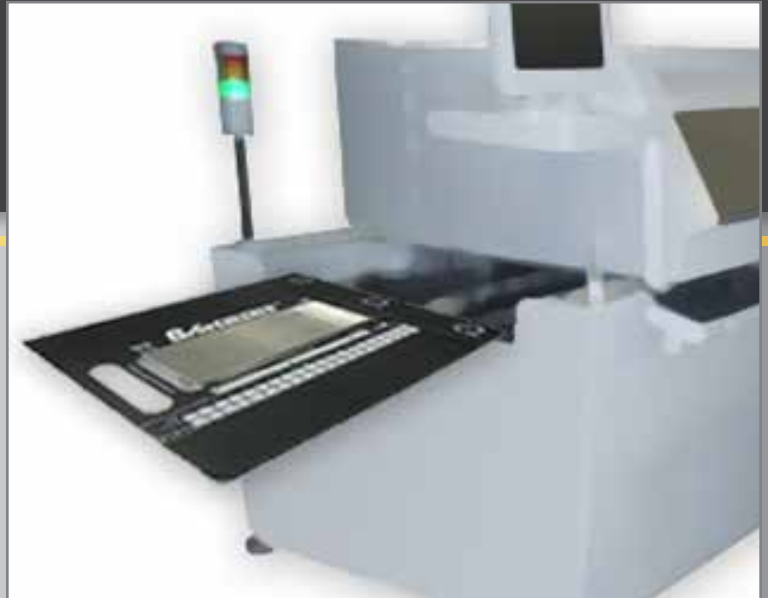


OvenCHECKER™

Reflow Process Verification... made Easy!



ECD, the world leader in thermal profiling solutions, introduces an easy to use yet powerful tool for verifying a production reflow oven - OvenCHECKER™.

Built around ECD's award winning V-M.O.L.E.® Thermal Profiler, the OvenCHECKER™ system comes complete with the profiler, thermal barrier, pallet with 3 surface sensors and M.O.L.E.® MAP software, making it a complete solution for reflow oven verification.

www.ecd.com/products/ovenchecker

Perfect Score = 10

Zone	Temperature (C)	Time Above (sec)	Peak - Temperature (C)
Zone 1	183	69.6	213.0
Zone 2	183	65.0	222.2
Zone 3	183	4.5	214.8
Zone 4	183	3.0	223.5
Zone 5	183	6.8	214.8
Zone 6	183	2.9	223.5
Zone 7	183	3.8	214.8
Zone 8	183	6.8	214.8
Zone 9	183	2.9	223.5
Zone 10	183	3.8	214.8

1.9 ELECTRONICS

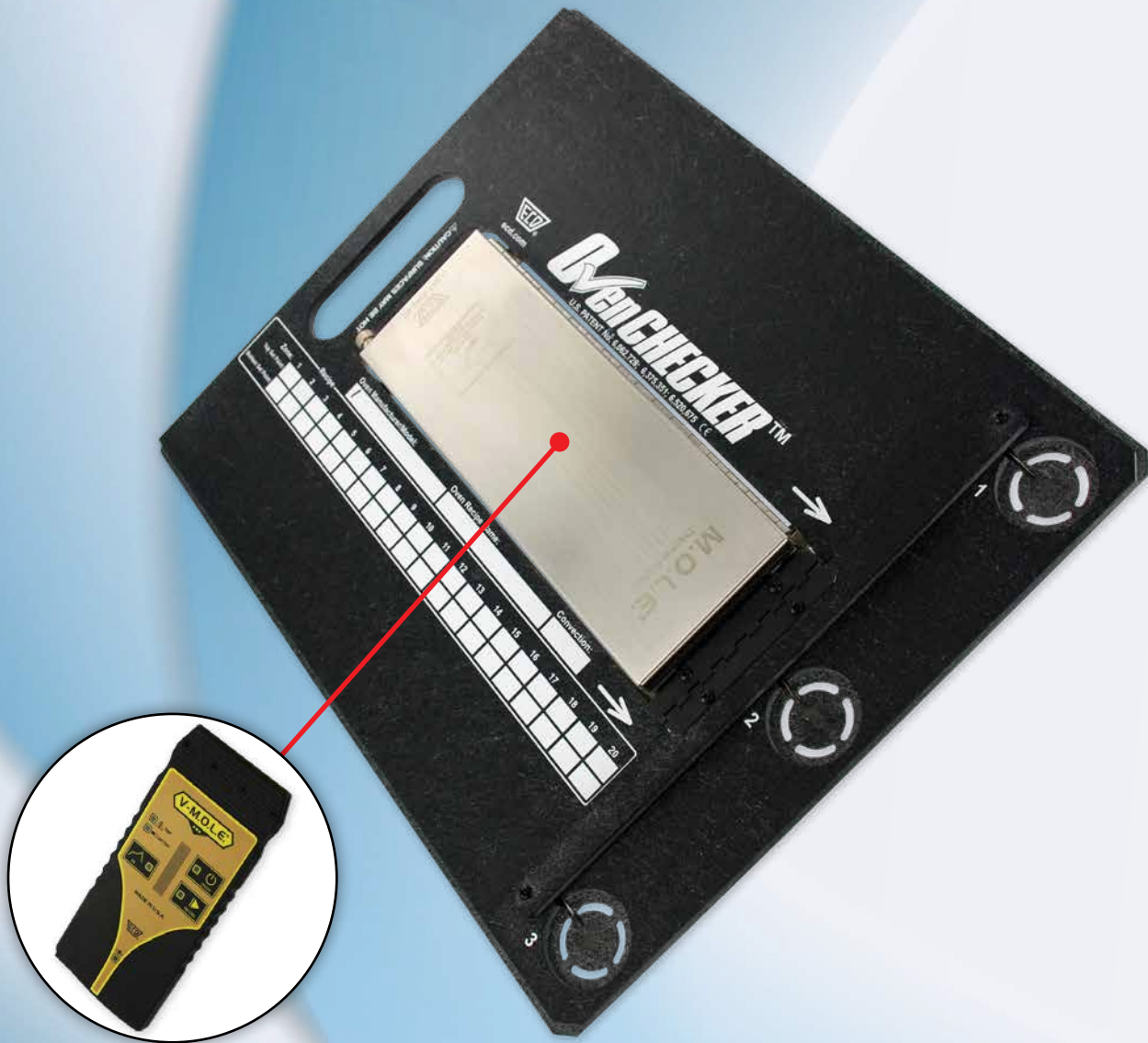
BAKING FOOD/BAKING

SOLAR

INDUSTRIAL

USA

The EASIEST way known to "Verify" a reflow oven profile!



SYSTEM KITS:

OvenCHECKER™ Standard System

- 12 in. [305 mm] wide pallet
- P/N: E49-2435-02

OvenCHECKER™ Custom System

- 7.5" to 18" [190 mm to 458 mm] wide pallet
- P/N: E49-2435-12

KITS INCLUDE:

OvenCHECKER™ Pallet

- Includes 3 sensors & Thermal Barrier

V-M.O.L.E.® Profiler

- With USB rechargeable battery

M.O.L.E.® MAP Software

PC USB 2.0 Cable

- Set-up, Download & Charging

Quick Reference Guide

Carrying Box

1 year warranty on materials and workmanship

Focused on Quality, Driven by Passion

V-M.O.L.E.® THERMAL PROFILER

Innovative “OK Button” feature, indicating **Go/No-Go** (relative to your profile specifications) at the touch of a button



EASY TO USE

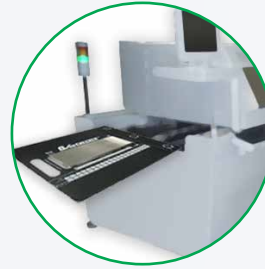
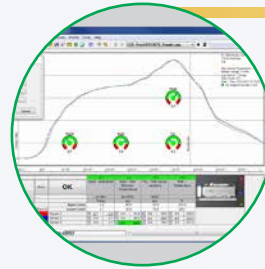
1: SPECIFY ✓

Engineer sets specifications in MAP software for profile:

- Ramp
- Soak
- TAL
- Peak

2: RUN ✓

Operator sends the OvenCHECKER™ through the oven.



THERMAL BARRIER

Thermal protective barrier for the V-M.O.L.E. Removable so it can be used for standard Thermal Profiling.



3 SURFACE SENSORS

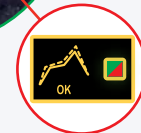
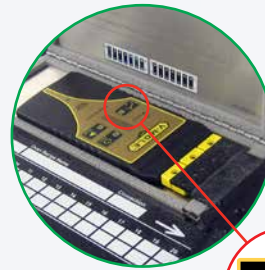
Similar in profile to FR4 PCB



3: VERIFY ✓

Operator presses the “OK” button.

- **Green = Go**
- **Red = Stop**



M.O.L.E.® MAP SOFTWARE

Create a Target-10™ specification file using the OvenCHECKER™

which provides:

- A simple color “Go/No-Go” test criteria
- Analog gauges for intuitive data interpretation
- Drill down Data for engineering analysis
- Configurability, so you can delegate decision-making

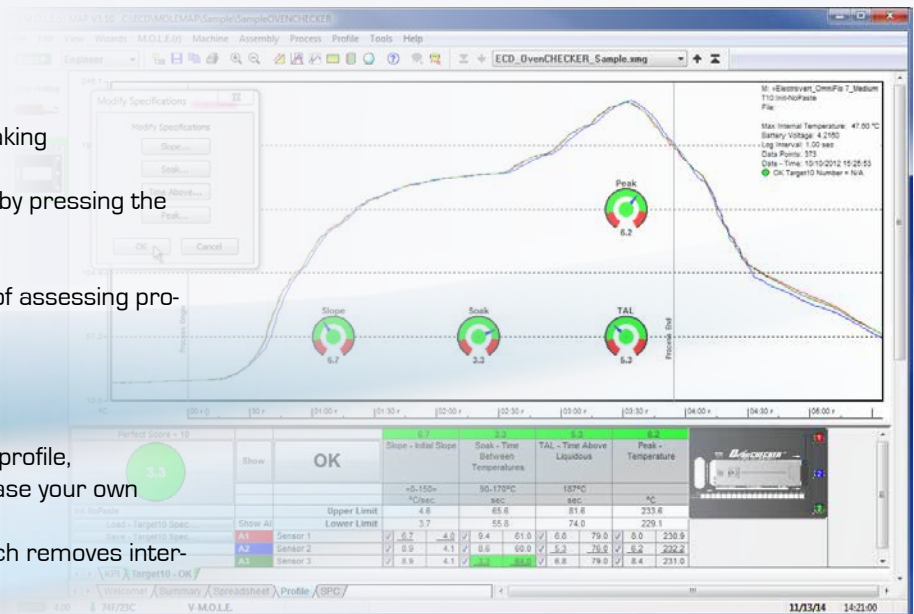
“Verify” your process using the OvenCHECKER™ by pressing the OK button.

ECD-exclusive “OK Button” makes for quick work of assessing profile to be IN or OUT of specification.

If you...

- Need to verify your oven profile,
- Need to train multiple production operators to profile,
- Need to delegate Go/No-Go decisions to increase your own productivity
- Desire easy to understand, objective data - which removes interpretation

... you need OvenCHECKER™



SPECIFICATIONS

PHYSICAL: OvenCHECKER™

- Length (Pallet):** 15.0in. [38.1cm]
Height (Thermal Barrier): 2.54cm [1.0in.]
- 17.8mm [0.7"] above conveyor chain
 - 7.6mm [0.3"] below conveyor chain
- Width (Pallet):** 30.5cm [12in.]
Weight (Pallet): 1656 grams [3.65 lbs.]
Pallet Surface Sensor Thickness: 1.58mm [0.062in.]
Max. Operational Temperature (Pallet): 300°C [572°F]
Max. Operational Temperature (Thermal Barrier):
- 200°C [392.0°F] for 10 min.
 - 150°C [302.0°F] for 15.8 min.

PHYSICAL: V-M.O.L.E.®

- Dimensions (L x W x H):**
- 145mm [5.7"] x 64mm [2.5"] x 7.62mm [.3"]
- Weight:**
- Profiler: 0.068 kg [2.4 oz]
- Max. Operational Range:** -40°C to +85°C [-40°F to 185°F]
Power Supply: USB Rechargeable Lithium Polymer

DATA ACQUISITION: V-M.O.L.E.®

- Sampling Interval:** 0.1 seconds to 24 hours
Data points: 500,000 total for 3 channels
Data runs stored: 96 (Standard Thermal Profiles)
Accuracy: +/- 0.5°C [0.9°F]
Resolution: 0.056°C [0.1°F]
Measurement range: -200°C to 1271°C [-328°F to 2320°F]

PATENT

U.S. PATENT No. 6,062,728; 6,375,351; 6,520,675

WARRANTY

1 year parts and labor

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