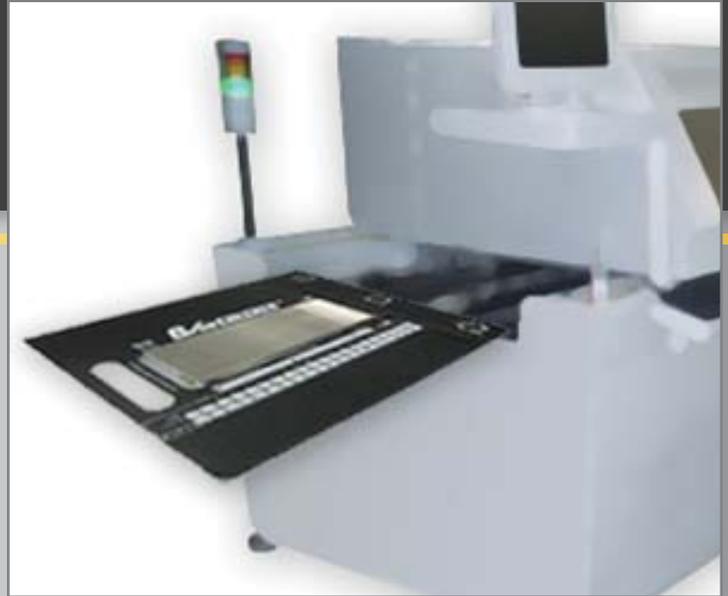


OvenCHECKER™

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

The software interface displays a reflow curve with a peak highlighted. The data table below the curve shows the following information:

Zone	Temperature (C)	Time Above (sec)	Peak - Temperature (C)
Zone 1	155-183C	77.6	224.9
Zone 2	183C	69.6	213.0
Zone 3	73.0	6.8	222.2
Zone 4	65.0	2.9	214.8
Zone 5	76.0	3.8	223.5

Other software elements include a 'Perfect Score = 10' indicator, a 'Show All' button, and a 'Sensor' list with A1, A2, and A3 sensors. The interface also features icons for 'ELECTRONICS', 'BAKING', 'SOLAR', and 'INDUSTRIAL' applications.

The EASIEST way known to “Verify” a reflow oven profile!



Excellence in Measurement Solutions Worldwide

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



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

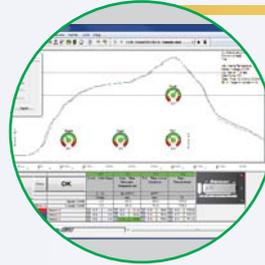


EASY TO USE

1: SPECIFY ✓

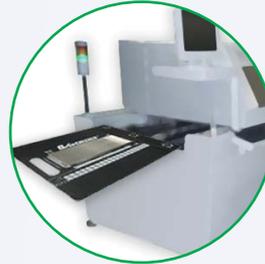
Engineer sets specifications in MAP software for profile:

- Ramp
- Soak
- TAL
- Peak



2: RUN ✓

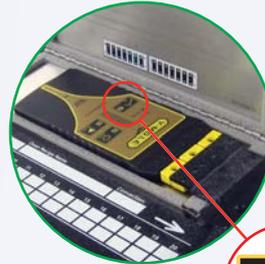
Operator sends the OvenCHECKER™ through the oven.



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

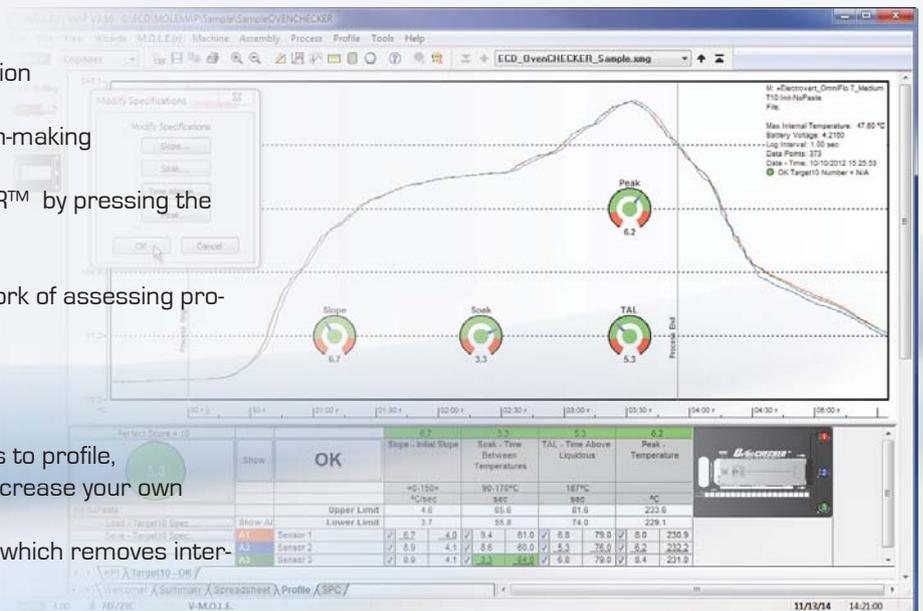
"Verify" your process using the OvenCHECKER™ by pressing the OK button.

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: +/- 1°C (1.8°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

WEBSITE

www.ecd.com ➔



ECD North & South America
World Headquarters
4287-B SE International Way
Milwaukie, Oregon 97222-8825 U.S.A.
Tel: +1 503 659 6100 / +1 800 323 4548
Fax: +1 503 659 4422
E-Mail: sales@ecd.com | Web: www.ecd.com

ECD Asia/Pacific
Singapore
Mobile: +65 9692 6822
Fax: +65 6241 9890
E-Mail: ecd.asia@ecd.com

ECD Europe/Africa/Middle East
Mobile: +48 512 659 100
E-Mail: ecd.europe@ecd.com

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

OPTIONS:

OvenCHECKER™ Pallet Kit: Pallet, Quick Reference Guide, Carrying Box & 1 year warranty on materials and workmanship

• Top rated customer support • No-cost ECD Online Training • Award winning software •