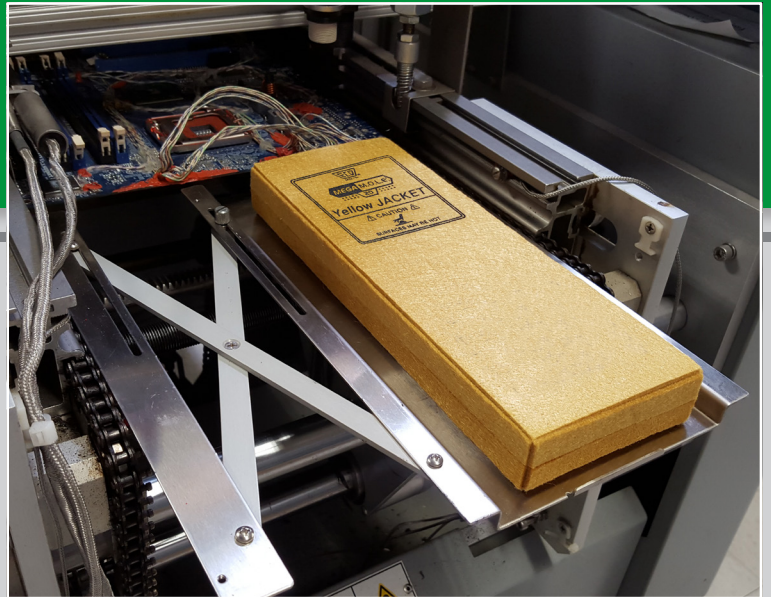


# MEGAM.O.L.E.™ 20

ADVANCED PROFILING FOR HIGH-RELIABILITY, HIGH-VALUE PCBs



Do you demand the highest density of thermocouple placement possible on your Hi-Reliability, High-Value PCB? ECD's got your Spec! Do you expect a software package that flexes with your workflow, providing customizable data extractions, Imports of your .MDM M.O.L.E. libraries and compatibility with your intranet, Excel, and all ECD M.O.L.E.™ Profilers? The MEGAM.O.L.E.™ 20 delivers your specifications in a sleek 7.2mm thin package with patented productivity enhancing features that will give you the edge in R&D decision making to WOW. Management, Customers and your OEM-EMS QA linkage.

[WWW.ECD.COM/MM20](http://WWW.ECD.COM/MM20)

A detailed photograph of the MEGA M.O.L.E. 20 Thermal Profiler device. The device is a handheld, ruggedized unit with a grey and black casing. It features a control panel with several buttons labeled 'TEMP', 'BATTERY', 'RF', 'ON/OFF', 'RECORD', and 'OK'. A small display screen shows numerical data. The device is connected to a PCB assembly line via several colored cables. The background shows a factory floor with various zones and equipment.

**IMPORTANT!**  
\*ALWAYS remove the M.O.L.E.™ Profiler from enclosure immediately after use.  
\*ALWAYS cool the M.O.L.E.™ Profiler and enclosure to room temperature before use.

YOUTUBE

PROCESS DEVELOPMENT & VALIDATION  
MACHINE QUALITY MANAGEMENT  
ECD SINCE 1984  
USER INTERFACE ANALYSIS & OPTIMIZATION  
COMPONENT DRY STORAGE

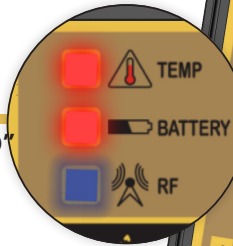
ELECTRONICS  
BAKING  
3D/ADDITIVE  
SOLAR  
INDUSTRIAL

USA

# FEATURES

## PROTECT YOUR TIME & PROFILER

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

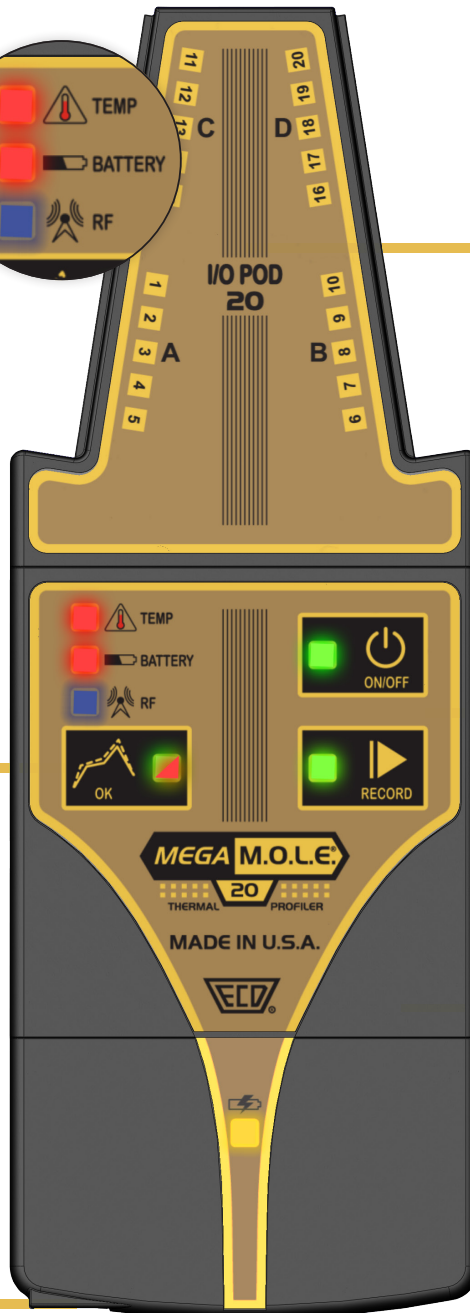


## OK BUTTON

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

## EASY TO USE

- USB enabled Fast Upload, Download or Charge
- Built-in Wireless Option



## PROFILING PRECISION

- Elevates profiling precision of large complex boards to 20 PCB locations to satisfy OEM and R&D demands

## 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.



# MEGAM.O.L.E.™ 20 SYSTEM

[ECD P/N: E47-6342-00]



## SYSTEM INCLUDES:

- MEGAM.O.L.E.™ 20
  - Thermal Profiler
  - Input/Output Module
  - Rechargeable Power Pack Battery
- Stainless Steel Thermal Barrier
- Yellow Jacket Thermal Barrier Cover
- 4 Sets of 5 Glass Color-Indexed 36-gauge thermocouples
- M.O.L.E.™ MAP Software
- PC USB 2.0 Cable (Set-up & Download)
- Universal Power Pack Charger
- Quick Reference Guide
- Carrying Case

*Engineering Process Control Solutions for Over 50 years*

# SPECIFICATIONS

## THERMOCOUPLE SENSORS

Up to 20 Type K ECD Nano-Thermocouples

## 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: 75,000 for all 20 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.

## PHYSICAL

Dimensions (L x W x H):

- Profiler: 179mm (7") x 64mm (2.5") x 7.12mm(.28")
- Barrier: 230.4mm (9.1") x 80.5mm (3.2") x 26.9mm (1.06")
- Yellow Jacket: 257.8mm (10.2") x 97mm (3.8") x 31mm (1.2")

Weight:

- Profiler: 0.204 kg (7.2 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

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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