

# MEGAM.O.L.E.® 20

THE FIRST TRUE PROFILING INNOVATION IN YEARS...



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/products/megamole20](http://www.ecd.com/products/megamole20) ➔



ELECTRONICS



FOOD/BAKING



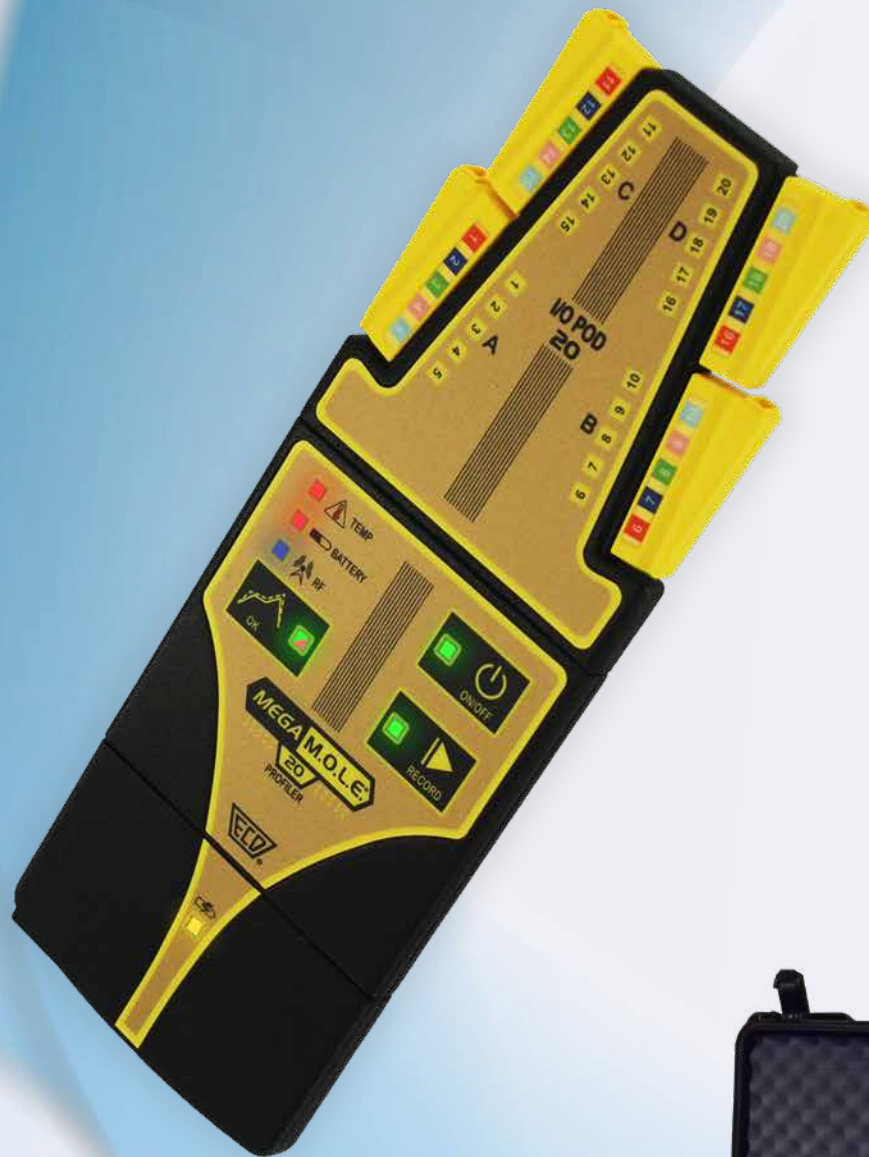
SOLAR



INDUSTRIAL



# A New Innovation in Thermal Profiling



## SYSTEM INCLUDES (ECD P/N: E47-6342-00):

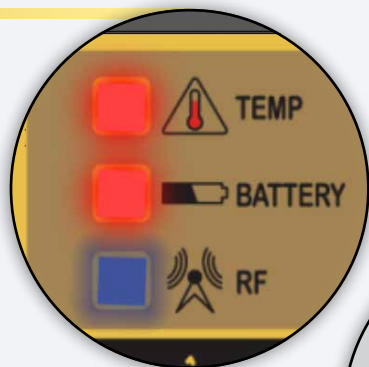
- MEGAM.O.L.E.® 20 Thermal Profiler
- MEGAM.O.L.E.® 20 Input/Output Module
- MEGAM.O.L.E.® 20 Rechargeable Power Pack Battery
- Stainless Steel Thermal Barrier
- Yellow Jacket Thermal Barrier Cover
- 4 Sets of 5 Glass Color-Indexed 36-gauge thermocouples
- PC USB 2.0 Cable (Set-up & Download)
- Universal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

***Focused on Quality, Driven by Passion***



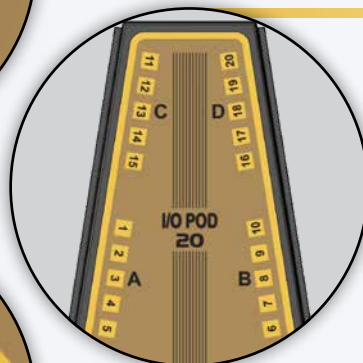
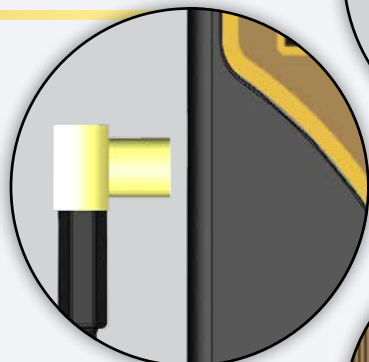
## PROTECT YOUR TIME & PROFILER

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



## WIRELESS RF

- Built-in Wireless Option

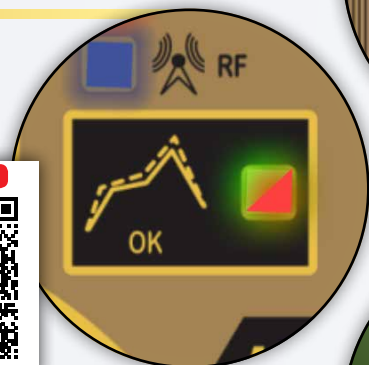


## PROFILING PRECISION

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

## OK BUTTON

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



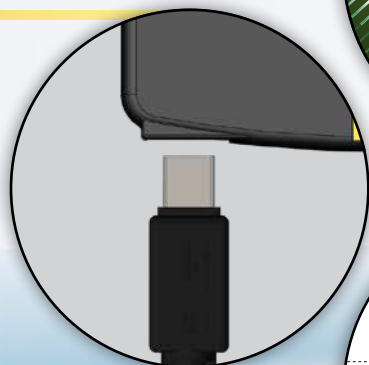
## NEVER LOSE A THERMAL PROFILE

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



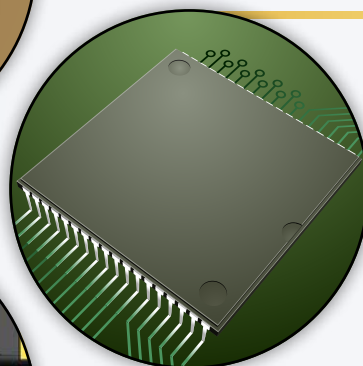
## EASY TO USE

- USB enabled Fast Upload, Download or Charge



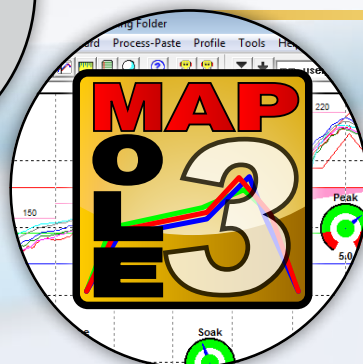
## 1.5 MILLION DATA POINT MEMORY

- 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

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: +/- 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)

## 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 23.8mm (.94")
- 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

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 (E47-6342-45 ONLY)  
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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