

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 ➔

A large photograph of the MEGAM.O.L.E. 20 Thermal Profiler device in its grey carrying case. The case is open, revealing the device and a printed manual. The manual has a section titled 'IMPORTANT!' with instructions: 'ALWAYS remove the M.O.L.E. Profiler from enclosure immediately after use.' and 'ALWAYS cool the M.O.L.E. Profiler and enclosure to room temperature before use.' The device itself is black and yellow, with a control panel featuring buttons for 'TEMP', 'BATTERY', 'RF', 'ON/OFF', 'RECORD', and 'OK'. It also has a display screen and several indicator lights. The device is connected to various cables. The background of the image is a technical drawing or graph with labels like 'Zone 7', 'Zone 8', and 'Zone 9'.

YOUTUBE

ELECTRONICS

BAKING

FOOD/BAKING

SOLAR

SOLAR

INDUSTRIAL

INDUSTRIAL

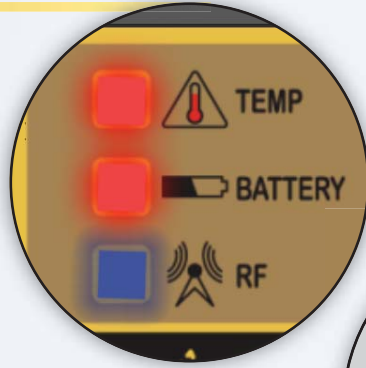
A New Innovation in Thermal Profiling



Excellence in Measurement Solutions Worldwide

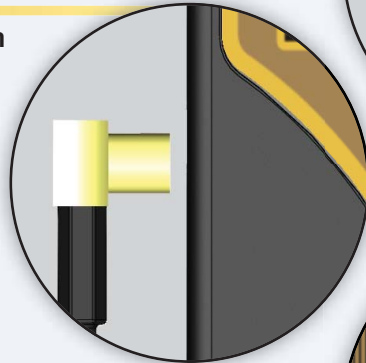
PROTECT YOUR TIME & PROFILER

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



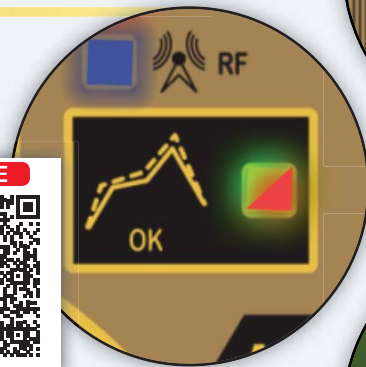
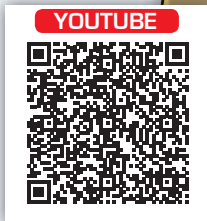
WIRELESS RF

- Built-in Wireless Option



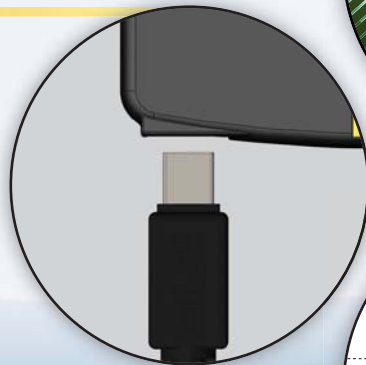
OK BUTTON

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



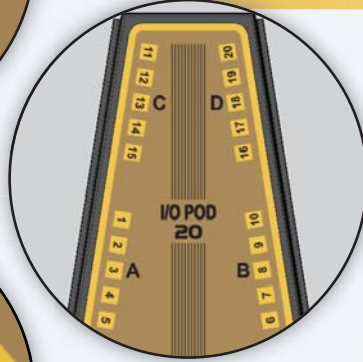
EASY TO USE

- USB enabled Fast Upload, Download or Charge



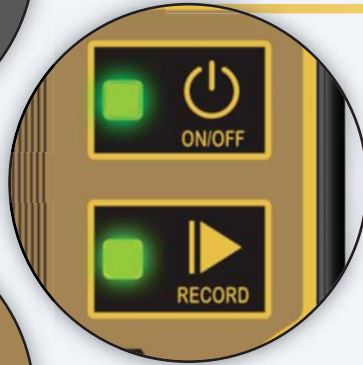
PROFILING PRECISION

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



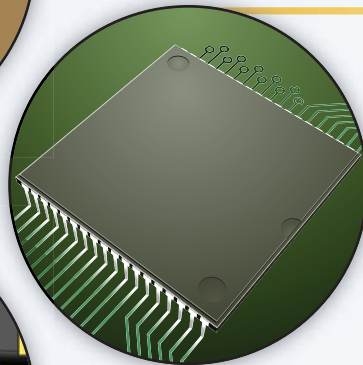
NEVER LOSE A THERMAL PROFILE

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



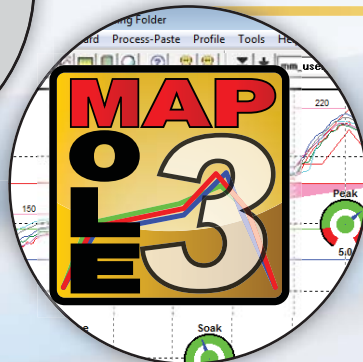
1.5 MILLION DATA POINT MEMORY

- 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.



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.

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

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

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