

PDR FORENSICS

CHIPMATE. CONTROLLED CHIP-OFF.

A controlled manual system for laboratories wanting Focused Infrared heating and repeatable thermal profiles.



CONTROLLED. MANUAL. REPEATABLE.

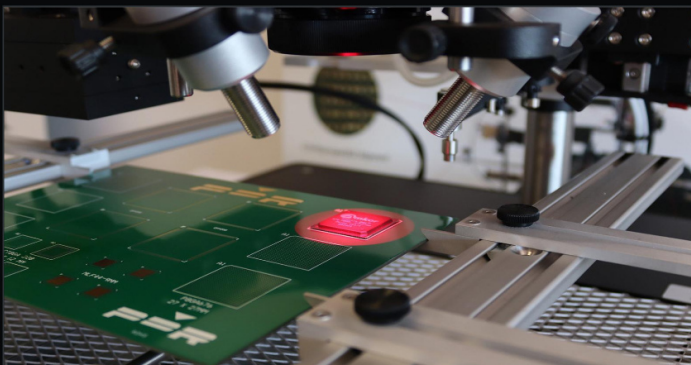
Temperature-controlled Focused IR. Stored thermal profiles. Designed for forensic laboratories.

WHY CHIPMATE?

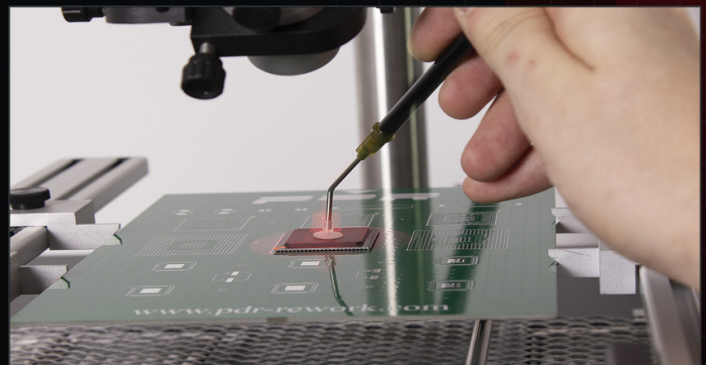
CONTROLLED. MANUAL. REPEATABLE.

Start with the controlled thermal process first. Chipmate brings Focused IR, PCB conditioning and stored profiles into an accessible manual platform.

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|---|--|
| <p>01</p> <p>CONTROL THE HEAT</p> <p>Focused IR applies energy to the target while PCB temperature is monitored separately.</p> | <p>WHY IT MATTERS</p> <p>Reduces unnecessary thermal exposure to the rest of the assembly.</p> |
| <p>02</p> <p>REPEAT THE PROFILE</p> <p>ThermoActive stores a proven thermal process for reuse.</p> | <p>WHY IT MATTERS</p> <p>The next procedure starts from a known profile rather than operator judgement alone.</p> |
| <p>03</p> <p>MANUAL REMOVAL</p> <p>Lift the component using the hand-held vacuum tool once full solder reflow is achieved.</p> | <p>WHY IT MATTERS</p> <p>Keeps the movement under direct examiner control.</p> |



FOCUSED INFRARED | TARGETED COMPONENT HEATING

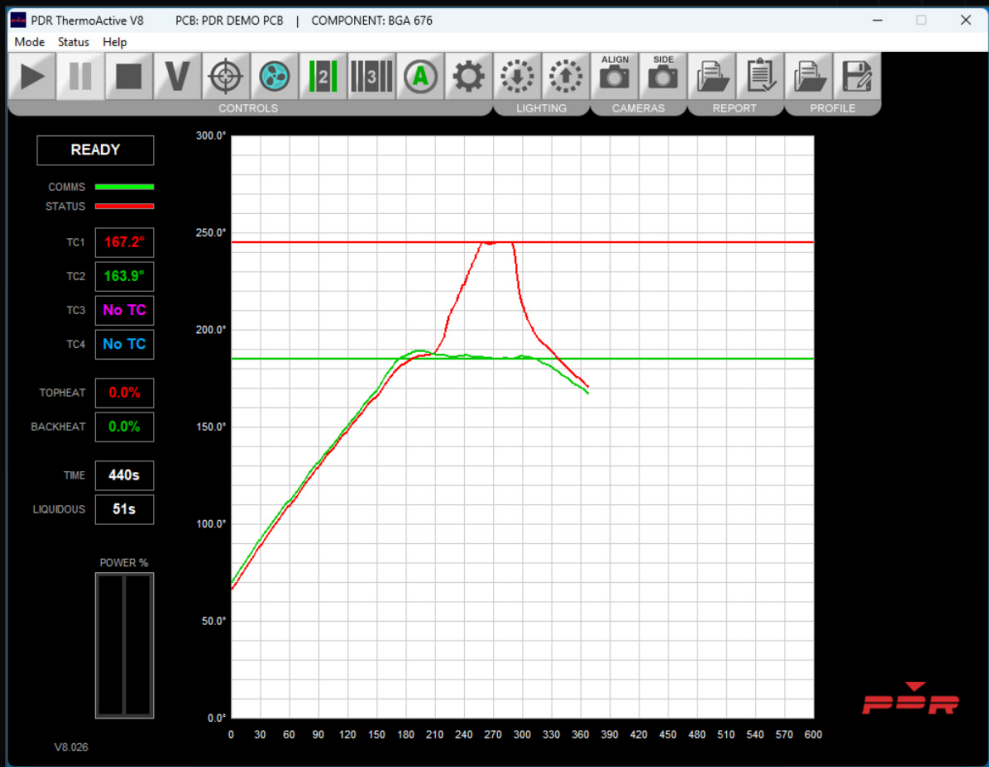


MANUAL COMPONENT REMOVAL AFTER FULL REFLOW

THERMOACTIVE PROCESS CONTROL

THERMOACTIVE PROFILE CONTROL.

Create and store thermal profiles, monitor the process using the sensors fitted to Chipmate, and repeat proven thermal settings with less reliance on operator judgement alone.



FULL THERMOACTIVE INTERFACE

RED = COMPONENT · GREEN = PCB

CREATE + STORE PROFILES

Build a proven thermal profile and save it for reuse.

MONITOR THE PROCESS

Use the sensing fitted to Chipmate to follow the controlled procedure.

REPEAT PROVEN SETTINGS

Return to the same thermal settings on future work.

DOCUMENT THE PROCESS

ThermoActive provides software-led process visibility and reporting.

MACHINE + CORE SPECIFICATION

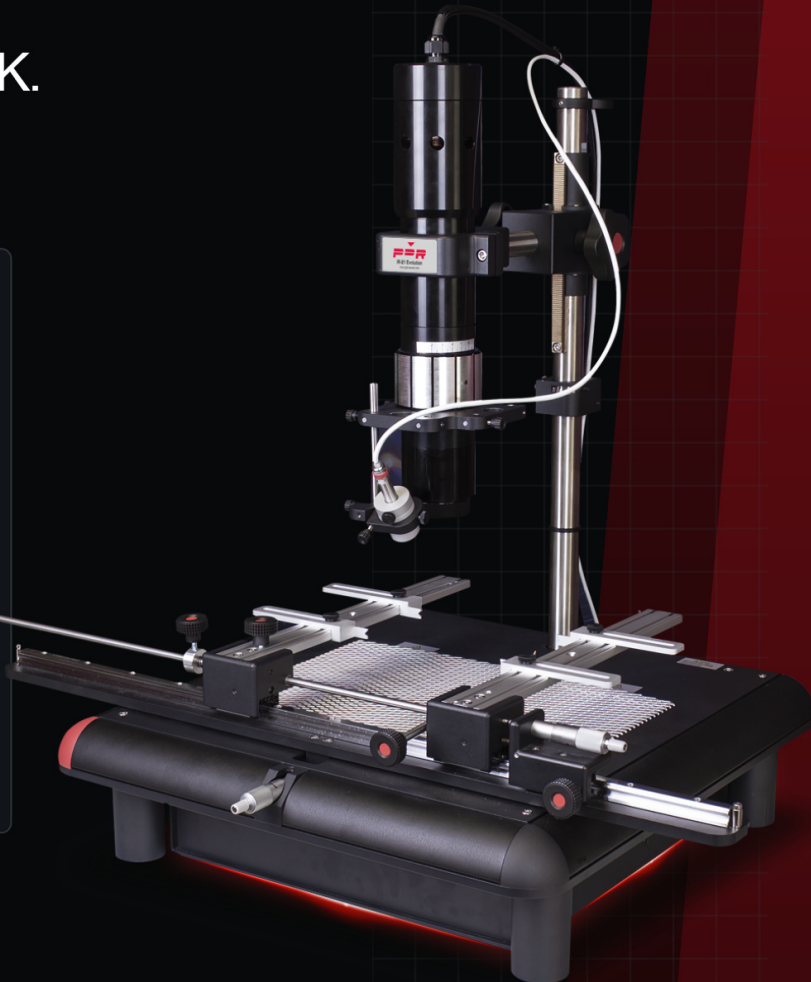
CHIPMATE. SEE IT ON YOUR CASEWORK.

CORE SPECIFICATION

MAX PCB	300 x 450 mm
MAX COMPONENT	55 x 55 mm
MIN COMPONENT	01005 package
TOP HEATER	150W focused IR, Ø70 mm
PCB PREHEATER	2800W, 3 zones
COMPONENT SENSING	Non-contact IR sensor
PCB SENSING	K-type thermocouple
REMOVAL	Hand-held vacuum tool
SOFTWARE	ThermoActive

PDR FORENSICS

Designed and manufactured in the United Kingdom. Precision infrared since 1985. More than 5,000 PDR systems supplied worldwide.



NEXT STEP

ARRANGE A DEMONSTRATION

See the system operate on representative devices and boards from your own workflow.

SALES@PDR-FORENSICS.COM

COMPONENT CAPABILITY

BUILT FOR CRITICAL COMPONENT RECOVERY.

Controlled Focused IR supports repeatable removal across the component types commonly encountered in forensic laboratory workflows.

COMPONENTS WE SAFELY REMOVE



eMMC / eMCP
EMBEDDED MEMORY



NAND FLASH
RAW FLASH MEMORY



UFS
HIGH-SPEED STORAGE



CPU / SoC
PROCESSING DEVICES



POWER IC
POWER DEVICES



PMIC
POWER MANAGEMENT

TRUSTED BY



POLICE FORCES



FORENSIC
LABORATORIES



GOVERNMENT
AGENCIES



DATA RECOVERY
SPECIALISTS



AIR ACCIDENT
INVESTIGATION

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