



PDR IR-XT1 **SolderLight Professional**

*Precision IR Handtool System
for SMT and BGA Rework*



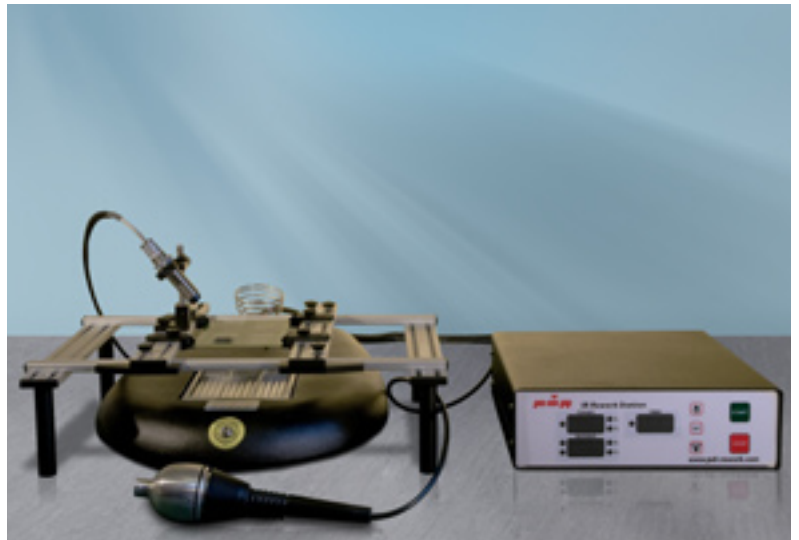


Advanced Features

- Focused IR component heating
PDR's patented tool-free IR technology
- Quartz IR PCB preheater
120mm x 120mm, 750w system
- Precise process controls
Multiple temperature time profiles
- Closed-loop temperature control
Independent 2-channel component and PCB
- Easy to set up and use
Simple, effective, ergonomic design
- In-built vacuum pump
Precise hand held vacuum pick-up tool

Major Advantages

- No nozzles, focus hoods or shields
Any shape or size component covered
- Low cost of ownership
Nearly zero follow-on costs
- Precise, focused component heating
IR, with no effect on adjacent components
- Excellent process control
Professional Preheat-Reflow-Soak soldering process
- Easy to set up and use
Clean, simple, 100% yield process



BGA rework in a handtool

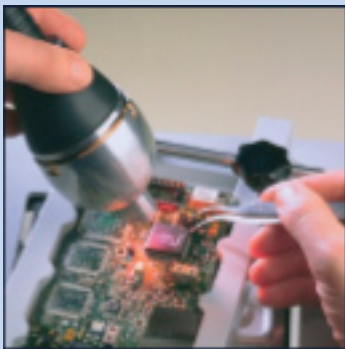
PDR introduces the PDR IR-XT1 SolderLight Professional SMT/BGA rework handtool system, using PDR's patented Focused IR Handtool technology. The IR-XT1 handtool has been specifically designed to cope with the challenges of repairing today's PCB assemblies.

The system is tip/nozzle free, gas free, instantly/precisely controllable, clean and produces high quality BGA rework without any complications. The operator is able to rework BGAs/uBGAs/CSPs using the accurate process control necessary for the effective rework of even the most advanced packages, including SMDs, BGAs, CSPs, Flipchips and is ready for 0201 and lead-free applications.

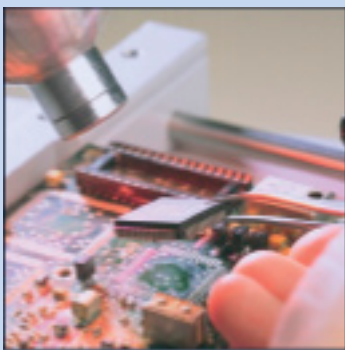
The PDR IR-XT1 SolderLight Professional comes with a good range of standard features allowing the operator to quickly and safely rework all types of SMDs without overheating the component, adjacents or the PCB. It uses all the proven attributes of PDR's Focused IR technology, first introduced in 1987 and now used worldwide by over 3500 customers.



Apply flux and preheat PCB



Heat component with IR handtool



Remove component

Simple BGA rework procedure

BGA rework requires a system that is able to heat the hidden joints without displacing adjacent components. A system that is safe, gentle, adaptable and, above all, simple to operate.

The PDR IR-XT1 SolderLight Professional is so easy to operate that technicians are able to instantly achieve excellent process control for BGA/SMT rework without the complexities and frustrations normally associated with 'high end' rework systems.

To desolder a BGA, simply apply some flux, preheat the PCB, then use the hand tool to heat the component to reflow and remove it. To replace new BGA, apply flux, place and align component, preheat then reflow.

With the aid of excellent accessories, process control is easy. Operators who prefer handtools can now simply repair assemblies with BGAs. Perfect quality BGA rework in a simple to use handtool!

Detailed features and specifications

- Advanced focused IR handtool component heating
150w, Ø14mm focused IR spot
Reworks all SMDs/ BGAs including 0201s + lead free applications
- Large area IR PCB preheater system
Medium wave quartz IR PCB preheating
750W, single zone (120mm x 120mm area)
- Portable PCB Workholder
Up to 12" x 10" (300mm x 250mm) capacity
- PDR type 9 digital control system
Multiple profile, pre-heat - reflow - soak process
PCB and component temperature control
- (Optional) Non-contact IR sensor for measuring component temperature
(Standard) K-type wire thermocouple for measuring PCB temperature
(Optional professional K-type probe for measuring PCB temperature
Realtime monitoring of PCB and component temperatures throughout process
- In-built electric vacuum pick-up
Hand held vacuum pick-up tool with silicon cups

Benchtop requirements

Topheat power -	150 watts IR
Backheater power -	750 watts IR
Voltage/frequency -	110/240 volts 50/60Hz
Typical components -	CSPs, BGAs, micro-BGAs, QFPs, PLCCs, SOICs, small SMDs
Bench area required -	600mm x 600mm
Weight -	15 Kg

PDR

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PDR's products are available worldwide via our international distributors, all offering professional sales and support.
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