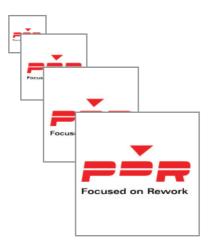
X310 IR Rework Station



X310 | IR Rework Station



Advanced Features

- Focused IR Component Heating PDR's patented technology
- IR PCB Preheater 120mm x 120mm, 500w system
- Precision Component Placement
 Low Force Landing and Rotation
- Non-Contact IR Sensor
 For Measuring Component Temperature
- Optional PC Control Package With PDR ThermoActive Software Suite
- Optional BGA/Micro-BGA
 Alignment
 CCTV/Prism Based System
- Optional Component Nest and Paste
 Application Facility
 Print Frame
- Optional X/Y Workholder
 X-Y Micro Movement with
 Micrometer Adjustment



Low Cost, Upgradeable BGA Rework System

Today there is a need for lower cost and upgradeable equipment without a loss in soldering quality. The PDR-X310 SMT/BGA rework system, using PDR's patented Focused IR technology, has been specifically designed to meet this challenge.

The IR-X310 comes with a good range of standard features allowing the operator to quickly, safely rework all types of components and can be upgraded from a basic system to a fully 'loaded' BGA rework system (right).



The system is tool free, gas free, instantly/precisely controllable, clean, modular, upgradeable and produces 100% yield BGA rework without any complications. The X310 uses all the proven attributes of PDR's Focused IR technology, first introduced in 1987 and now used worldwide by over 3000 customers.





BGA Alignment (optional)



Placement (optional micro rotation)



Reflow

Major Advantages

- No nozzles, focus hoods or shields Any shape or size component covered
- Low cost of ownership
 Nearly zero follow-on costs
- Fully modular and upgradeable Easily configured to meet any requirements
- Precise, focused component heating IR, with no effect on adjacent components
- Excellent control and mechanics With non-contact, component temperature sensing
- Easy to set up and use Clean, simple, 100% yield process

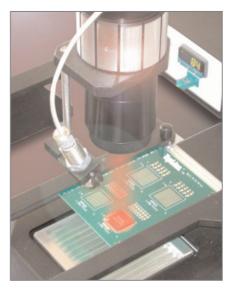
Authorised Distributor



BGA rework poses the problem of accessing hidden interconnects in a high density environment. Consequently, it requires a system that is able to access the hidden joints without affecting neighbouring components. A system that is safe, gentle, adaptable and, above all, simple to operate.

The IR-X310 is such a system. It 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.

With the aid of excellent standard/optional mechanics, optics and control, operators can simply pick up the BGA, align it, place it into fluxed pads and reflow with the system's accurate closed-loop component temperature control.





PDR ThermoActive Software (optional)

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A full list of PDR distributors offering professional sales and support can be found at www.pdr-smt.com/contacts.



For full detailed features and specifications on the PDR IR-X310 visit www.pdr-smt.com/x310

X310 Technical Specifications

Detailed Features and Specifications

- Advanced Focused IR Component Heating
 Lens Based Focused IR heating with adjustable image system
 PDR lens attachments with IR image from 4 to 70mm diameter
 Reworks all SMDs/ BGAs including 0201s + lead free applications
- 500W IR PCB Preheater System
 medium wave IR PCB preheating
 500W power
 Single zone (120mm x 120mm area)

• PDR Lens Attachments

F150 (4 -18mm spotsize) optional F200 (10 -28mm ") optional F400 (12 -35mm ") optional F700 (25 -70mm ") standard

- **Precision Pick-up System** Vacuum operated pick and place with precise macro-micro Z axis movement 360° component rotation Optional Micrometer control for soft component landing Optional component micro rotation Optional Component nest and 'print frame' facility for paste application
- **450mm Portable benchtop mounted PCB Workholder** Up to 12" X 10" (300mm X 250mm) capacity Optional pcb 'pallet' providing macro-micro X-Y adjustments
- Non-contact, IR Sensor for measuring component temperature Manually adjustable, K-type non-contact IR sensor Realtime monitoring of component temperature throughout process
- Digital, Closed-loop Electronic Control Type 2, digital controller Simple dial setting power controls CAL digital temperature controller - controls component temperature.
- **Optional PC Control Package with PDR ThermoActive V3 Software Suite** Type 5, Digital controller with multi functional features Multi K-type thermocouple (x4) capacity for temp/time testing Advanced, Windows 98/me/XP/NT ThermoActive V3 software suite Realtime, closed loop component/PCB temperature control Drag and drop profile setting Temperature profiling and data logging
- Optional Prism based BGA/micro-BGA alignment system Split beam prism system for simultaneous PCB/component viewing BGA, CSP and leadless component alignment Integral LED lighting system with illumination level control Full colour 1/2" CCTV camera and 15" TFT/LCD Flatscreen colour monitor Computar zoom lens with up to X50 magnification Precise X/Y axis mounting system

Benchtop Requirements

Topheat power Backheater power Voltage/frequency Typical components Bench area required Weight	 150 watts IR 500 watts IR 110/240 volts 50/60Hz CSPs, BGAs, micro-BGAs, QFPs, PLCCs, SOICs, small SMDs 1400mm x 600mm 65 Kg

PDR reserves the right to improve or change specifications without giving notice.

