

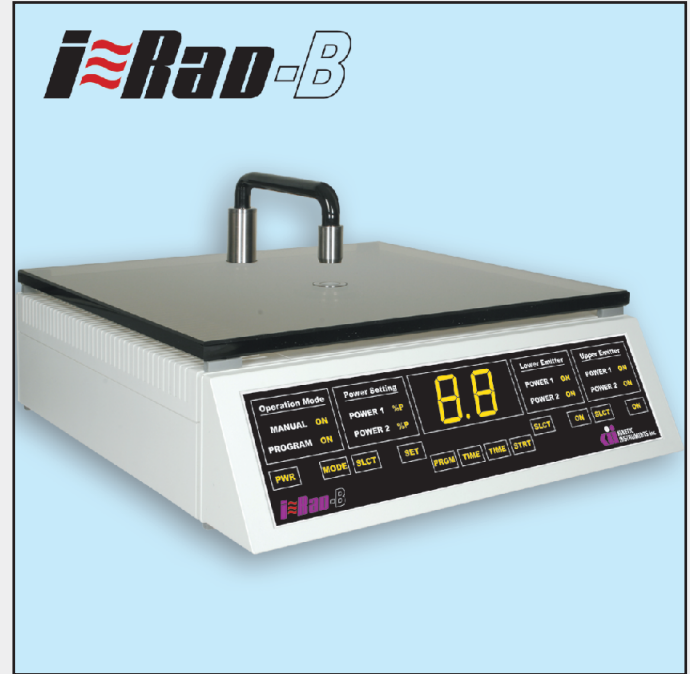
SPECIFICATIONS

iRad-B Infrared SMT Rework Station Variable Intensity Lower and Upper IR Emitters

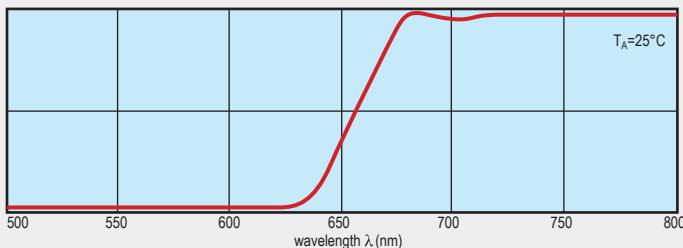
I-Rad-B is truly a unique innovation. With its lower and upper high intensity infrared emitters, removal and replacement of most SMT components only takes a matter of seconds. Instead of heating the entire PCB board in an unnecessary preheat operation, the lower emitter optically directs the IR radiation to exactly where it is needed. Therefore, reflow only takes seconds, not minutes. The upper emitter is utilized to effectively remove larger components such as flat packs or high pin count SOIC packages.

The system can be operated manually by using two foot controls that operate independently to control each emitter. For reflow "profile" rework, the unit has a programmable automatic mode that can be used to perform multiple identical cycles for removing or replacing similar components. Infrared energy is generated using two 100 watt IR enhanced halogen lamps.

- Efficient and Optically Directed Infrared Radiation
- PCB Can Be Comfortably Hand-held During Reflow
- IR Enhanced Dual 100 Watt Quartz Halogen Sources
- Upper Emitter Can Be Removed for Larger PCB Work
- Surface Tempered Glass Work Surface Resists Scratching
- Can Also Be Used on PCBs With Copper Ground Layer
- Hands-Free Foot Control for Each of the Two Emitters
- Programmable Automatic Cycling for Repetitive "Profile"
- Variable IR Emitter Intensity from 10% to 100%
- Power Transformers are Off for Energy-Star Compliance



SPECTRAL TRANSMISSION OF COLD MIRROR FILTERS



PCB TEMPERATURE vs. TIME FOR 2-LAYER FR4, 1oz CU, LOWER EMITTER ONLY

Time (sec)	Power (%)	Temp (°C)	Time (sec)	Power (%)	Temp (°C)	Time (sec)	Power (%)	Temp (°C)
0	25%	25	0	50%	25	0	75%	25
1	25%	26	1	50%	34	1	75%	30
2	25%	28	2	50%	47	2	75%	55
3	25%	29	3	50%	58	3	75%	85
4	25%	31	4	50%	69	4	75%	116
5	25%	33	5	50%	76	5	75%	131
6	25%	35	6	50%	81	6	75%	146
7	25%	36	7	50%	87	7	75%	160
8	25%	38	8	50%	92	8	75%	171
9	25%	40	9	50%	99	9	75%	183
10	25%	42	10	50%	111	10	75%	192
15	25%	47	15	50%	133	15	75%	225
20	25%	51	20	50%	147	20	75%	252
30	25%	57	30	50%	166	30	75%	285
40	25%	60	40	50%	178	40	75%	Damage
50	25%	63	50	50%	185	50	75%	Damage
60	25%	64	60	50%	190	60	75%	Damage

MECHANICAL / DIMENSIONAL CHARACTERISTICS

Characteristic	Definition	Measurement	Units
Overall Package Dimensions	Length x Depth x Height	11.5 (292) x 12 (305) x 6.3 (160)	in (mm)
Glass Work Surface Size	Without Upper Emitter	11.25 (286) L x 10.25 (260) D	in (mm)
Maximum PCB Size	Using Upper Emitter	8 (203) Depth x 20 (500) Length	in (mm)
Overall Package Weight	Without Shipping Container	16.85 (7.72)	lbs (kg)
Input Power Requirements	None	115-125 or 220-230 (specify)	VAC 50/60 Hz
Maximum Power Usage	Both IR Emitters @ 100%	212	Watts



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