

AOYUE[®]

INT853A Pro

(Centigrade / Fahrenheit switchable)

Pre Heating System

INSTRUCTION MANUAL

Thank you for purchasing Aoyue INT853A Pre Heating System.
It is important to read the manual before using the equipment.
Please keep manual in accessible place for future reference.

**ESD
SAFE**

This manual is designed to familiarize and instruct the operator with the proper usage and maintenance of the equipment. The "Care and Safety Precautions" section explains the hazards of using any type of soldering or reworking device. Please read carefully and observe the guidelines in order to maximize usage and minimize the risk of injury or accidents .

TABLE OF CONTENTS

Product Description and Features	3
Specifications /Package Inclusions	4
Safety Precautions	5
Control Panel Guide	6
Operating Guidelines	7-11
Basic Troubleshooting Guide	12

PRODUCT DESCRIPTION & FEATURES

The INT853A IR-Preheating System is a reworking equipment that uses infrared (IR) heating technology with a versatile board holder. It is designed for reworking double-sided, diverse technology printed circuit boards (PCB) which utilizes traditional or lead free solder.

The system is equipped with a high powered IR-heating elements, digital display with knob type controls and easy switching between centigrade and Fahrenheit scale. Its unique and innovative design with CPU control offers precision, safety, and ease of use to meet all reworking requirements.

Features:

- Microprocessor-controlled equipment.
- Digital display of actual and set temperature. Knob type controls for precision and ease of use.
- Temperature scale switchable between Centigrade and Fahrenheit.
- Versatile Integrated board holder.
- Advance grip type board holder with multi pivot and angled grip.
- Suitable for lead-free and standard processes
- Widely used for reworking BGAs, micro BGAs, QFPs, PLCCs, SOICs, small SMD, and other circuit board components.
- Easy-to-adjust pre-heat temperatures with digital display.
- Electrostatic discharge (ESD) safe equipment.
- Compatible for use with either hot air or IR top heating systems.

SPECIFICATION

MAIN STATION	
Power Input :	available in 110V / 220V
Station Dimensions:	190(w) x 155(h) x 265(d) mm
Weight:	2 Kg
Power Consumption:	500W
Temperature Range:	80 °C - 450 °C
Heating Element:	Quartz Heater

Specifications are subject to change without prior notice.

PACKAGE INCLUSIONS

1 unit 853A Main Station

1 pc. Power Cord

1 pc. Instruction Manual

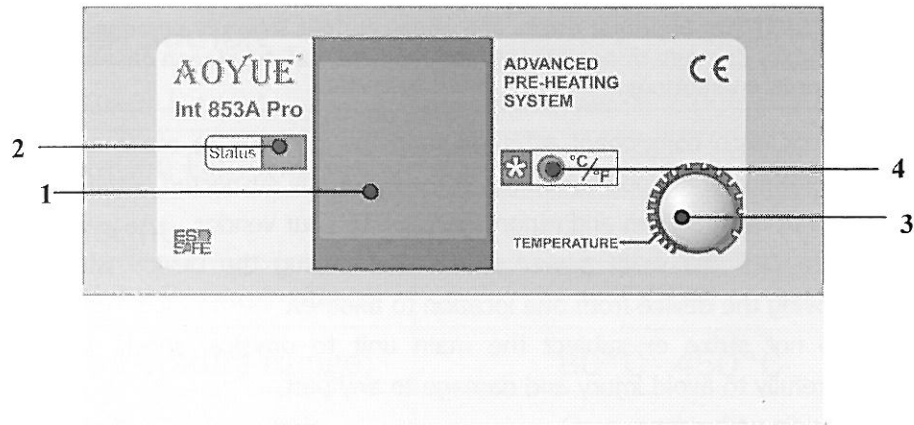
SAFETY PRECAUTIONS



CAUTION: Improper usage can cause serious injury to personnel and/or damage to equipment. For your own safety, please observe the ff. precautions.

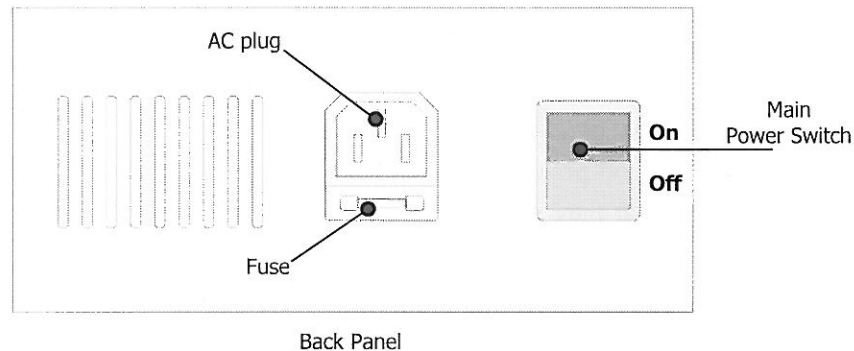
- Check each component after opening the package to make sure everything is in good condition. If there are any suspected damage, do not use the item and report the issue to your vendor.
- Turn OFF the main power switch and unplug the device when moving the device from one location to another.
- Do not strike or subject the main unit to physical shock. Use carefully to avoid injury and damage to any part.
- Handle with care.
 - Never drop or sharply jolt the unit.
 - Contains delicate parts that may break if the unit is dropped.
- Make sure the equipment is always grounded. Always connect power to a grounded receptacle.
- Temperature may reach as high as 380°C when switched ON.
 - Do not use the device near flammable gases, paper and other flammable materials.
 - Do not touch heated parts, which can cause severe burns.
 - Do not touch metallic parts near the tip.
- Disconnect the plug from the power source if the unit will not be used for a long period.
 - Turn off power during breaks, if possible.
- Use only genuine replacement parts.
 - Turn off power and let the unit cool before replacing parts.
- The unit may produce a small amount of smoke and unusual odor during initial usage. This is normal and should not yield any negative result when reworking.
- Soldering process produces smoke — use on well ventilated place.
- Do not alter the unit, specifically the internal circuitry, in any manner.

CONTROL PANEL GUIDE



LEGEND:

- 1 — Temperature Display
- 2 — Heater Indicator
- 3 — Temperature Adjustment Knob
- 4 — Temperature Scale Button



OPERATING GUIDELINES

IMPORTANT REMINDERS:

1. Make sure the equipment is placed on a flat stable surface.
2. Ensure all terminal connections are properly secured.

IMPORTANT: Please refer to the **CONTROL PANEL GUIDE** page for buttons and display panel directory.

A. INITIAL PROCEDURES

1. Make sure all switches are deactivated.
2. Attach power cord to the AC plug power cord.
3. Plug the device to the main power source.
4. To turn the unit ON. Toggle the main power switch to ON position

B. OPERATION

1. Follow initial procedures, "**A. INITIAL PROCEDURES**".
2. The display would show the current set temperature then after a moment it would display the actual temperature of the heating element.
3. To set the desired temperature turn the temperature adjustment knob "3". The display will show the temperature being set and once the temperature has been set the display would switch to showing the actual temperature.
4. Switch from Fahrenheit or Celsius display by pressing the temperature scale button.
5. The heater indicator "2" will remain lit while the temperature is heating up, as the temperature reaches the set temperature the heater indicator will start to blink indicating the heater has reached the set temperature and is currently regulating the heater to maintain the set temperature.
6. Reworking may start once the set temperature has been reached and the heater indicator starts blinking.
7. After reworking switch main power switch to off.

Manufacturer:

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