Plus Upgrade Kit for existing IR550A units

Upgrade your IR550A for more power, more control and take the benefit of the latest IRSoft functions and features!

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Who is recommended to install the *plus* Upgrade Kit?

This Upgrade Kit is addressed to ERSA IR550A users with following present system conditions (all other systems don’t require the upgrade):

**Firmware version:**
- IR550A firmware ≤ v1.74

**System serial number:**
- IR550A units in 230V version with SN ≤ 698
- IR550A units in 115V version with SN ≤ 220

How to check the installed firmware version:

Switch off the IR550A unit, press keep it pressed while switching on the unit again. The firmware version is displayed at the left system display for a short moment.
Plus Upgrade Kit key advantages:

- Improves the system performance dramatically.
- Extends the process parameters.
- Makes the system fit for even difficult lead-free processes.
- Improves the user interface and the process documentation.
- Excellent price-performance ratio!
- Brings the system to the state of the art.
- Gives the system the capability for automatic future firmware updates.
- Improves the traceability of rework processes
Get the latest IRSoft / firmware features: Overview

What’s new in IRSoft v4.9.x / firmware v2.23 compared to IRSoft v2.x?

- **Extended parameter settings with graphical real-time preview:**
  Modern slider controls, automatic preheating, full True Closed Loop gradient control.

- **Extended Energy Level settings:**
  Use of the full bottom heater power with Energy level 0 – 15 (metal grid cover required).

- **Totally new GUI for user friendly use of the extended functions:**
  Software tabs and flexible arrangements of the windows.

- **Live video from RPC (reflow process camera, option) fully implemented in IRSoft.**
  No external software required anymore.

- **Profile database with folder structure:**
  Better organization and overview.

- **User administration with three user levels:**
  No unattended use possible.

- **Automatic re-entering of a profile with a hot board:**
  More throughput.

- **Limit functions for the temperature channels.**
  More process flexibility and safety.

- **Compatibility with latest Windows versions**
  Window 7, Windows 8.1, Windows 10 (32 and 64 bits)
Get the latest IRSoft / firmware features: Overview

What’s new in IRSoft v4.9.x / firmware v2.23 compared to IRSoft v2.x?

- **TC input adjustment possible (calibration).**
  More accuracy.

- **Enhanced analysis of the process recordings:**
  Even offline review at other computers possible (using IRSoft)

- **APR function (Automatic Process Repetition):**
  Easier high volume repair.

- **Detection of forgotten or faulty TC placement:**
  More safety against user mistakes.

- **Heater power display and recording of the control variable:**
  Improved process analysis and optimization

- **Bottom heater standby function including status display and OFF switch.**
  Quicker response from process to process.

- **Improved heater control:**
  More stability with heavy mass boards.

- **Profile documentation:**
  Picture, comment and process instructions attachable with every single profile for a safe reproduction of even rare or difficult processes.

- **Tracking function:**
  Enter your board tracking ID to be saved with the process recording for perfect traceability
More energy: Double bottom heater power available!

**IR550A:**
- Energy level 0 – 10: 0 – 50 % bottom heater power available
- Ceran glass plate installed by standard

**IR550A plus:**
- Energy level 0 – 15: 0 – 100 % bottom heater power available
- Metal grid installed by standard
**IR550A plus Upgrade Kit**

Extremely extended parameter settings: Perfect for the lead-free process!

Old **IR550A** parameter settings and setup dialogue (IRSoft 2.x):

![Graph showing parameter settings for IR550A](image)

New **IR550A plus** parameter settings and setup dialogue (IRSoft 4.9.x):

![Graph showing parameter settings for IR550A plus](image)
Improved GUI: Totally new recording view with optimized user interface

**Old recording view IRSoft v2.x**
- All-in-one view
- No Controls window
- Parameter settings via profile table only
- No integrated video support

**New recording view IRSoft v4.9.x**
+ System Controls window (left)
+ Live heater power monitoring (left)
+ Live video window (RPC image)
+ Parameters window (bottom)
+ Improved recording window (main view)
New profile library including comment, picture and document for each profile

**IRSoft v4.9.x:**

The new profile library allows the arrangement of profiles in folders and subfolder.

A comment, a picture and a document (work instruction) can be attached with each profile.

Profiles can be allocated to a Standard User.
Content of the IR 550A plus Upgrade Kit

The complete Upgrade Kit consists of the following parts:

1. Bottom heater metal grid
2. AccuTC thermocouple
3. Programming table sticker
4. Control card with new firmware (latest version 2.x)
5. DVD with latest IRSoft
IR550A plus Upgrade Kit

Choose the right Upgrade Kit for either for your RS232 or for an USB unit:

1. **Order-No. 0IR550AUP01:**
   
   For IR550A systems with **RS232 interface only**!
   
   → bis SN 533 (230-V-Version) / SN 175 (115-V-Version)

2. **Order-No. 0IR550AUP02:**
   
   For IR550A systems with **USB interface only**!
   
   → ab SN 534 (230-V-Version) / SN 176 (115-V-Version)

**Note:**

RS232 systems **CANNOT** be upgraded to an USB interface!