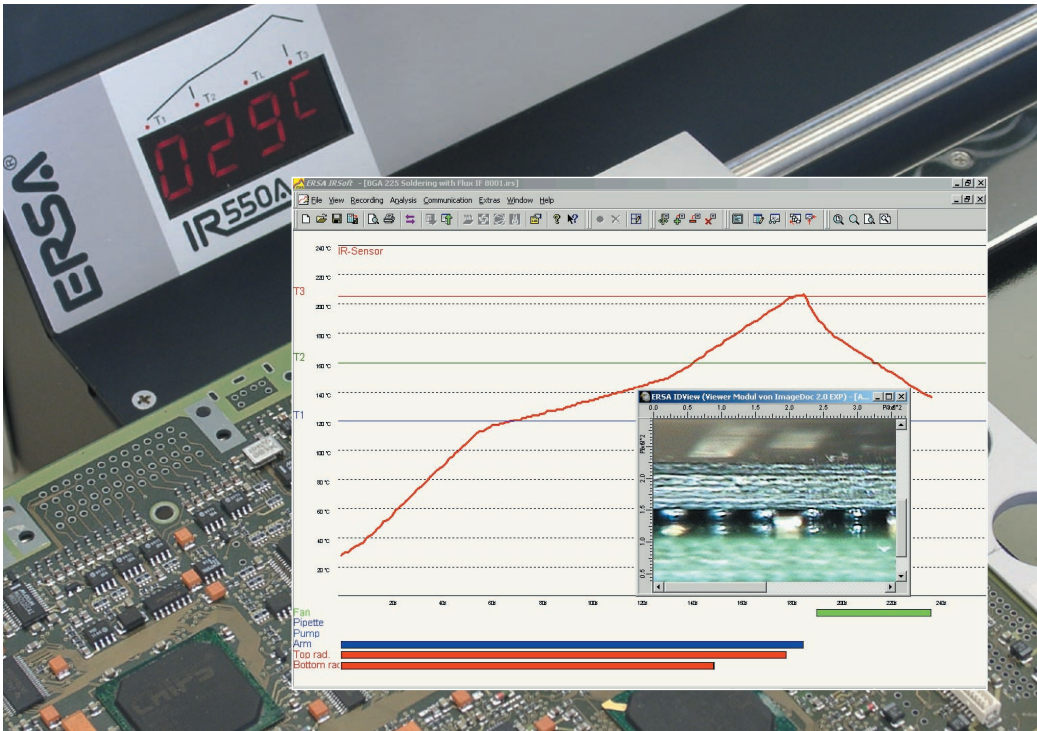


ERSA IRSoft: Unparalleled Process Documentation for Rework



Online process recording of a soldering process with IRSoft and the IR 550 A Rework System



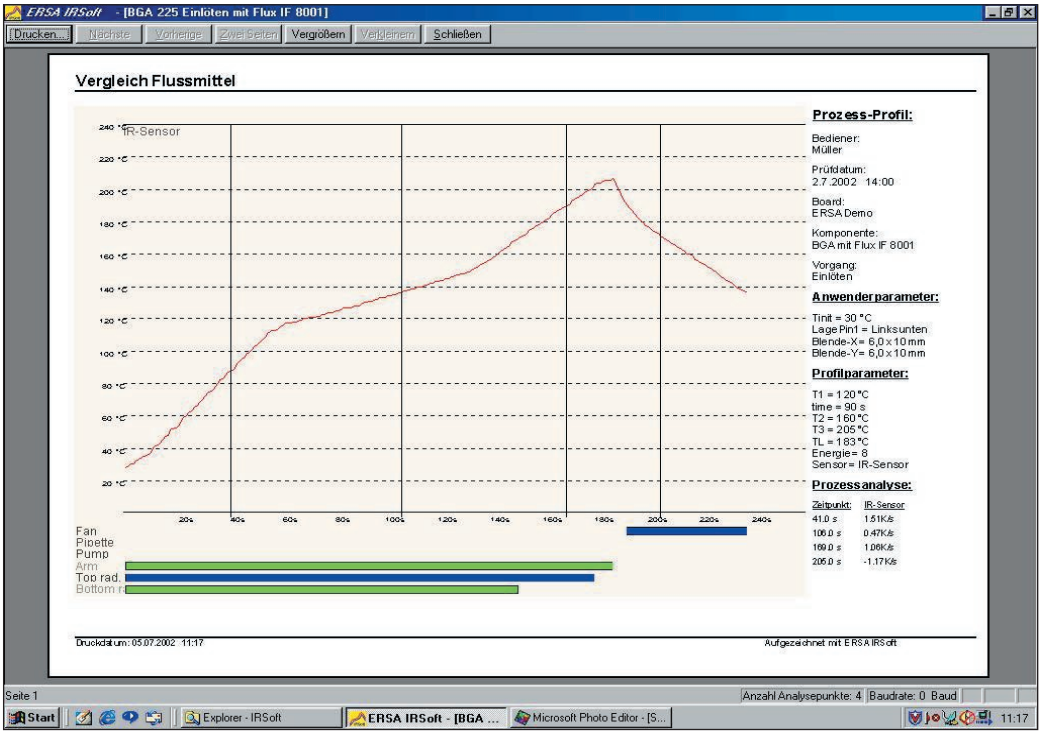
With ERSa IRSoft, the complete rework soldering process can be completely documented for the first time! The IRSoft perfectly complements the IR 550 A Rework System's technical features. IRSoft marks a milestone in quality assurance - the basis for the unparalleled reproducibility of rework soldering operations.

The user friendly software package allows for easy handling of all process parameters during a rework process. All system process data of a given profile are recorded and stored together with the actual temperature curve. A variety of design options allows for quick adaptation of IRSoft to the user's specific requirements.

An online Wizard guides the operator to the user mask, where application-related information can be entered in IRSoft. Pre-selected soldering and de-soldering profiles are available in the profile table for the process control. These profiles can be downloaded from the software to the IR 550 A. Parameter sets are uploaded from the IR 550 A or from an existing file and saved for future use. Both the downloading and uploading are supported by a Wizard, which smoothly guides the user through the individual steps.

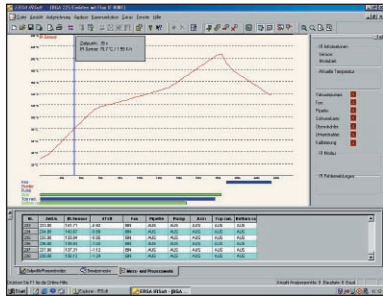
ERSa IRSoft allows for password-controlled access to the IR 550 rework system. Operating status of the unit and error messages are displayed in the status window.

Automatic report generation with IRSoft - all process data neatly arranged and available at a single glance!



The IRS calibration function as well as many other system settings of the IR 550 A can be conveniently changed using IRSoft. All data of the soldering process, the pre-selected profile, the actual time-temperature curves and all operating states are saved in a single file. The documented process data are outputted as a detailed report in the form of a clearly arranged printout.

The visual process documentation (i.e. AVI movie file) can occur in parallel by using ERSa IDView. IRSoft provides an analysis function for the subsequent evaluation of the recorded process data, e.g. automatic ramp and cooling rate analysis. In addition, the export function makes available all the data processing options of Microsoft Excel™.



Continuous display of the operating status of the IR 550 A in the IRSoft status window

Process-Profile:

Operator: J.N.

Date: 2.7.2002 14:00

Board: ERSa Demo

Component: BGA mit Flux IF 8001

Process: Soldering

Users parameter:

Tint = 30 °C

Orientation Pin1 = left up

Shutter-X = 6,0 x 10 mm

Shutter-Y = 6,0 x 10 mm

Profile Parameters:

T1 = 120 °C

time = 90 s

T2 = 160 °C

T3 = 205 °C

TL = 183 °C

Energy = 0

Sensor = IR-Sensor

Process analysis:

Current time: IR-Sensor

29.0 s 1.57K/s

95.0 s 0.49K/s

155.0 s 1.20K/s

203.0 s -1.12K/s

IR Information:

Version: 1.65

Unit time: 00:02:28

Actual Temperature

55.4 °C

Vacuum pump:

Fan: ☒

Pipette: ☒

Arm: ☒

Top radiator: ☒

Bottom radiator: ☒

Calibration: ☒

IR Mode

Soldering

IR Error messages:

No Errors

Inspection

- ERSASCOPE
- ERSA 4D SCOPE
- ERSACAM
- ERSA SpydiCam

Rework

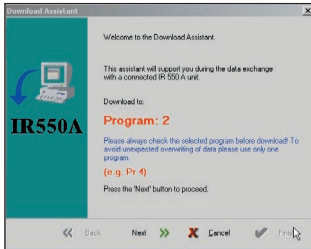
- ERSA IR 550 A
- ERSA PL 550 A
- ERSA RPC 550 A
- ERSA IR 500 A

Software

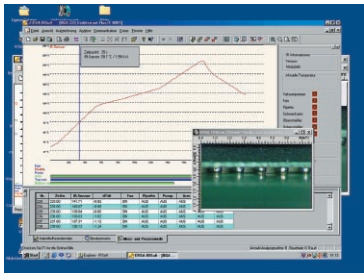
- ERSA ImageDoc EXP
- ERSA ID View
- ERSA IR Soft

20/21

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IR Soft - convenient Wizards for the easiest possible handling



Simultaneous visualization of the reflow process and temperature profile with IRSoft and IDView

- Online IR 550 A status display
- Graphs of temperature profiles and operating states
- Freely programmable process parameters with uploading and downloading functions
- Complete process documentation and analysis tools
- Remote control of important system functions

Ordering information IRSoft is included with delivery of the IR 550 A