

Soldering Manager
Soldering Robot Management Software vol.1

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• This catalog reflect the products as of November 2019. The product appearance and specifications can change without notice.
• Be sure to carefully read the operating instructions included with the product before use.

Inquiry No.C00472
Printed in Japan 19121000 (G-BASIS)

Soldering robot Management software

Soldering Manager



Start the IoT for soldering from the job site.

It is very important for the managers at the installation site to grasp and record the situation for the equipment at all times. However, it is difficult to keep monitoring the equipment in operation and the investigation for the cause after the problem occurs are not easy.

Soldering Manager monitors the status of the soldering robot and automatically collects and stores data. Saved operation data can be used in various ways. It is the IoT for soldering robot could start from the job site and advanced knowledge is not required.

CORRECTING DATA

- During maintenance: Alarm history of robot or heater / correction history of the iron tip position.
- In operation: Board code / LOT No. / heater temperature / result for the feeder send / shot count for the iron tip.
- Management data: Number of the iron tip shots / number of cycles / solder feed amount for 1-cycle / total of solder feed amount / the hours of operation for the robot.

Features



Connect

Connect PC, camera, and thermometer to the robot.

Digitize

The data in operation or during maintenance are automatically saved.

Visualize

Make into the graph the temperature during the soldering.

Capture

Save numerical data / video.
* Numerical data can be saved in CSV file format and video can be saved in MPEG-4 (H.264) format.

Archive

Utilize historical data.

Standard configuration



■ Soldering Manager Software



■ Camera connection kit for Soldering Manager
Includes USB camera (2 cameras), camera mounting bracket, USB hub and various cables.(QR code reader is not included)



Function

Program No. (Label pointing to the top right of the interface)

Board code (LOT No.) (Label pointing to the top left of the interface)

Video saving format (all windows / camera only) (Label pointing to the 'Full screen recording' button)

Various management data (Label pointing to the summary statistics on the right side of the interface)

Step list (Label pointing to the table of soldering steps)

Camera image (Label pointing to the live video feed of the soldering process)

Robot status (Label pointing to the 'Solder Condition' table)

Execution data / Temperature graph (Label pointing to the temperature graph on the right)

| No | Type | X [mm] | Y [mm] | Z [mm] | R [deg.] | Cond No | Heater Temperature | | Solder Amount |
|----|-----------------|---------|---------|--------|----------|---------|--------------------|-----|---------------|
| | | | | | | | Max | Min | |
| 1 | Point Soldering | 179.250 | 144.220 | 45.285 | 0.000 | 1 | 350 | 349 | 20.1 |
| 2 | Evasion point | 179.250 | 144.220 | 0.000 | 0.000 | 0 | | | |
| 3 | Point Soldering | 153.485 | 278.480 | 70.400 | 0.000 | 10 | 349 | 347 | 28.0 |
| 4 | Point Soldering | 153.435 | 281.145 | 70.400 | 0.000 | 11 | 347 | 346 | 24.0 |
| 5 | Point Soldering | 153.510 | 283.610 | 70.400 | 0.000 | 11 | 346 | 345 | 24.0 |
| 6 | Point Soldering | 153.510 | 286.225 | 70.400 | 0.000 | 11 | | | |
| 7 | Point Soldering | 153.360 | 288.730 | 70.400 | 0.000 | 11 | | | |

| Solder Condition No 11 | |
|------------------------|------|
| Main Feeder | 24.0 |
| Sub Feeder | 0.0 |
| Main Heater Set Temp. | 345 |
| Main Heater Get Temp. | 350 |
| Sensar Temp. | 0 |
| Main Heater Offset | -4 |
| Sub Heater Set Temp. | 0 |
| Sub Heater Get Temp. | 0 |
| Sub Heater Offset | 0 |

Requirement for system configuration

| | |
|--------|------------------------|
| OS | Windows10 64bit |
| CPU | Intel Core™ i5 or more |
| Memory | 8GB or more |

| | |
|------------------------|--|
| Resolution | WXGA (1366 × 768) |
| Free disk space on HDD | 3GB or more |
| Interface | USB 3.1 Gen1 Type-A x 2 (USB-HUB and USB-camera) |

• Software for the robot (UNIX-DF I GF series) must be the latest (4.0 or higher) version.
• Depending on the performance of the connected PC, it may not be possible to convert the recordings of camera image into compressed video or saving properly.