

Wave Checker
UI-351A
UI-351A6

User's Guide

Ui user
interface **sys**

What is Wave Checker ?

It will previously check operating information of soldering device so that it helps to prevent problems that actually happen in real process and maximizes production.

Depending on your needs, it provides a variety of functions such as conversion, analysis, simulation and comparison of data.



System Requirements

Items	Minimum Requirements	Recommended Requirements
CPU	Above Pentium4 1.2GHz	Above Pentium4 2.0GHz
RAM	Above 1GB	Above 2GB
Video	1024*768 16Bit	Same as the left
Transmission Mode	USB / RS232	Same as the left
OS	Window 95, 2000, XP 7, 8, 10	Same as the left

USB charge (Charging current : 200mA~250mA)



○ Charging (Red)



○ Charging complete (Green)

Installing the RTTPS program



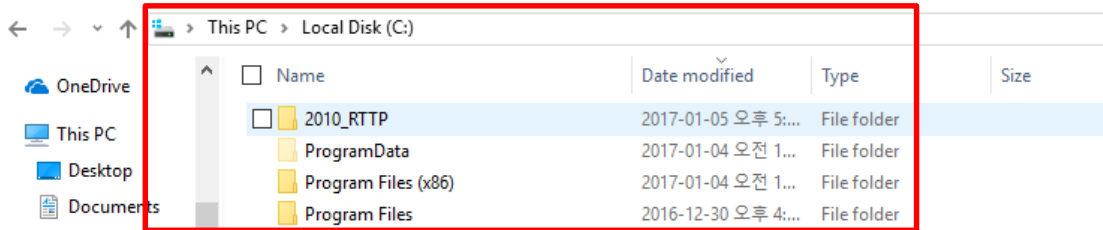
The installation file is provided as USB and the above figure shows the USB internal file structure
After connecting USB to PC, go into USB folder and double click **run** icon

```
F:\2010_RTTP\2010_RTTP\sound\mc.wav -> C:\2010_RTTP\sound\mc.wav
F:\2010_RTTP\2010_RTTP\sound\md.wav -> C:\2010_RTTP\sound\md.wav
F:\2010_RTTP\2010_RTTP\ui-Controller\animation.ico -> C:\2010_RTTP\ui-Controller\animation.ico
F:\2010_RTTP\2010_RTTP\ui-Controller\Config.ini -> C:\2010_RTTP\ui-Controller\Config.ini
F:\2010_RTTP\2010_RTTP\ui-Controller\UI_Controller.exe -> C:\2010_RTTP\ui-Controller\UI_Controller.exe
487 File(s) copied
```

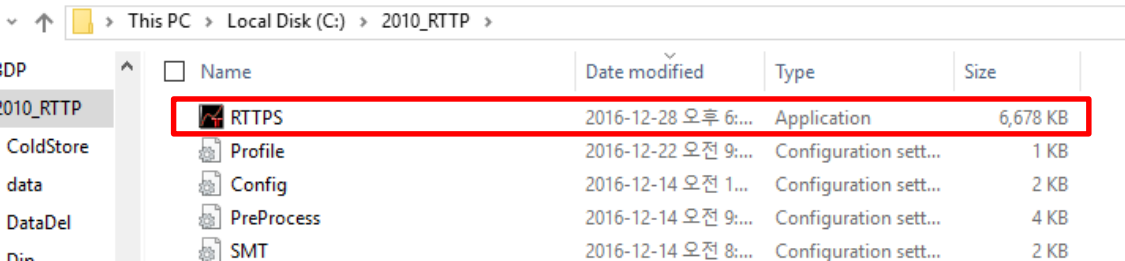
```
-----
-                               -
-  Installation completed      -
-                               -
-----
Press any key to continue . . .
```

Double-click the icon for the **run**, installation are in progress, as indicated above
When installation is complete, the message “**Installation completed**” is displayed

Installing the RTTPS program



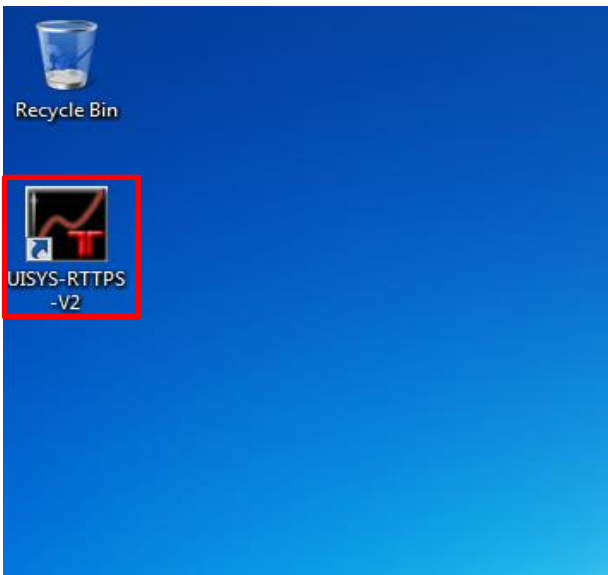
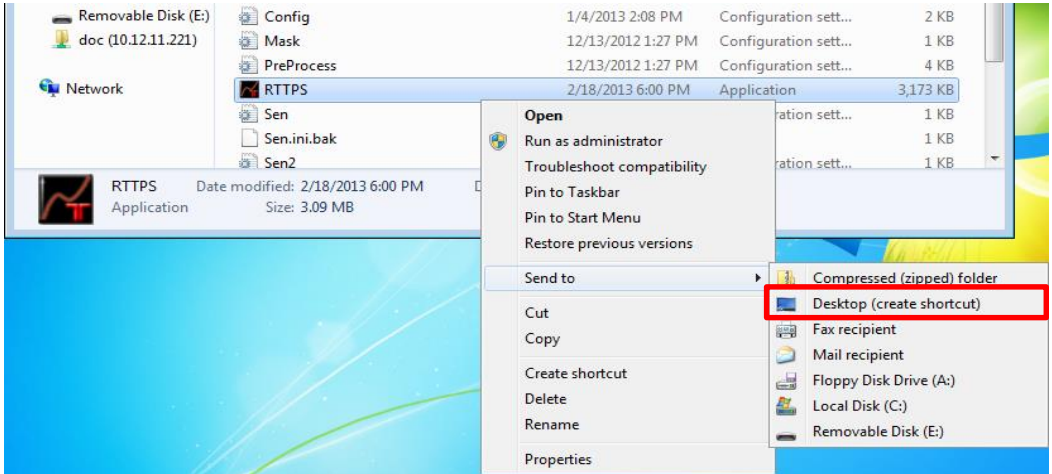
When installation is complete, a folder called 2010_RTTPS is created
On drive C
(Route = C:\W2010_RTTP)



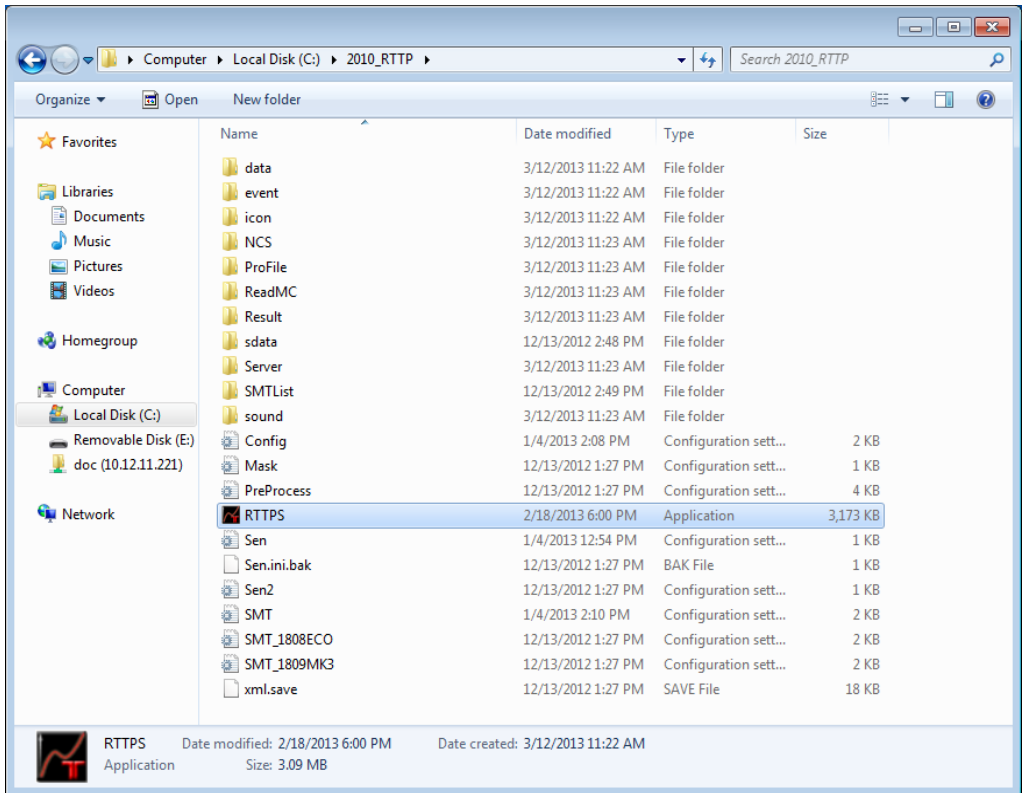
Double-click the executable file in the 2010_RTTP folder to run the program

Create the shortcut icon of 'RTTPS.exe'

- Create the shortcut of "RTTPS.exe" in the "C:\W2010_RTTP" folder on the desktop



'2010_RTTP' Folder



– File Organization –

data : Measurement Data Folder

Doc : Manual Folder

etc : Other Driver Folder

event : Event (Folder where errors are made)

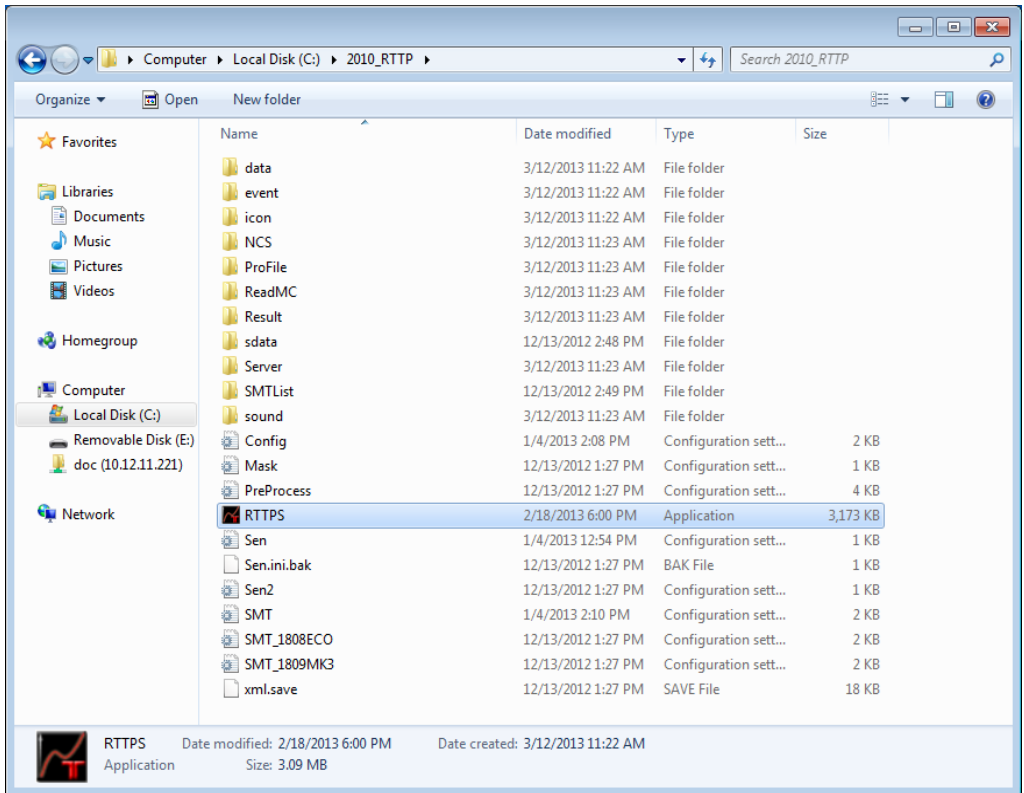
icon : RTTPS-Related icon Folder

NCS : Connection folder with OVEN information and profile data

Profile : PROFILE Measurement Data Save Folder

ReadMC : Program to load the information about HELLER device

'2010_RTTP' Folder



– File Organization –

Result : Real time Surveillance Activation Program

sdata : Folder to store the information related to the main temperature detector

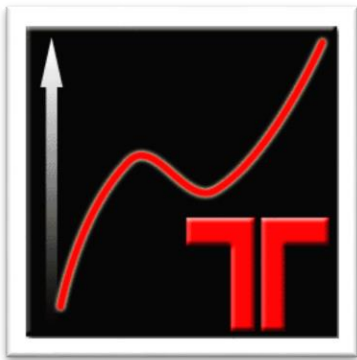
Server : Program to control the network

SMTList : Folder to save the data regarding the system

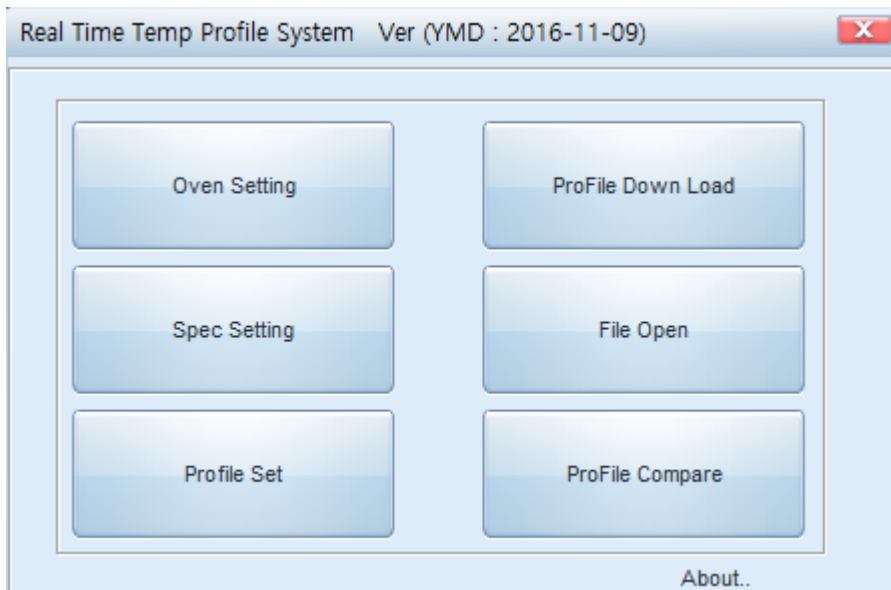
sound : Sounds in relation to RTTPS program

Program Execution

- Double Click the RTTPS icon on the desktop or the taskbar

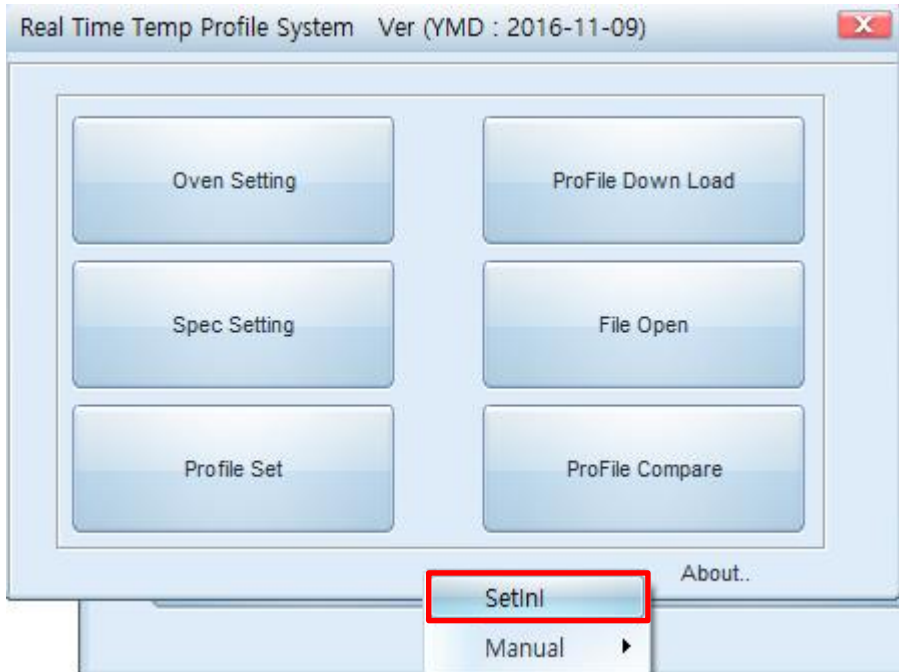


Initial Screen of Program



SetINI

- Setting the History of Basic Equipment and RTPPS Default Value
(Communication Part, Profile Communication Port, etc.)



- Right-click on a blank space on the main screen and the SetINI menu appears

SetINI (Basic)

○ Basic & Profile Model _ Basic

The screenshot shows the 'SetINI' dialog box with the 'Basic & Profile Model' tab selected. The 'Basic' sub-tab is also selected. The 'Company Name' is 'UISYS'. 'Machine Type' is 'WAVE' and 'Lane Kind' is 'Front'. Under 'Profile & ComPort', 'Profile' is 'UI-351A6' and 'COM' is 'COM9'. The 'Spec' section shows 'Kind' as '21' with a list of options: 1: SMT Basic, 2: SMT Basic + and UI-0210KA, 3: SMT 6 Div Spec - olny Profile, 21: Wave Basic, 51: Wave Use 301x - olny Profile. At the bottom are buttons for 'Open Device', 'Save & Close', and 'Close'. Inside the dialog, there are also 'ProFile Com Set' and 'ProFile 316 Time Set' buttons.

– Basic & Profile Model –

– Basic (Default status input menu of Reflow) –

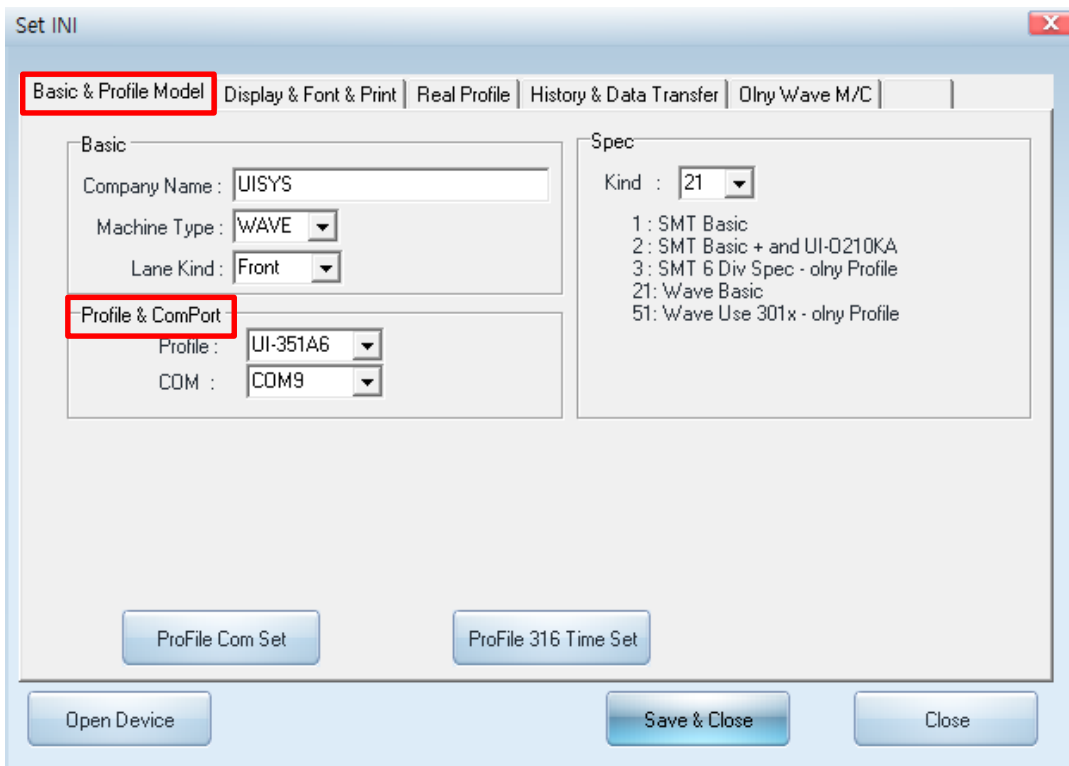
Company Name : Enter the company name

Machine Type : Reflow equipment, Soldering equipment selection options
(Set to “Wave”)

Lane Kind : Single equipment, Dual equipment selection options
(Set to “Front”)

SetINI

○ Basic & Profile Model – Profile & Comport



Set INI

Basic & Profile Model | Display & Font & Print | Real Profile | History & Data Transfer | Only Wave M/C

Basic

Company Name : UISYS

Machine Type : WAVE

Lane Kind : Front

Profile & ComPort

Profile : UI-351A6

COM : COM9

Spec

Kind : 21

- 1 : SMT Basic
- 2 : SMT Basic + and UI-0210KA
- 3 : SMT 6 Div Spec - only Profile
- 21 : Wave Basic
- 51 : Wave Use 301x - only Profile

ProFile Com Set

ProFile 316 Time Set

Open Device

Save & Close

Close

– Basic & Profile Model –

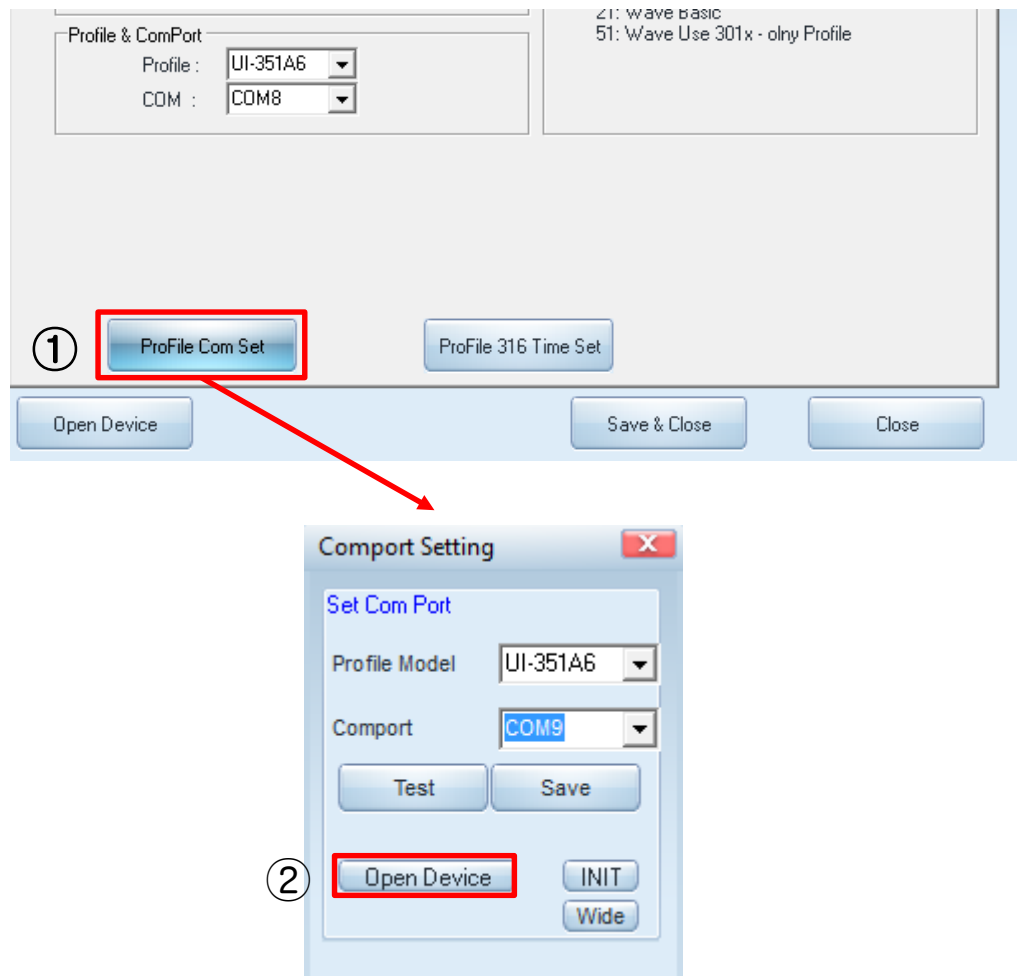
– Profile & ComPort (Profiler communication menu) –

Profile : Profiler settings to use for measurements
(Set to UI-351A or UI – 351A6)

COM : Profiler communication port settings

SetINI

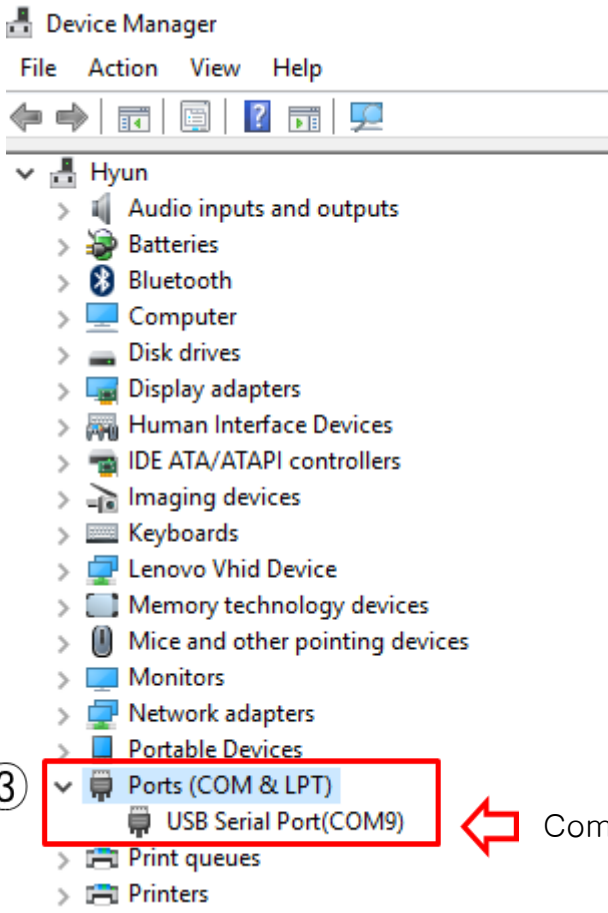
○ How to find a communication port



- ① Click the Profile Com Set button
- ② Click the Open Device

SetINI

- How to find a communication port

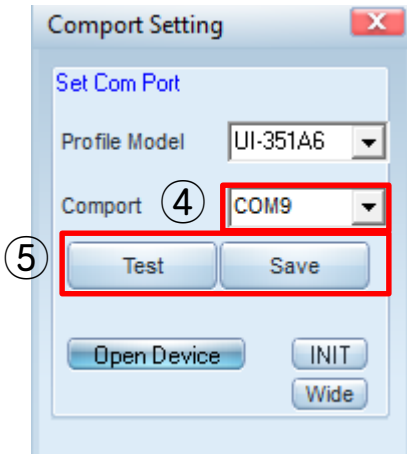


Communication Port(COM9)

- ③ Confirm the Ports(COM & LPT),
USB Serial Port in the Device Manager Menu

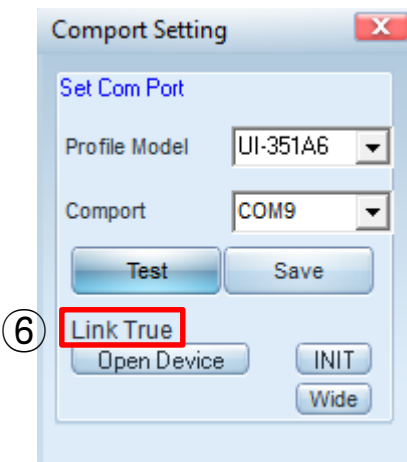
SetINI

- How to find a communication port



- ④ Sets the Communication Port identified by Device Manager

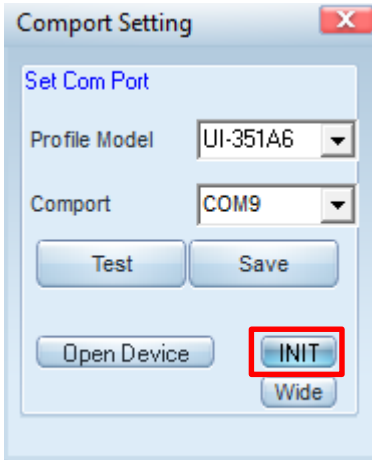
- ⑤ Click the Save button and then the Test button



- ⑥ If the Communication is successful, the message “Link True” is displayed

SetINI

- How to find a communication port



- INIT : Factory reset button

SetINI

○ Display & Font & Print – Display

Set INI

Basic & Profile Model | **Display & Font & Print** | Real Profile | History & Data Transfer | Only Wave M/C

Display

Screen Size W 1024 H 768

Font : MS Sans Serif **Font**

Other UI-351x

View Chart :

Select Sensor (Analysis & View Channel)

Position : Right

Wave Checker D E F Display ON

Display Sequence DEF

D : Bottom PreHeat

E : Top Pre Heat

F : Bottom PreHeat

Wave Dip Time : ON

Avg and Tolerate Use

Range (%) 5

Language

Language : Korean

Print

Print Option : PR2 100%

View [Front & Rear] : NONE ☐ Print Size:Small

Print : Graph Axis X : 50

PwI Option : PwI

Draft, Review, Approve

Print Wide

Style : Style 1

Print : Graph Axis X : 50

Open Device **Save & Close** **Close**

– Display & Font & Print –

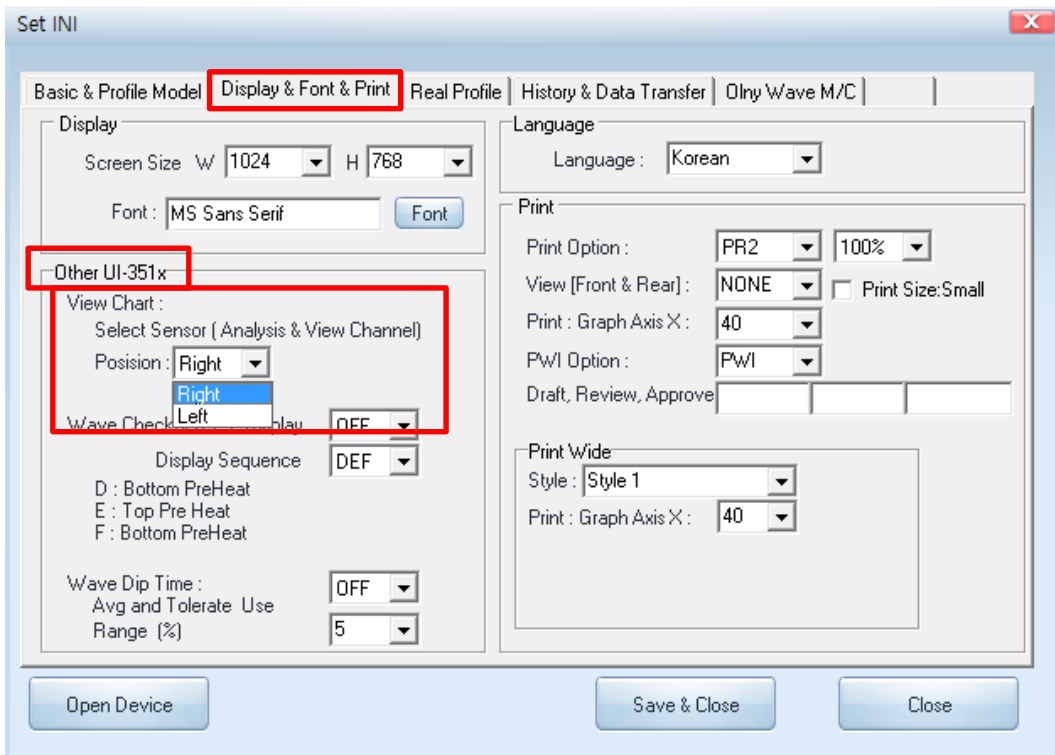
– Display (Display Menu) –

Screen Size : Setting W(width) and H(height) of profile view

Font : Font option

SetINI

○ Display & Font & Print – Other UI-351x – View Chart



– Display & Font & Print –

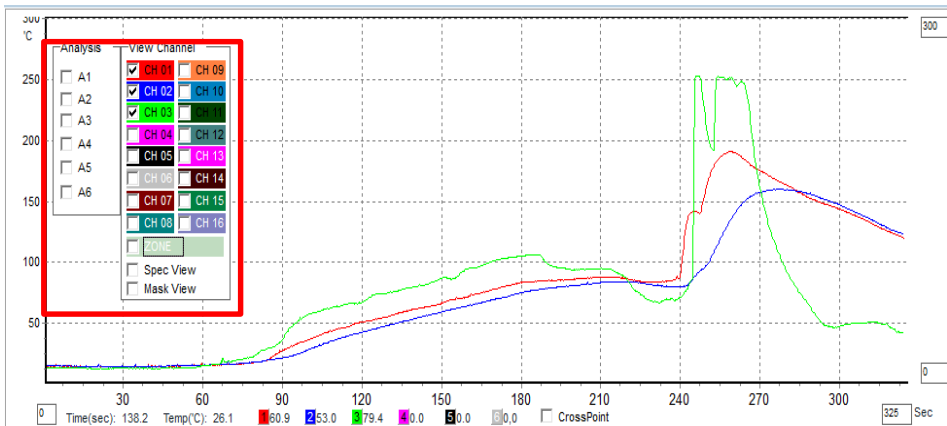
– Other UI-351x (Other version menu) –

Posison : Position setting of the Analysis and View Channel

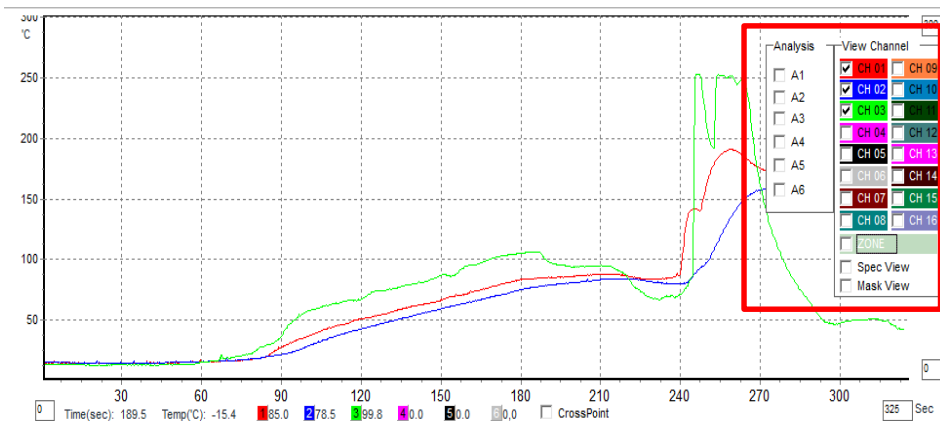
SetINI

○ Display & Font & Print – Other UI-351x – View Chart

Left



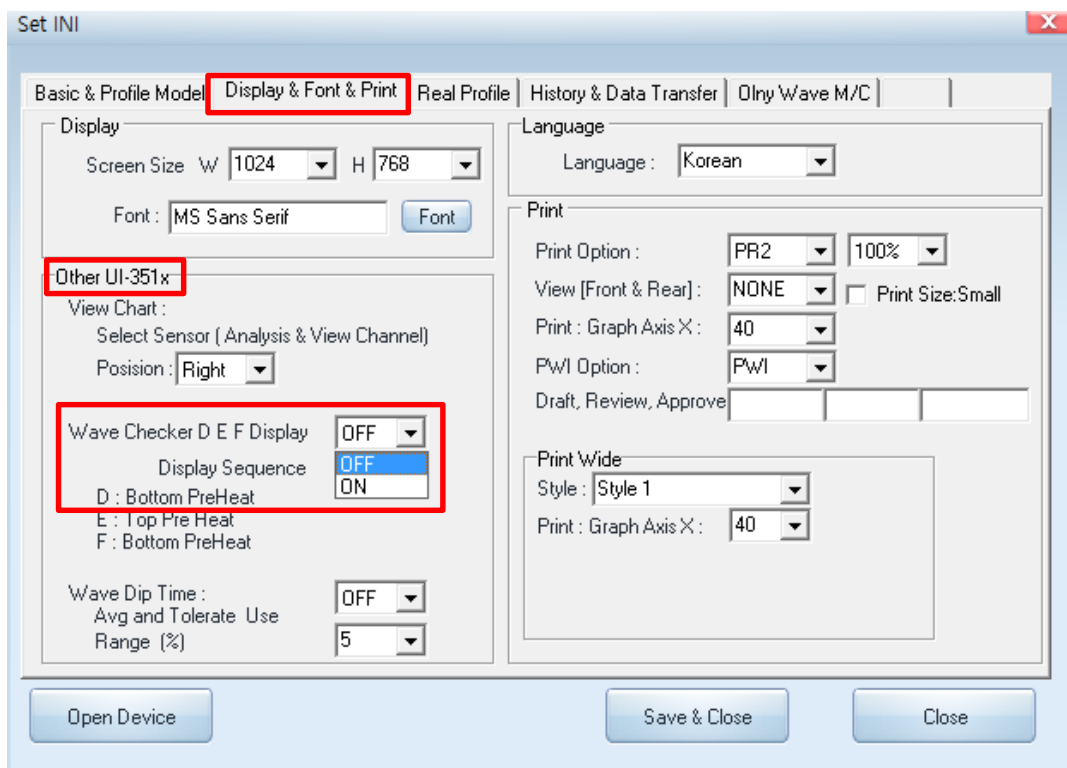
Right



Sensor selection menu Left/Right setting

SetINI

○ Display & Font & Print – Other UI-351x – Wave Checker D E F Display



– Display & Font & Print –

– Wave Checker D E F Display (D,E,F channel display option) –

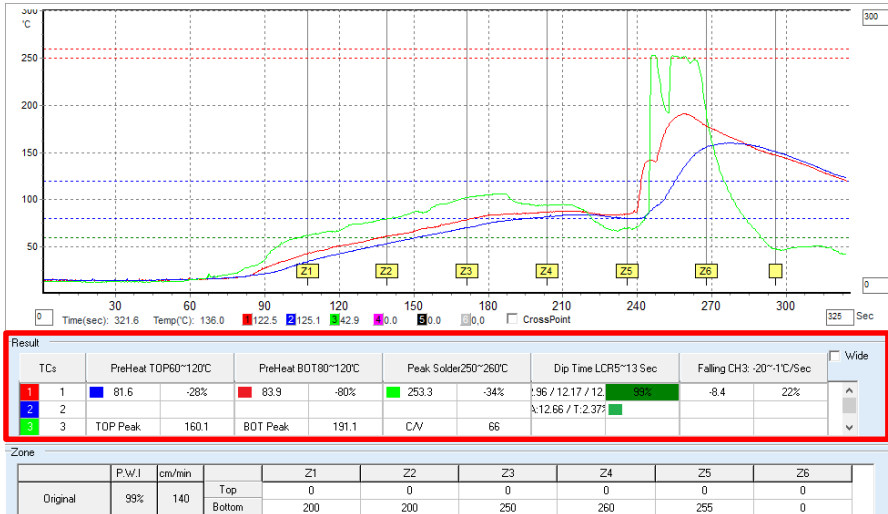
ON : D,E,F channel ON on profile view

OFF : D,E,F channel OFF on profile view

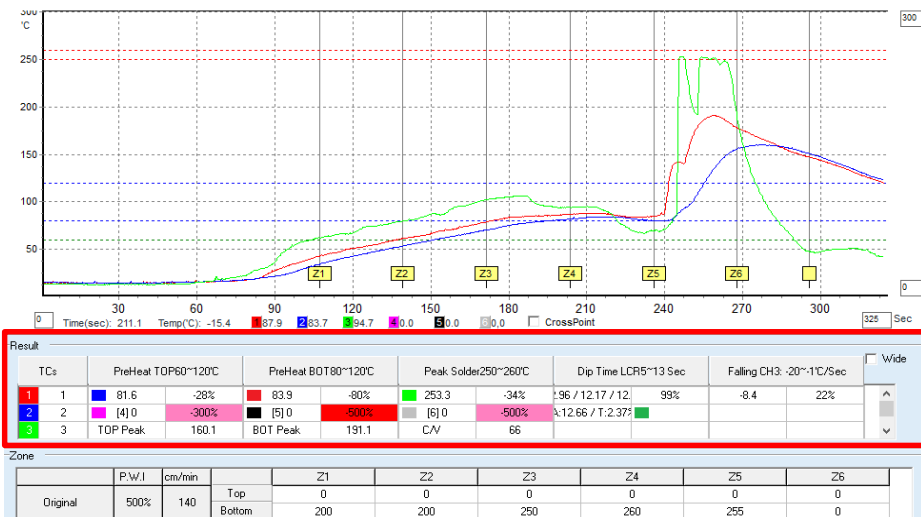
SetINI

○ Display & Font & Print – Other UI-351x – Wave Checker D E F Display

OFF



ON



Turn on and off the D,E,F channels in addition to the A,B, and C Channels you are using

SetINI

○ Display & Font & Print – Other UI-351x – Wave Checker D E F Display

Set INI

Basic & Profile Model | **Display & Font & Print** | Real Profile | History & Data Transfer | Only Wave M/C

Display

Screen Size W 1024 H 768

Font : MS Sans Serif Font

Other UI-351x

View Chart :
Select Sensor (Analysis & View Channel)
Position : Right

Wave Checker D E F Display ON

Display Sequence DEF

D : Bottom PreHeat
E : Top Pre Heat
F : Bottom PreHeat

Wave Dip Time : OFF
Avg and Tolerate Use
Range (%) 5

Language

Language : Korean

Print

Print Option : PR2 100%

View [Front & Rear] : NONE ☐ Print Size:Small

Print : Graph Axis X : 40

P/WI Option : PWI

Draft, Review, Approve

Print Wide

Style : Style 1

Print : Graph Axis X : 40

Open Device Save & Close Close

– Display & Font & Print –

– Wave Checker D E F Display (D,E,F channel display option) –

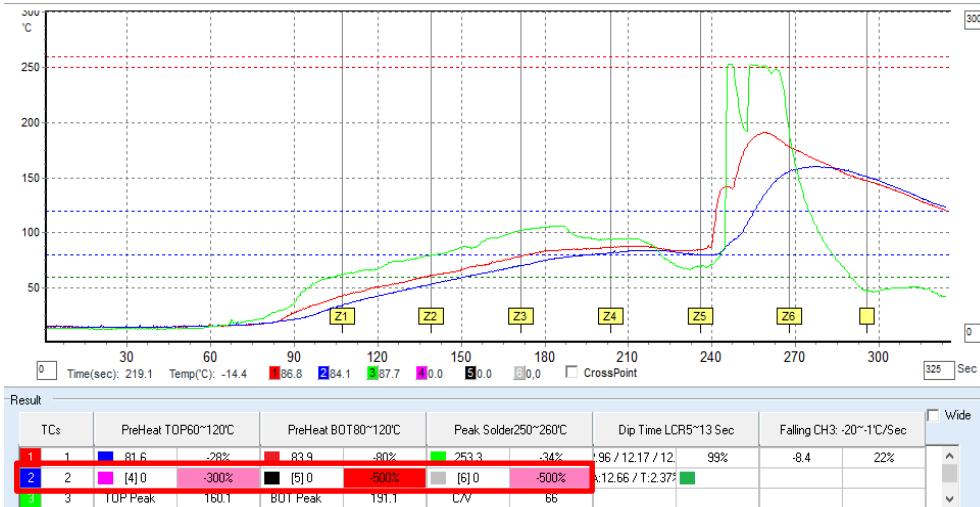
DEF : Display in order of D,E,F channels
(E,F channel Top/D channel Bottom)

EDF : Display in order of E,D,F channels
(E,F channel Bottom/D channel Top)

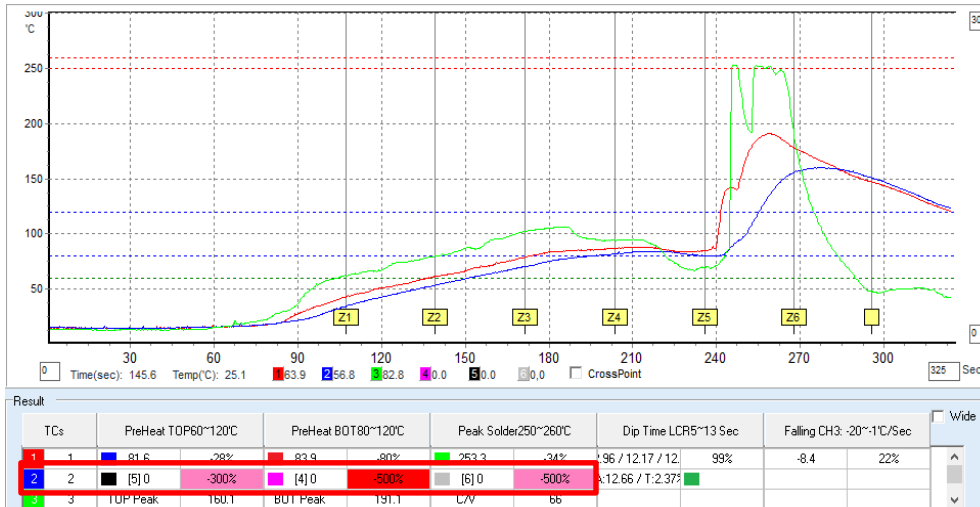
SetINI

○ Display & Font & Print – Other UI-351x – Wave Checker D E F Display

DEF



EDF



Set DEF, EDF channel order when D,E,F channel function is ON

SetINI

○ Display & Font & Print – Other UI-351x – Wave Dip Time

Set INI

Basic & Profile Model **Display & Font & Print** Real Profile History & Data Transfer Only Wave M/C

Display

Screen Size W 1024 H 768

Font : MS Sans Serif Font

Other UI-351x

View Chart :
Select Sensor (Analysis & View Channel)
Position : Right

Wave Checker D E F Display ON

Display Sequence EDF

D : Bottom PreHeat
E : Top Pre Heat
F : Bottom PreHeat

Wave Dip Time : OFF

Avg and Tolerance Use

Range (%) 10

Language

Language : Korean

Print

Print Option : PR2 100%

View [Front & Rear] : NONE ☐ Print Size:Small

Print : Graph Axis X : 40

PwI Option : PwI

Draft, Review, Approve

Print Wide

Style : Style 1

Print : Graph Axis X : 40

Open Device Save & Close Close

– Display & Font & Print –

- Wave Dip Time (Average value of Wave Dip Time,
Whether Torrance value is displayed or not) –

ON : Average value display of Wave Dip Time in Profile view ON
(※ To activate the Wave Dip Time average function, you must set the Dip Time option to ALL in the Spec setting)

OFF : Average value display of Wave Dip Time in Profile view OFF

Range(%) : Refers to the range of the longest Wave Dip Time in the measurement data and the average value of the Wave Dip Time
if the set range is exceeded, a warning message(red) is displayed

SetINI

○ Display & Font & Print – Other UI-351x – Wave Dip Time

Result												☒ Wide
TCs		PreHeat TOP60~120°C		PreHeat BOT80~120°C		Peak Solder250~260°C		Dip Time LCR5~13 Sec		Falling CH3: -20~-1°C/Sec		
1	1	81.6	-28%	83.9	-80%	253.3	-34%	12.96 / 12.17 / 12.84	99%	-8.4	22%	
2	2							A:12.66 / T:2.37%				
3	3	TOP Peak	160.1	BOT Peak	191.1	C/V	66					
4	4	Left	0.88 / 12.08	Center	1.55 / 10.62	Right	1.72 / 11.12	RPM1:	RPM2:			
5	5	Left 0.6	0.68 / 11.19	Left 0.9	0.64 / 11.01	Left 1.2	0.6 / 10.12	Left 1.5	0.65 / 9.21	Left 1.8	0.47 / 8.58	
6	6	Right 0.6	1.72 / 11.12	Right 0.9	1.4 / 10.78	Right 1.2	16.08 / 0	Right 1.5	1.44 / 14.1	Right 1.8	9.8 / 0	

Dip Time LCR5~13 Sec	
12.96 / 12.17 / 12.84	99%
A:12.66 / T:2.37%	
RPM1:	RPM2:
Left 1.5	0.65 / 9.21
Right 1.5	1.44 / 14.1

Setting Range IN(Green)

Measurement = Wave dip time 12.96 / 12.17 / 12.84

Average(A) = 12.66

Torrance(T) = 2.37% (%Range of 12.66 and 12.96)
 $\times 12.66 = 100\%$

SetINI

○ Display & Font & Print – Language

Set INI

Basic & Profile Model | **Display & Font & Print** | Real Profile | History & Data Transfer | Only Wave M/C

Display

Screen Size W 1024 H 768

Font: MS Sans Serif **Font**

Other UI-351x

View Chart:

Select Sensor (Analysis & View Channel)

Position: Right

Wave Checker D E F Display OFF

Display Sequence EDF

D : Bottom PreHeat
E : Top Pre Heat
F : Bottom PreHeat

Wave Dip Time: ON

Avg and Tolerate Use Range (%) 10

Language

Language: Korean

Chinese
English
Japanese
Korean
Taiwanese

Print

Print Option: 100%

View (Front & Rear) ☐ Print Size: Small

Print : Graph Axis X: 40

PwI Option: PwI

Draft, Review, Approve

Print Wide

Style: Style 1

Print : Graph Axis X: 40

Buttons: Open Device, Save & Close, Close

– Language (5 kinds of language support) –

English
Korean
Chinese
Taiwanese
Japanese

SetINI

○ Display & Font & Print – Print

Set INI

Basic & Profile Mode | **Display & Font & Print** | Real Profile | History & Data Transfer | Only Wave M/C

Display

Screen Size W 1024 H 768

Font : MS Sans Serif

Other UI-351x

View Chart :
Select Sensor (Analysis & View Channel)
Position : Right

Wave Checker D E F Display OFF

Display Sequence EDF

D : Bottom PreHeat
E : Top Pre Heat
F : Bottom PreHeat

Wave Dip Time : ON

Avg and Tolerate Use 10

Language

Language : Korean

Print

Print Option : PR2 100%

View [Front & Rear] : NONE ☐ Print Size:Small

Print : Graph Axis X : 40

PWI Option : PWI

Draft, Review, Approve

Print Wide

Style : Style 1

Print : Graph Axis X : 40

Open Device Save & Close Close

– Display & Font & Print –

– Print (Print Settings) –

Print Option : Use to PR2 (Wave set to PR2)

View[Front & Rear] : Front / Rear display when printout (Wave set to None)

Print : Graph X :

Print : Graph X : Parameter of temperature on graph

10 units ex) 10, 20, 30, ...

50 units ex) 50, 100, 150, ...

PWI Option : Only reflow option (Wave set to PWI)

Draft. Review.Approve : Enter the responsible verifier name

SetINI

○ Display & Font & Print – Print

Set INI

Basic & Profile Model | **Display & Font & Print** | Real Profile | History & Data Transfer | Only Wave M/C

Display

Screen Size W 1024 H 768

Font: MS Sans Serif Font

Other UI-351x

View Chart :
Select Sensor (Analysis & View Channel)
Position: Right

Wave Checker D E F Display OFF
Display Sequence EDF
D : Bottom PreHeat
E : Top Pre Heat
F : Bottom PreHeat

Wave Dip Time : ON
Avg and Tolerate Use Range (%) 10

Language

Language : Korean

Print

Print Option : PR2 100%
View [Front & Rear] : NONE ☐ Print Size:Small
Print : Graph Axis X : 40
PwI Option : PwI
Draft, Review, Approve

Print Wide

Style : Style 1
Print : Graph Axis X : 40

Open Device Save & Close Close

– Display & Font & Print –

– Print (Print Style Settings) –

Style : Only Style 1

Print : Graph Axis X : Parameter of temperature on graph
10 units ex) 10, 20, 30, ...
50 units ex) 50, 100, 150, ...

SetINI

○ Real Profile – RTTPS & RTTMS Start

Set INI

Basic & Profile Model | Display & Font & Print | **Real Profile** | History & Data Transfer | Only Wave M/C

RTTPS & RTTMS Start

ComPort : **COM9**

Auto Start : **OFF**

PopUpMSG : **OFF**

Module

Auto RunTime : **1000** mSec

Use UI-501x : **1**

Interval Time : **2000** mSec

Sim Time : **5000** mSec

Use UI-501x

1 : RTTPS

2 : RTTMS & SL-RTTMS

7 : Demo

H/W Install

Read MC Path : **OFF**

Direction : **LR** DirRL Zone : **13**

Demo : **OFF** 0 Cm/Min

C/V Copy : **OFF** Rear CV = Front CV

View Special
ex) if 2PC 2Lane Rear = 'ON'

H/W install Front -> S/W View Rear : **OFF**

Open Device Save & Close Close

– RTTPS & RTTMS Start (Main controller option menu [RTTPS Mode])–

ComPort : Setting the communication port connected between the main controller and the reflow PC (**Disable in Wave**)

Auto Start : Set whether to start data transfer between main controller and reflow PC
(* Disable 'Viewstate' menu and 'RealProFile' menu when set to OFF)
(**Disable in Wave, set to "OFF"**)

SetINI

○ Real Profile – Module

Set INI

Basic & Profile Model | Display & Font & Print | **Real Profile** | History & Data Transfer | Only Wave M/C

Module

RTTPS & RTTMS Start

ComPort : COM9

Auto Start : OFF

PopUpMSG : OFF

Auto RunTime : 1000 mSec

Use UI-501x : 7

Interval Time : 2000 mSec

Sim Time : 5000 mSec

Use UI-501x

1 : RTTPS

2 : RTTMS & SL-RTTMS

7 : Demo

H/W Install

Read MC Path : OFF

Direction : LR DirRL Zone : 13

Demo : OFF 0 Cm/Min

C/V Copy : OFF Rear CV = Front CV

View Special

ex) if 2PC 2Lane Rear = 'ON'

H/W install Front -> S/W View Rear : OFF

Open Device Save & Close Close

– Real Profile–

– Module (Real-time main controller communication settings menu [RTTPS Mode]) –

Auto Run Time : When communicating with the real-time module, if there is no signal of the module, the interval of time to retry of communication
(Disable in Wave)

Ex) 1000msec : Transmits the signal every second

Use UI-501x : Set the type of real-time module (UI-501x). (Wave is set to **NO.0**)

- 0 : Not using real-time (Set to **No.0** when using Wave Only)
- 1 : RTTPS (Normal UI-501)
- 2 : RTTPS & SL-RTTMS (Real-Time version of HELLER equipment)
- 7 : Demo version

SetINI

○ Real Profile – Module

Set INI

Basic & Profile Model | Display & Font & Print | **Real Profile** | History & Data Transfer | Only Wave M/C

Module

RTTPS & RTTMS Start

ComPort : COM9

Auto Start : OFF

PopUpMSG : OFF

Auto RunTime : 1000 mSec

Use UI-501x : 7

Interval Time : 2000 mSec

Sim Time : 5000 mSec

Use UI-501x

1 : RTTPS

2 : RTTMS & SL-RTTMS

7 : Demo

H/W Install

Read MC Path : OFF

Direction : LR DirRL Zone : 13

Demo : OFF 0 Cm/Min

C/V Copy : OFF Rear CV = Front CV

View Special

ex) if 2PC 2Lane Rear = 'ON'

H/W install Front -> S/W View Rear : OFF

Open Device Save & Close Close

– Real Profile–

– Module (Real-time main controller communication settings menu [RTTPS Mode]) –

Interval Time : When real-time communication with the module, transmission signal interval (**Disable in Wave**)
[Ex) 1000msec : Transmitting a signal every] second

Sim Time : Interval between incoming signal from rear-time module (**Disable in Wave**)
the data is saved in the file C:\w2010_RTTPWS\data\Rx_2016-10-25.txt
after one day, the file Rx_2016-10-26.txt is created the data received from the real-time module is stored at the set time interval

SetINI

○ Real Profile – H/W Install

The screenshot shows the 'SetINI' dialog box with the 'Real Profile' tab selected. The 'H/W Install' section is highlighted with a red box. The 'Real Profile' tab is also highlighted with a red box.

SetINI

Basic & Profile Model | Display & Font & Print | **Real Profile** | History & Data Transfer | Only Wave M/C

RTTMS & RTTMS Start

ComPort : COM12
Auto Start : OFF
PopUpMSG : OFF

Module

Auto RunTime : 1000 mSec
Use UI-501x : 7
Interval Time : 1000 mSec
Sim Time : 5000 mSec

Use UI-501x
1 : RTTMS
2 : RTTMS & SL-RTTMS
7 : Demo

H/W Install

Read MC Path : OFF
Direction : LR DirRL Zone : 13
Demo : OFF 120 Cm/Min
C/V Copy : OFF Rear CV = Front CV

View Special
ex) if 2PC 2Lane Rear = 'ON'
H/W install Front -> S/W View Rear : OFF

Open Device Save & Close Close

– Real Profile–

– H/W Install ([RTTMS Mode]) –

Read_MC_Path : HELLER reflow machine option

Direction : The traveling direction setting of the equipment
(Left→Right : LR, Right→Left : RL)

DirRL : The total number of species reflow machine
(Cooling zone+ Heating zone)

Demo : Without conveyor sensor connected to the main program,
the virtual operating temperature sensor option.

C/V Copy : Show a conveyor sensor connected to the rear to
the front

H/W intall Front -> S/W View Rear : 2PC 2LINE is set to Front only in real-time,
but it is set when you want to see data of
specific PC in the filed as Rear

SetINI

○ History & Data Transfer – TCP/IP (Monitoring System)

The screenshot shows the 'SetINI' dialog box with the 'History & Data Transfer' tab selected. The 'TCP/IP (Monitoring System)' section is highlighted with a red box. It contains fields for 'Server IP' (127.0.0.1), 'Interval' (10 Sec), and 'Active' (OFF). The 'MES' section has 'Active' (ON), 'SM Active' (OFF), and 'Interval' (5 Min). The 'Gamma' section has 'Active' (OFF) and 'Interval' (5 Sec). The 'Non Stop Model Change' section has 'Port' (9770), 'Active' (OFF), 'Ver' (1.2.6), and 'MyName' (RTTP). At the bottom are 'Open Device', 'Save & Close', and 'Close' buttons.

Set INI

Basic & Profile Model | Display & Font & Print | Real Profile | **History & Data Transfer** | Only Wave M/C

TCP/IP (Monitoring System)

Server IP : 127.0.0.1

Interval : 10 Sec

Active : OFF

MES

Active : ON

SM Active : OFF

Interval : 5 Min

Gamma

Active : OFF

Interval : 5 Sec

Non Stop Model Change

Port : 9770

Active : OFF

Ver : 1.2.6

MyName : RTTP

Open Device Save & Close Close

– History & Data Transfer–

– TCP/IP (Menu related to using RTTPS server [RTTPS Mode]) –

Server IP : Enter the IP address of the PC to be used as the server

Interval : Setting the data transmission rate

Active : Decide whether to use TCP/IP

SetINI

○ History & Data Transfer – MES, Gamma

The screenshot shows the 'SetINI' dialog box with the 'History & Data Transfer' tab selected. The tab is highlighted with a red box. The dialog has several sections: 'TCP/IP (Monitoring System)' with fields for Server IP (10.12.11.46), Interval (5 Sec), and Active (OFF); 'MES' with fields for Active (OFF), SM Active (ON), and Interval (1 Min); 'Gamma' with fields for Active (OFF) and Interval (60 Sec); and 'Non Stop Model Change' with fields for Port (9770), Active (OFF), Ver (1.2.6), and MyName (RTTP). The 'MES' and 'Gamma' sections are also highlighted with red boxes. At the bottom, there are buttons for 'Open Device', 'Save & Close', and 'Close'.

– History & Data Transfer–

– MES (SamSung MES System only menu [RTTPS Mode]) –

(Disable in Wave)

Active : Enable or disable the MES menu

Interval : Setting the baud rate

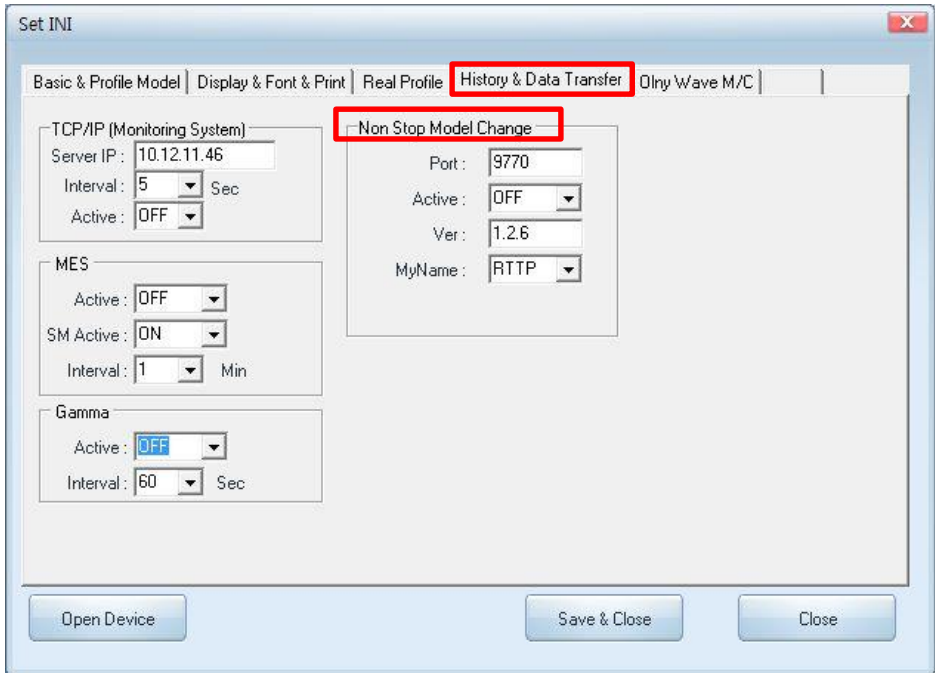
– Gamma (SamSung Gamma System only menu [RTTPS Mode]) –

Active : Enable or disable the Gamma menu

Interval : Setting the baud rate

SetINI

○ History & Data Transfer – Non Stop Model Change



– History & Data Transfer–

– Non Stop Model Change (Samsung System Only menu [RTTPS Mode]) –

(Disable in Wave)

Port : Enable or disable Gamma menu (Set Transfer Port)

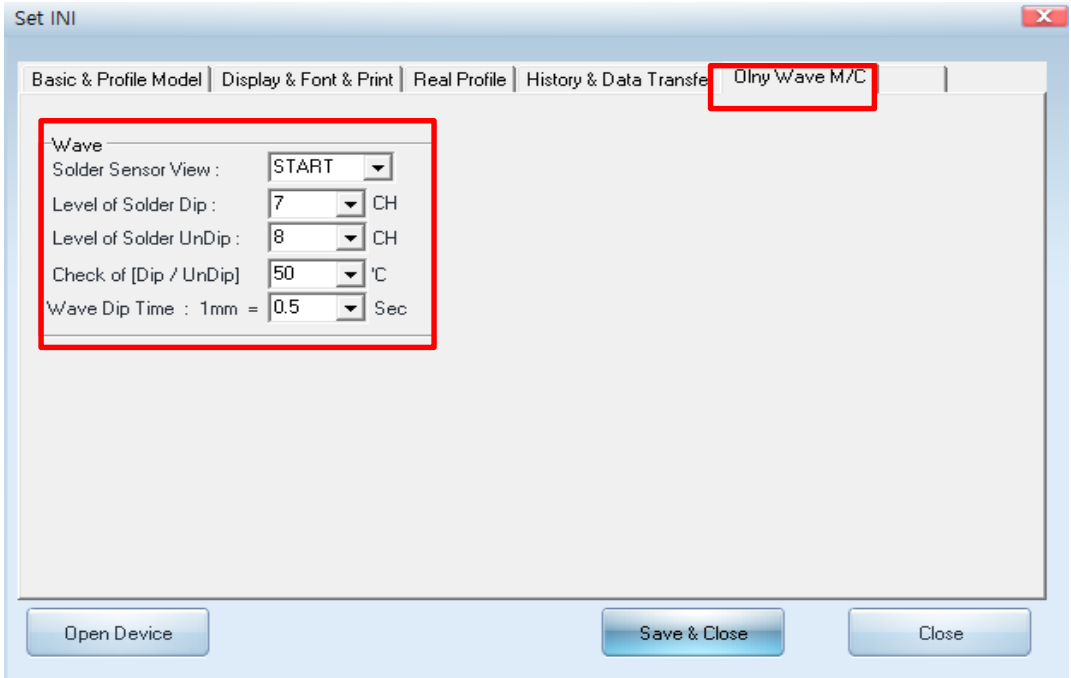
Active : Enable or disable the Non Stop Model Change menu

Ver : Version of model

MyName : Set to name

SetINI

○ Only Wave M/C – Wave



– Only Wave M/C–

– Wave (Only Wave–Realtime, Disable in Handy Wave [RTTPS Mode]) –

Solder Sensor View : Whether or not to display the solder sensor from the beginning, setting whether to display from the solder port

Level of Solder Dip : Bottom channel setting of the level of the solder sensors in real-time wave

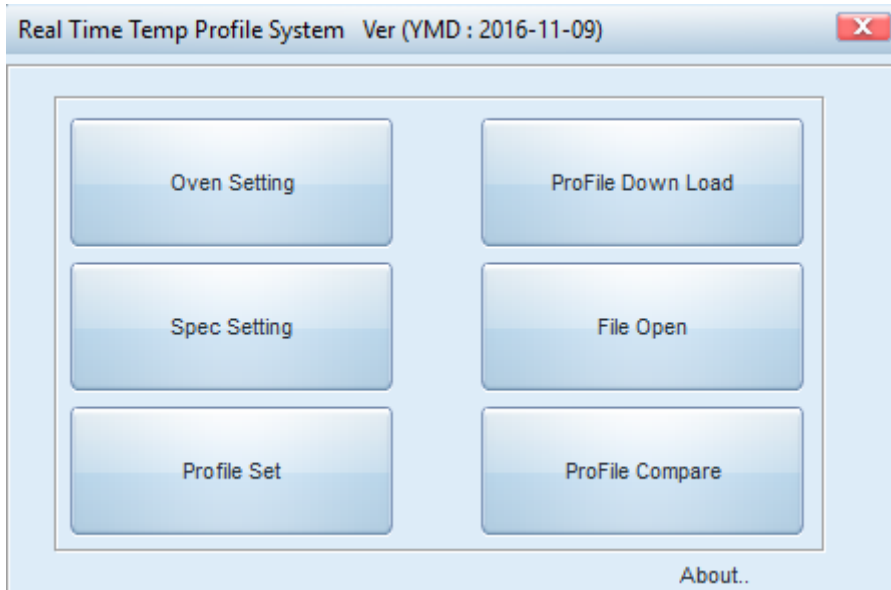
Level of Solder UnDip : Top channel setting of the level of the solder sensors in real-time wave

Check of (Dip/UnDip) : Set the temperature difference between the solder sensor top/ bottom the level in real-time wave

Wave Dip Time : 1mm : Set how much such of the distance sensor 1mm from the real-time waveform is changed dip time (However, the center value only to the calculation)

Program initial screen

○ Main Screen Menu Description(Ver : YMD : 2016-11-09)



– Explanation for Menu –

Oven Setting : Conditions of Wave Equipment and Setting of Real-time Module

Profile Down Load : Download measured data

Spec Setting Set good range of production model

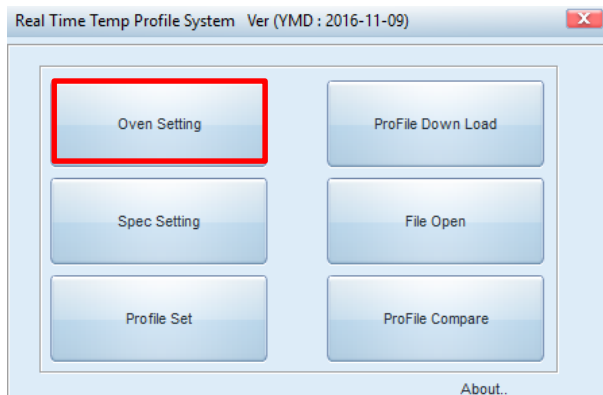
File Open : Load profile data that was saved when downloading

Profile Set : Enter basic information for the current profile

ProFile Compare : Different profile data can be compared

Oven Information

○ Oven Setting



Oven Setting

Detail Oven

Oven Name:

Line NO:

Product:

Number of Zones:

Nuber of cools:

Kind of Fan:

C/V: cm/min

O2 PPM:

ENGINEER:

Wave

Zone of Solder Port:

Use Solder Port:

Solder Port RPM1:

Solder port RPM2:

FanSpeed : %
Temp : °C
Length : mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp	230	195	165	165	170	200	265	
Bottom Temp	230	195	165	165	170	200	265	
Fan Speed	15	15	15	15	15	15	15	
Zone Length	2500	650	650	650	650	650	1200	

☐ Length Edit

Oven Information

○ Oven Setting – Detail Oven

Oven Setting
Detail Oven

Oven Name:
 Line NO:
 Product:

Number of Zones:
 Nuber of cools:
 Kind of Fan:
 C/V: cm/min

Wave
 Zone of Solder Port:
 Use Solder Port:
 Solder Port RPM1:
 Solder port RPM2:

O2 PPM:
 ENGINEER:

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp	230	195	165	165	170	200	265	
Bottom Temp	230	195	165	165	170	200	265	
Fan Speed	15	15	15	15	15	15	15	
Zone Length	2500	650	650	650	650	650	650	1200

☐ Length Edit

FanSpeed : %
 Temp : °C
 Length : mm

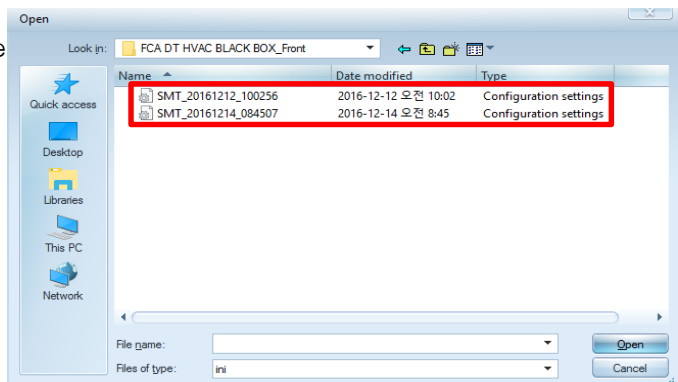
Oven Name : Name of Reflow Oven

Line NO : Line Number

Product : Product model Name
 (Ex. PCB_1.0.3)

Open :

You can load the saved
 Settings
 (As shown on the right)



Oven Information

○ Oven Setting – Detail Oven

Oven Setting

Detail Oven

Oven Name: UISYS

Line NO: No.1

Product: UI-351A6

Open

Number of Zones: 5

Nuber of cools: 1

Kind of Fan: Hz

C/V: 140 cm/min

O2 PPM: 859

ENGINEER:

Wave: 5

Zone of Solder Port: 5

Use Solder Port: 1ST+2ND

Solder Port RPM1: 0

Solder port RPM2: 0

Com Port Set

FanSpeed: %
Temp: 'C
Length: mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp		230	195	165	165	170	200	265
Bottom Temp		230	195	165	165	170	200	265
Fan Speed		15	15	15	15	15	15	15
Zone Length	2500	650	650	650	650	650	650	1200

Save As ☐ Length Edit **Save** **Close**

Number of Zone : Number of heating zone

Number of Cools : Number of cooling zone

Kind of Fan : Units of the heater fan speed

C/V : Type of fan speed(Hz, %, rpm. Setting to generally Hz)

O2 PPM : Oxygen concentration being managed

ENGINEER : Name of machine manager

Oven Information

○ Oven Setting – Detail Oven – Wave

Oven Setting

Detail Oven

Oven Name:

Line NO:

Product:

Number of Zones:

Nuber of cools:

Kind of Fan:

C/V: cm/min

Wave

Zone of Solder Port:

Use Solder Port:

Solder Port RPM1:

Solder port RPM2:

O2 PPM:

ENGINEER:

FanSpeed: %
Temp: 'C
Length: mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp	230	195	165	165	170	200	265	
Bottom Temp	230	195	165	165	170	200	265	
Fan Speed	15	15	15	15	15	15	15	
Zone Length	2500	650	650	650	650	650	1200	

☐ Length Edit

– Wave (Setting to Real-time wave) –

Zone of Solder Port : Zone location of solder port

Use Solder Port : Number of using solder port

Solder Port RPM1 : First solder port impeller RPM

Solder Port RPM2 : Second solder port impeller RPM

Oven Information

○ Oven Setting – Detail Oven – ProFile Com Set

Oven Setting

Detail Oven

Oven Name:

Line NO:

Product:

Open

Number of Zones:

Nuber of cools:

Kind of Fan:

C/V: cm/min

O2 PPM:

ENGINEER:

Wave

Zone of Solder Port:

Use Solder Port:

Solder Port RPM1:

Solder port RPM2:

Comport Setting

Set Com Port

Profile Model:

Comport:

Test Save

Open Device INIT Wide

Com Port Set

FanSpeed: %

Temp: 'C

Length: mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp		230	195	165	165	170	200	265
Bottom Temp		230	195	165	165	170	200	265
Fan Speed		15	15	15	15	15	15	15
Zone Length	2500	650	650	650	650	650	650	1200

Save As

Length Edit

Save Close

– Profile Com Set (Profile communication menu [14~16 page]) –

Profile Model : Profile setting to use for measurements (Set to UI-351A6 or UI-351A)

Comport : Set of ports that are connected to the Profiler

Test : Communication test with Comport and profiler

Save : Save profiler model and Comport

* Press Save button and Press Test button

* When a successful connection “Link True”

Open Device :Shortcut Opendevide (Comport for confirmation)

INIT: Profiler factory reset button

Oven Information

○ Oven Setting – Detail Oven – Edit Oven Length

Oven Setting

Detail Oven

Oven Name:

Line NO:

Product:

Number of Zones:

Nuber of cools:

Kind of Fan:

C/V: cm/min

O2 PPM:

ENGINEER:

Wave

Zone of Solder Port:

Use Solder Port:

Solder Port RPM1:

Solder port RPM2:

FanSpeed : %
Temp : 'C
Length : mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed		15	15	15	15	15	15	
Top Temp		230	195	165	165	170	200	265
Bottom Temp		230	195	165	165	170	200	265
Fan Speed		15	15	15	15	15	15	
Zone Length	2500	650	650	650	650	650	650	1200

☐ Length Edit

– Edit Oven Length (Edit reflow length in use) –

Fan Speed : Fan speed of top

Top Temp : Temperature of heater of top

Bottom Temp : Temperature of heater of bottom

Fan Speed : Fan speed of bottom

Zone Length : The length of the zone, the first IN value measures the distance from the photo sensor recognition area to the Z1 entry point depending on the change in the value, the measured value of the C/V speed may be affected

To modify the length “Length Edit” must be checked

Oven Information

○ Oven Setting – Detail Oven – Button Description (Open, Save As, Save, Close)

Oven Setting

Detail Oven

Oven Name: UISYS
 Line NO: No.1
 Product: UI-351A6

Number of Zones: 5
 Nuber of cools: 1
 Kind of Fan: Hz
 C/V: 140 cm/min

O2 PPM: 859
 ENGINEER:

Wave
 Zone of Solder Port: 5
 Use Solder Port: 1ST+2ND
 Solder Port RPM1: 0
 Solder port RPM2: 0

Com Port Set

FanSpeed : %
 Temp : °C
 Length : mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp	230	195	165	165	170	200	265	
Bottom Temp	230	195	165	165	170	200	265	
Fan Speed	15	15	15	15	15	15	15	
Zone Length	2500	650	650	650	650	650	1200	

Save As Length Edit Save Close

– Button Description (Open, Save As, Save, Close) –

Open : Pressing the “Open” button brings up the previously saved Wave Setting

Save As : Pressing the “Save As” button, the setting value displayed on the current screen is saved as file

Save : Pressing the “Save” button use the current setting on the screen

Close : **Close the current status screen** (If the imported contents are not correct, or if you click the ‘Close’ button without pressing the ‘Save’ or ‘ Save As’ button after modifying the information values go back to before editing)

Oven Information

○ Oven Setting – Detail Oven – Button Description (Save As, Save)

Oven Setting

Detail Oven

Oven Name:

Line NO:

Product:

Number of Zones:

Nuber of cools:

Kind of Fan:

C/V: cm/min

O2 PPM:

ENGINEER:

Wave

Zone of Solder Port:

Use Solder Port:

Solder Port RPM1:

Solder port RPM2:

FanSpeed: %

Temp: 'C

Length: mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp	230	195	165	165	170	200	265	
Bottom Temp	230	195	165	165	170	200	265	
Fan Speed	15	15	15	15	15	15	15	
Zone Length	2500	650	650	650	650	650	1200	

☐ Length Edit

Oven Setting → Save button

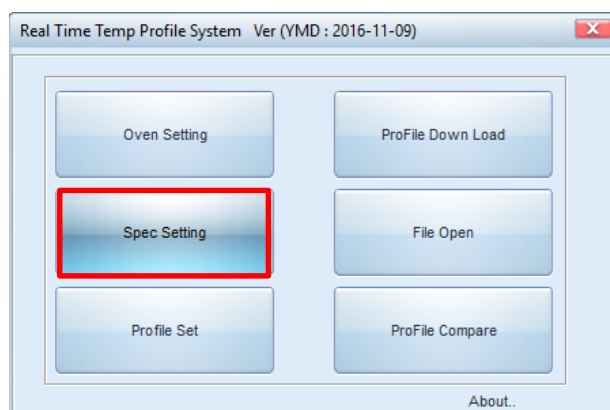
Create the folder that named following 'Front Product' at 'C:\W2010_RTTPSWProfile' through push the 'SAVE' button.

○ Oven Setting → SAVE AS button

Create the '.INI file' that include input values on 'Oven Setting' into the folder that named following 'Front Product' at 'C:\W2010_RTTPWProfile' through push the 'SAVE AS' button.

Spec Setting of Wave

○ Spec Setting of Wave



Spec Setting of Wave

SEQ 1 SolderPaste Name & Model

PreHeat of PCB TOP ~

PreHeat of PCB BOT ~

Peak Temp of Solder ~

Dip Time USE All

Left ~

Center ~

Right ~

Dip Time Kind 1st+2nd

Falling

Channel Solder

Delta T Section

Temp Start End

Slope Low High

☐ Use

SEQ	Solder Paste Name	USE
1	FR1	ON
2	FR4	
3	FR4 JIG	
4	UI_4	
5		
6		
7		
8		
9		
10		

Maximum PWI to allow Virtual Profile %

Save Close

Spec Setting of Wave

○ Spec Setting of Wave

Spec Setting of Wave

The screenshot shows the 'Spec Setting of Wave' dialog box with the following settings and annotations:

- SEQ:** 1 (highlighted in yellow)
- SolderPaste Name & Model:** FR1
- PreHeat of PCB TOP:** 60 ~ 120 (Annotated: PreHeat of PCB TOP : PCB preheat top surface temperature)
- PreHeat of PCB BOT:** 80 ~ 120 (Annotated: PreHeat of PCB BOT : PCB preheat bottom surface temperature)
- Peak Temp of Solder:** 250 ~ 260 (Annotated: Peak Temp of Solder : Solder port temperature)
- Dip Time:**
 - USE: All (Annotated: Dip Time: 1. Center : Measure the central Dip Time, 2. All : left, center, right, measure each Dip time)
 - Left: 5 ~ 13
 - Center: 5 ~ 13
 - Right: 5 ~ 13
 - Dip Time Kind: 1st+2nd
- Falling:**
 - Channel: Solder
 - Delta T: Section
 - Temp Start: 240, End: 100
 - Slope Low: -20, High: -7
 - ☐ Use
 - (Annotated: Falling : Section after solder port)
- Maximum PWI to allow Virtual Profile:** 900 % (Annotated: 실시간 프로파일에서 사용될 PWI최대값, Maximum PWI value available for Real-Time Profiler)

Buttons: Save, Close

1. Delta T type

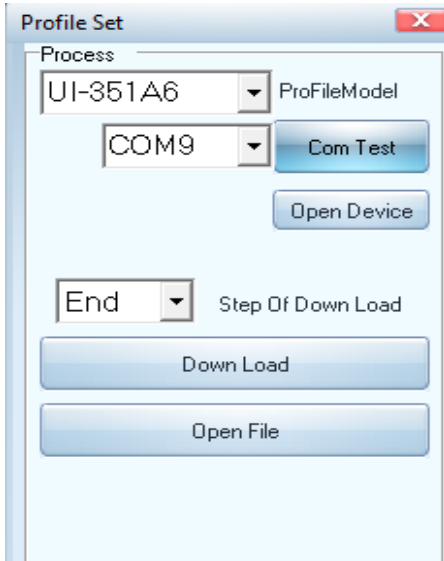
Measurement method of average temperature change per second in 20 sec interval where the temperature change of the falling section is greatest

2. Section type

Measurement of average temperature change per second within the specified temperature range

ProFile Down Load

○ ProFile Down Load – Profile Set



– ProFile Set –

ProFile Model : Select the profile model to use (UI-351A6)

Com Test : Confirm communication link between Pc and Profiler

Open Device : Device Manager shortcut

Step Of Down Load : Internal data stored in Profiler (Can store up to 5 times)

Down Load : Download data stored in Profiler

Open File : Used to load saved data (.3ui file)

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Read Data

Read Data

Reading Profile

Front

Cancel Save As Xls Submit

Delete Ready Time Run 0 Sec Delete Tail Time Run 0 Sec

5700 / 5700

SEC	1	2	3	4	5	6
0	22.6	22.5	22.1	0	0	0
3	23.0	22.7	21.8	0	0	0
6	24.9	22.4	21.8	0	0	0
9	22.7	22.5	21.8	0	0	0
1.2	22.8	22.6	21.8	0	0	0
1.5	22.5	22.6	21.8	0	0	0
1.8	22.7	22.4	21.8	0	0	0
2.1	23.0	22.8	21.8	0	0	0
2.4	22.7	22.7	22.0	0	0	0
2.7	22.8	22.7	21.7	0	0	0
3.0	22.7	22.4	21.7	0	0	0
3.3	22.8	22.8	21.6	0	0	0
3.6	22.7	22.6	21.7	0	0	0
3.9	22.7	22.5	21.8	0	0	0
4.2	23.0	22.7	21.8	0	0	0
4.5	22.6	22.3	21.9	0	0	0
4.8	22.9	22.6	21.9	0	0	0
5.1	22.8	22.7	21.6	0	0	0
5.4	22.8	22.6	21.6	0	0	0
5.7	22.6	22.5	22.1	0	0	0
6.0	22.0	22.5	21.0	0	0	0

ITEM/SEQ	1 St	2 nd
Center Dip	3.04	0.00
C/V	1.48	0.00
Pre Top	105.0	.0
Pre Bot	119.1	.0
Peak Top	138.0	.0
Peak Bot	187.9	.0
Solder T	264.0	.0
Left 0.0	3.64	0.00
Left -0.6	3.48	0.00
Left -0.9	3.24	0.00
Left -1.2	2.91	0.00
Left -1.5	2.65	0.00
Left -1.8	2.49	0.00
Right 0.0	3.11	0.00
Right-0.6	3.11	0.00
Right-0.9	2.93	0.00
Right-1.2	2.83	0.00
Right-1.5	2.80	0.00
Right-1.8	2.15	0.00

Save As Xls : Save the downloaded data as an Excel file

Submit : Graph the downloaded data (Click to go to Profile View)

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Read Data

Read Data

Reading Profile

Front

Delete Ready Time 0 Sec Delete Tail Time Sec

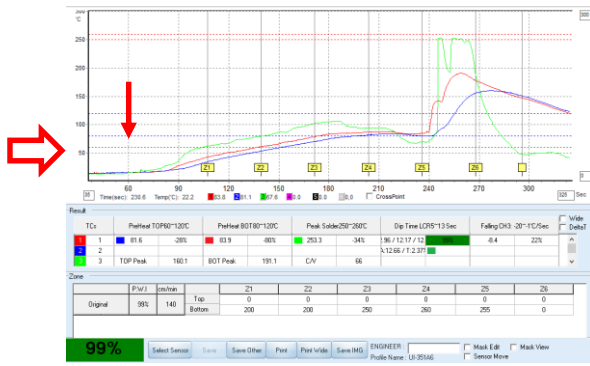
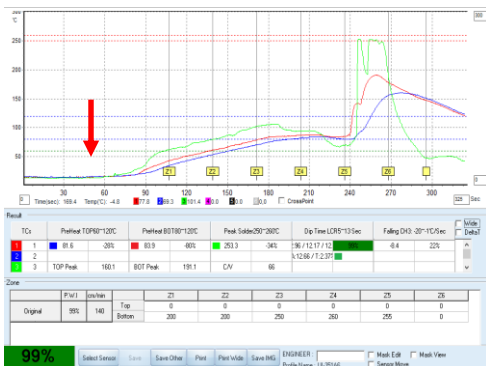
5700 / 5700

SEC	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6
0	22.5	22.5	22.1	0	0	0
3	23.0	22.7	21.8	0	0	0
6	24.9	22.4	21.8	0	0	0
9	22.7	22.5	21.8	0	0	0
12	22.8	22.6	21.8	0	0	0
15	22.5	22.6	21.8	0	0	0
18	22.7	22.4	21.8	0	0	0
21	23.0	22.8	21.8	0	0	0
24	22.7	22.7	22.0	0	0	0
27	22.8	22.7	21.7	0	0	0
30	22.7	22.4	21.7	0	0	0
33	22.8	22.8	21.6	0	0	0
36	22.7	22.6	21.7	0	0	0
39	22.7	22.5	21.8	0	0	0
42	23.0	22.7	21.8	0	0	0
45	22.6	22.3	21.9	0	0	0
48	22.9	22.6	21.9	0	0	0
51	22.8	22.7	21.6	0	0	0
54	22.8	22.6	21.6	0	0	0
57	22.6	22.5	22.1	0	0	0
60	22.6	22.6	21.6	0	0	0

ITEM/SEQ	1 St	2 nd
Center Dip	3.04	0.00
CAV	1.48	0.00
Pre Top	105.0	.0
Pre Bot	119.1	.0
Peak Top	138.0	.0
Peak Bot	187.9	.0
Solder T	264.0	.0
Left 0.0	3.64	0.00
Left -0.6	3.48	0.00
Left -0.9	3.24	0.00
Left -1.2	2.91	0.00
Left -1.5	2.65	0.00
Left -1.8	2.49	0.00
Right 0.0	3.11	0.00
Right-0.6	3.11	0.00
Right-0.9	2.93	0.00
Right-1.2	2.83	0.00
Right-1.5	2.80	0.00
Right-1.8	2.15	0.00

Delete front of graph Time : Remove the front (Used to edit the graph)

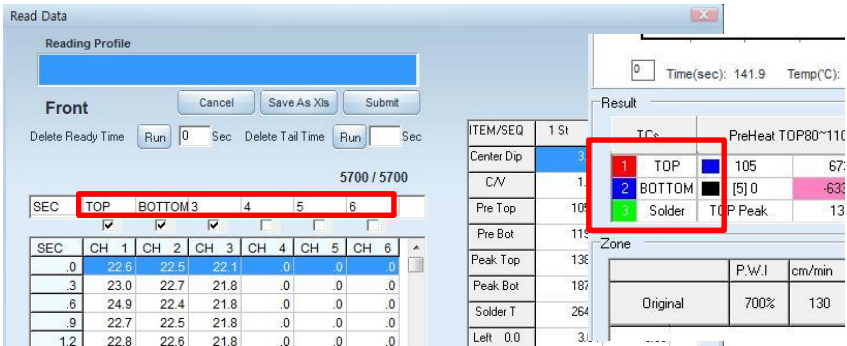
Delete back of graph Time : Remove the rear (Used to edit the graph)



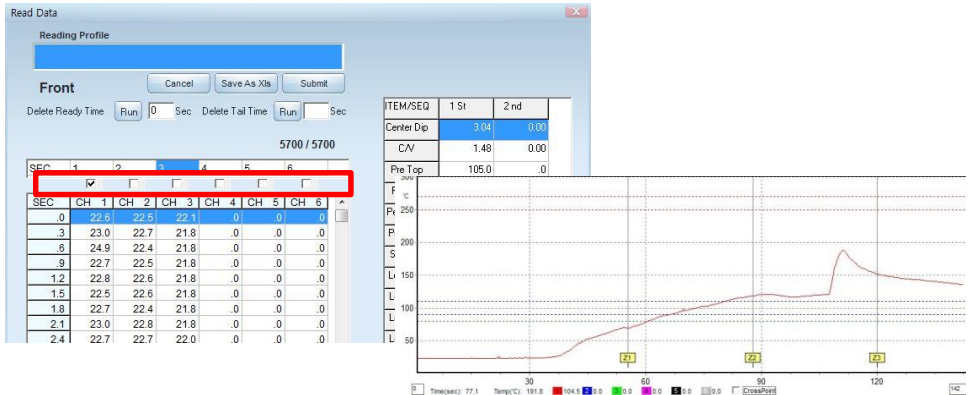
ex) Delete front of graph time

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Read Data



○ Channel edit function : You can change the name
(Used to edit the graph)



Ex) Select only No.1 channel

○ Channel selection function : When you delete or edit a graph

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Read Data

SEC	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6
.0	22.6	22.5	22.1	.0	.0	.0
.3	23.0	22.7	21.8	.0	.0	.0
.6	24.9	22.4	21.8	.0	.0	.0
.9	22.7	22.5	21.8	.0	.0	.0
1.2	22.8	22.6	21.8	.0	.0	.0
1.5	22.5	22.6	21.8	.0	.0	.0
1.8	22.7	22.4	21.8	.0	.0	.0
2.1	23.0	22.8	21.8	.0	.0	.0
2.4	22.7	22.7	22.0	.0	.0	.0
2.7	22.8	22.7	21.7	.0	.0	.0
3.0	22.7	22.4	21.7	.0	.0	.0
3.3	22.8	22.8	21.6	.0	.0	.0
3.6	22.7	22.6	21.7	.0	.0	.0
3.9	22.7	22.5	21.8	.0	.0	.0
4.2	23.0	22.7	21.8	.0	.0	.0
4.5	22.6	22.3	21.9	.0	.0	.0
4.8	22.9	22.6	21.9	.0	.0	.0
5.1	22.8	22.7	21.6	.0	.0	.0
5.4	22.8	22.6	21.6	.0	.0	.0
5.7	22.6	22.5	22.1	.0	.0	.0
6.0	22.0	22.5	21.0	.0	.0	.0

○ SEC : Second

Display in the 0.3 seconds of sampling time

○ CH 1 ~ CH 6

Using 1Channel ~ 6Channel

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Read Data

ITEM/SEQ	1 St	2 nd
Center Dip	3.04	0.00
C/V	1.48	0.00
Pre Top	105.0	.0
Pre Bot	119.1	.0
Peak Top	138.0	.0
Peak Bot	187.9	.0
Solder T	264.0	.0
Left 0.0	3.64	0.00
Left -0.6	3.48	0.00
Left -0.9	3.24	0.00
Left -1.2	2.91	0.00
Left -1.5	2.65	0.00
Left -1.8	2.49	0.00
Right 0.0	3.11	0.00
Right-0.6	3.11	0.00
Right-0.9	2.93	0.00
Right-1.2	2.83	0.00
Right-1.5	2.80	0.00
Right-1.8	2.15	0.00

○ ITEM/SEQ : Display data

① **Center Dip** : Center dip time

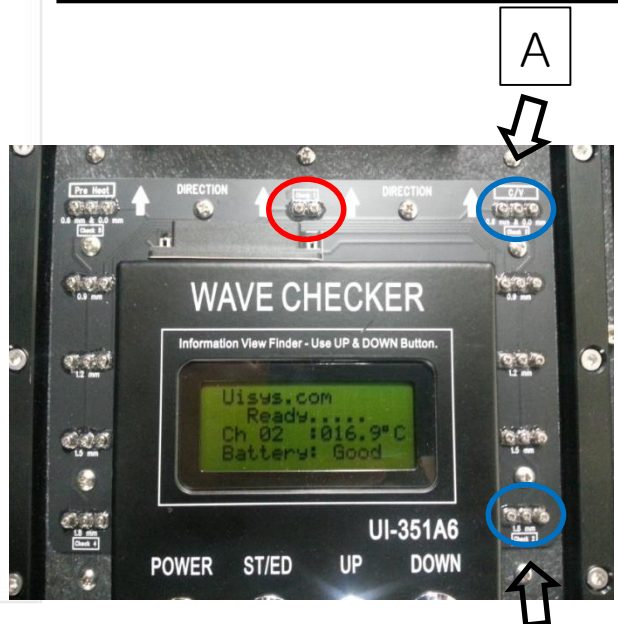
② **C/V** : Conveyor speed

* Calculating the conveyor speed
by the time difference between the
right pin sensor point A and point B

Center Dip : Center dip time

Center Dip : Center dip time

*Display in the 0.3 seconds
of sampling time



A

B

ProFile Down Load/ Read Data

○ ProFile Down Load – ProFile Set – Down Load – Read Data

ITEM/SEQ	1 St	2 nd
Center Dip	3.04	0.00
C/V	1.48	0.00
Pre Top	105.0	.0
Pre Bot	119.1	.0
Peak Top	138.0	.0
Peak Bot	187.9	.0
Solder T	264.0	.0
Left 0.0	3.64	0.00
Left -0.6	3.48	0.00
Left -0.9	3.24	0.00
Left -1.2	2.91	0.00
Left -1.5	2.65	0.00
Left -1.8	2.49	0.00
Right 0.0	3.11	0.00
Right-0.6	3.11	0.00
Right-0.9	2.93	0.00
Right-1.2	2.83	0.00
Right-1.5	2.80	0.00
Right-1.8	2.15	0.00

○ ITEM/SEQ : Display data

① Pre Top : B Channel

Sensor position : Top of preheater board

② Pre Bottom : A Channel

Sensor position : Bottom of preheater board

Pre Top : preheater zone temperature of top of preheater board(**B Channel**)

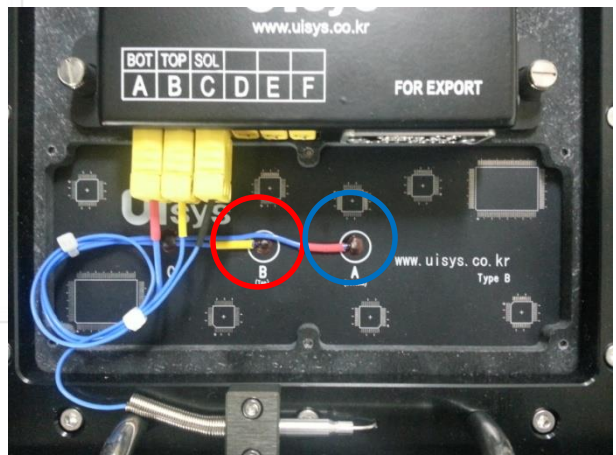
Pre Bot : preheater zone temperature of bottom of preheater board(**A Channel**)

*The temperature value of the preheater zone is the temperature value of the top surface and bottom surface when the port touches the left pin sensor(0mm)

Peak Top : The maximum temperature of top of preheater board(**B Channel**)

Peak Bot : The maximum temperature of bottom of preheater board(**A Channel**)

Solder T : The maximum temperature of solderport(**C Channel**)



ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Read Data

ITEM/SEQ	1 St	2 nd
Center Dip	3.04	0.00
C/V	1.48	0.00
Pre Top	105.0	.0
Pre Bot	119.1	.0
Peak Top	138.0	.0
Peak Bot	187.9	.0
Solder T	264.0	.0
Left 0.0	3.64	0.00
Left -0.6	3.48	0.00
Left -0.9	3.24	0.00
Left -1.2	2.91	0.00
Left -1.5	2.65	0.00
Left -1.8	2.49	0.00
Right 0.0	3.11	0.00
Right-0.6	3.11	0.00
Right-0.9	2.93	0.00
Right-1.2	2.83	0.00
Right-1.5	2.80	0.00
Right-1.8	2.15	0.00

○ ITEM/SEQ : Display data

① **Left** : Pin sensor

(it must be left in both solder the 3-pin)

② **Right** : Pin sensor

(It must be left in both solder the 3-pin)

Left 0.0 : Left 0.0mm

Left -0.0 : Left -0.6mm

Left -0.0 : Left -0.9mm

Left -0.0 : Left -1.2mm

Left -0.0 : Left -1.5mm

Left -0.0 : Left -1.8mm

Right 0.0 : Right 0.0mm

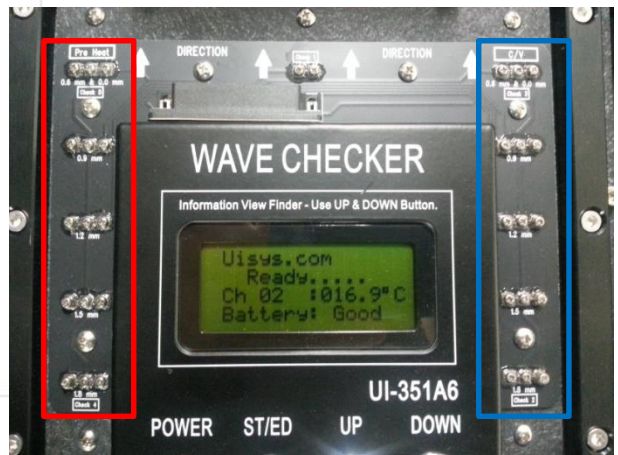
Right -0.0 : Right -0.6mm

Right -0.0 : Right -0.9mm

Right -0.0 : Right -1.2mm

Right -0.0 : Right -1.5mm

Right -0.0 : Right -1.8mm



ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Read Data

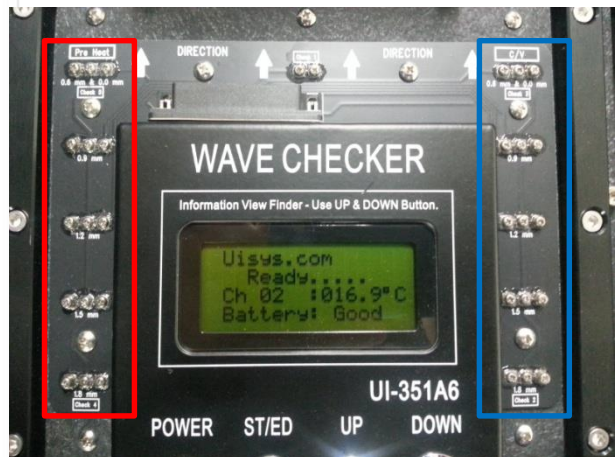
ITEM/SEQ	1 St	2 nd
Center Dip	3.04	0.00
C/V	1.48	0.00
Pre Top	105.0	.0
Pre Bot	119.1	.0
Peak Top	138.0	.0
Peak Bot	187.9	.0
Solder T	264.0	.0
Left 0.0	3.64	0.00
Left -0.6	3.48	0.00
Left -0.9	3.24	0.00
Left -1.2	2.91	0.00
Left -1.5	2.65	0.00
Left -1.8	2.49	0.00
Right 0.0	3.11	0.00
Right-0.6	3.11	0.00
Right-0.9	2.93	0.00
Right-1.2	2.83	0.00
Right-1.5	2.80	0.00
Right-1.8	2.15	0.00

○ ITEM/SEQ : Display data

① 1 st : When the pin sensor touches the first port, the 1st data is filled

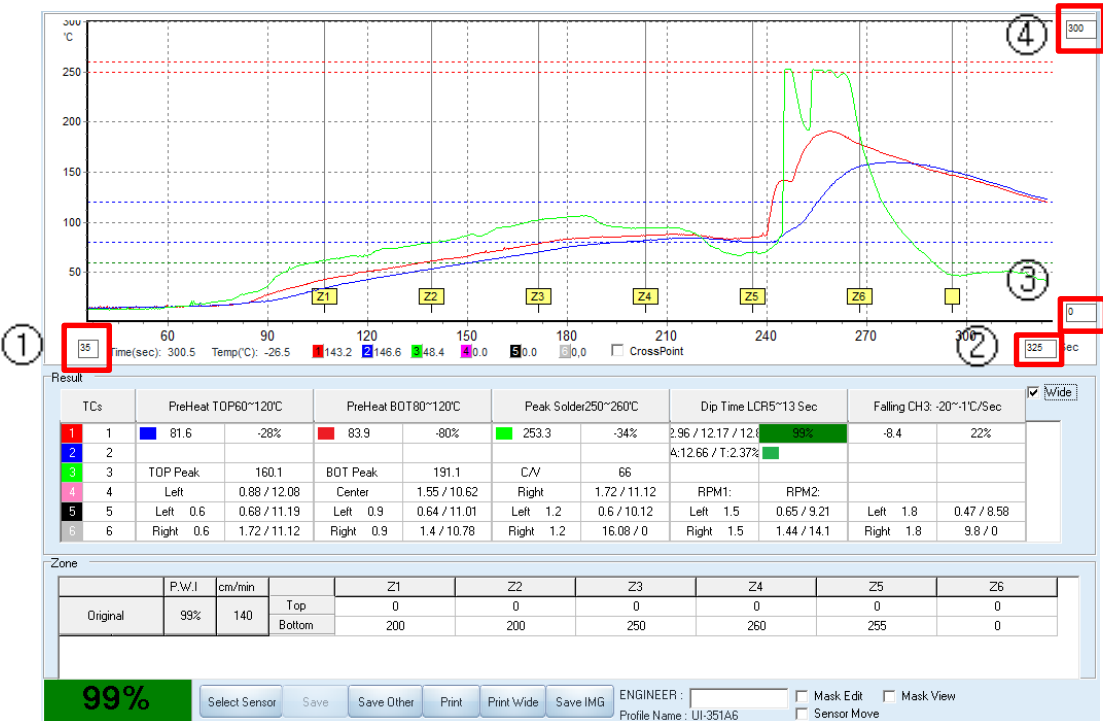
② 2 nd : When the pin sensor touches the second port, the 2nd data is filled

* Each sensor pins are individual operation



ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)



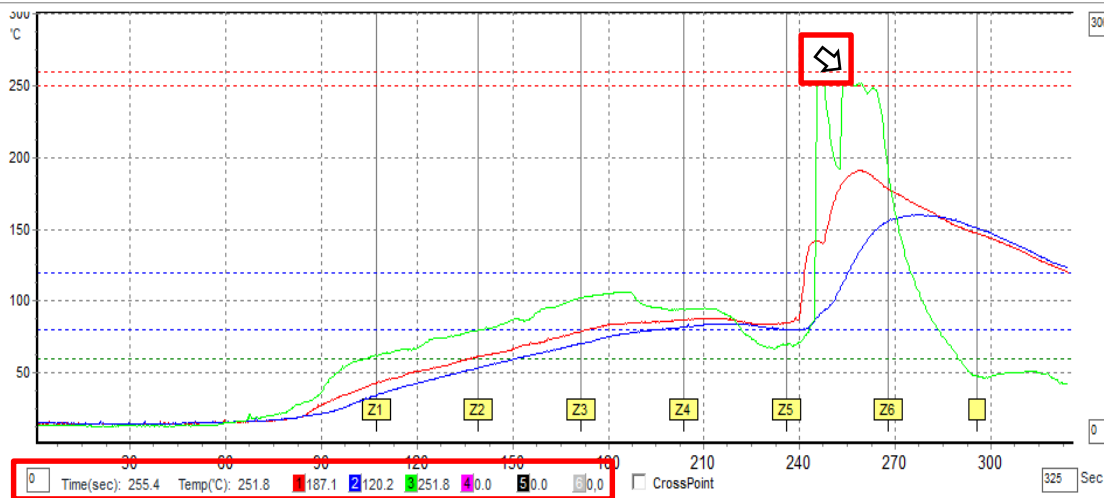
○ Specify the range of the graph

You can set the range of the graph with the keyboard

- ① Delete front of graph Time
- ② Delete back of graph Time
- ③ X-axis range of the graph
- ④ Y-axis range of the graph

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)



– Description of the cursor position –

Time(sec) xxx.xx : Time of the current position of the cursor

Temp(°C) xxx.xx : Temperature of the current position of the cursor

1 : Temperature of No.1 channel of the cursor position

2 : Temperature of No.2 channel of the cursor position

3 : Temperature of No.3 channel of the cursor position

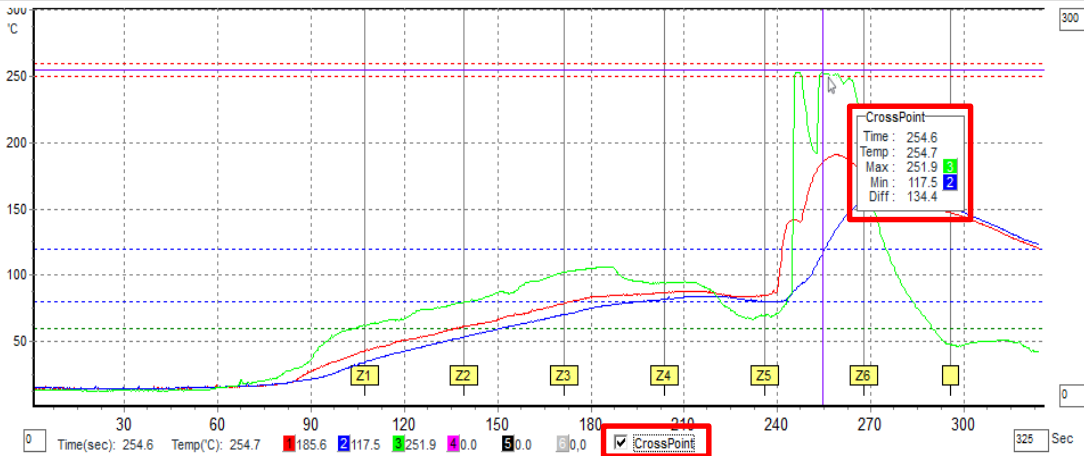
4 : Temperature of No.4 channel of the cursor position

5 : Temperature of No.5 channel of the cursor position

6 : Temperature of No.6 channel of the cursor position

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)



–CrossPoint (The extension selection of X-axis and Y-axis to the position of the cursor)

Time : Time of the current position of the cursor

Temp : Temperature of the current position of the cursor

Max : Displays the maximum temperature value and channel among the six channels on the time axis at the cursor position

Min : Displays the minimum temperature value and channel among the six channels on the time axis at the cursor position

Diff : The difference between the Max value and Min value

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

TCs	PreHeat TOP60~120℃		PreHeat BOT80~120℃		Peak Solder250~260℃		Dip Time LCR5~13 Sec		Falling CH3: -20~-1℃/Sec		
1	1	81.6	-28%	83.9	-80%	253.3	-34%	96 / 12.17 / 12	99%	-8.4	22%
2	2							12.66 / T:2.37%			
3	3	TOP Peak	160.1	BOT Peak	191.1	C/V	66				
4	4	Left	0.88 / 12.08	Center	1.55 / 10.62	Right	1.72 / 11.12	RPM1:	RPM2:		
5	5	Left 0.6	0.68 / 11.19	Left 0.9	0.64 / 11.01	Left 1.2	0.6 / 10.12	Left 1.5	0.65 / 9.21	Left 1.8	0.47 / 8.58
6	6	Right 0.6	1.72 / 11.12	Right 0.9	1.4 / 10.78	Right 1.2	16.08 / 0	Right 1.5	1.44 / 14.1	Right 1.8	9.8 / 0

– Result : Display the production management standards –

Preheat Top : 60~120 °C

Preheat Bot : 80~120 °C

Peak Solder : 250~260 °C

Dip TimeLCR1 : 5~13 Sec

Falling CH3 : 240~100 °C
-20~-1 °C/S

Spec Setting of Wave

SEQ SolderPaste Name & Model

1 FR1

PreHeat of PCB TOP 60 ~ 120

PreHeat of PCB BOT 80 ~ 120

Peak Temp of Solder 250 ~ 260

Dip Time USE All

Left 5 ~ 13

Center 5 ~ 13

Right 5 ~ 13

Dip Time Kind 1st+2nd

Falling

Channel Solder

Delta T Section

Temp Start 240 End 100

Slope Low -20 High -7

Use

Maximum PWL to allow Virtual Profile 900 %

Save Close

SEQ	Solder Paste Name	USE
1	FR1	ON
2	FR4	
3	FR4 JIG	
4	UL_4	
5		
6		
7		
8		
9		
10		

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

Result

TCs	PreHeat TOP60~120°C		PreHeat BOT80~120°C		Peak Solder250~260°C		Dip Time LCR5~13 Sec		Falling CH3: -20~-1°C/Sec		☒ Wide ☐ Delta
1	1	81.6	-28%	83.9	-80%	253.3	-34%	12.96 / 12.17 / 12.84	93%	-8.4	22%
2	2							12.66 / 12.37			
3	3	TOP Peak	160.1	BOT Peak	191.1	C/V	66				
4	4	Left	0.88 / 12.08	Center	1.55 / 10.62	Right	1.72 / 11.12	RPM1:	RPM2:		
5	5	Left 0.6	0.68 / 11.19	Left 0.9	0.64 / 11.01	Left 1.2	0.6 / 10.12	Left 1.5	0.65 / 9.21	Left 1.8	0.47 / 8.58
6	6	Right 0.6	1.72 / 11.12	Right 0.9	1.4 / 10.78	Right 1.2	16.08 / 0	Right 1.5	1.44 / 14.1	Right 1.8	9.8 / 0

○ TCs: Color display for each channel

○ Display temperature and PWI data

Peak Solder250~260°C	
253.3	-34%

↑ ↑ ↑

Ex)

Channel / temperature / PWI

12.96/12.17/12.84 : Left/Center/Right 0.0mm Dip time of pin sensor

TOP Peak : Maximum temperature of top of preheater

BOT Peak : Maximum temperature of bottom of preheater

C/V : Speed of conveyor

○ Display pinsensor data

Left	0.88 / 12.08
------	--------------

↑ ↑

Ex)

Left 0.0mm First / Second

RPM1 : Display 1st impeller RPM

RPM2 : Display 2nd impeller RPM

○ wide: Whether or not to display the detailed measurement results

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

Zone

	P.W.I	cm/min		Z1	Z2	Z3	Z4	Z5	Z6
Original	99%	140	Top	0	0	0	0	0	0
			Bottom	200	200	250	260	255	0

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

ENGINEER :
Profile Name : UI-351A6

☐ Mask Edit
☐ Sensor Move

☐ Mask View

– Zone (Data of wave device set in current Oven Setting) –

P.W.I : Displays the worst PWI value of the currently measured PWI results

cm/min : Conveyor speed value of wave device set in current Oven Setting

Oven Setting

Detail Oven

Oven Name : Uisys
Line NO : No.1
Product : UI-351A6

Number of Zones : 5
Nuber of cools : 1
Kind of Fan : Hz

Wave
Zone of Solder Port : 5
Use Solder Port : 1ST+2ND
Solder Port RPM1 : 0
Solder port RPM2 : 0

C/V : 140 cm/min

O2 PPM : 859
ENGINEER :

Com Port Set

FanSpeed : %
Temp : °C
Length : mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp	230	195	165	165	170	200	265	
Bottom Temp	230	195	165	165	170	200	265	
Fan Speed	15	15	15	15	15	15	15	
Zone Length	5000	650	650	650	650	650	650	1200

Save As

Length Edit

Save

Close

The temperature data set in the device

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

Zone

	P.W.I	cm/min		Z1	Z2	Z3	Z4	Z5	Z6
Original	99%	140	Top	0	0	0	0	0	0
			Bottom	200	200	250	260	255	0

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

ENGINEER :
Profile Name : UI-351A6

☐ Mask Edit ☐ Mask View
☐ Sensor Move

Result

TCs	PreHeat TOP60~120°C	PreHeat BOT80~120°C	Peak Solder250~260°C	Dip Time LCR5~13 Sec	Falling CH3: -20~-1°C/Sec
1	81.6	83.9	253.3	96 / 12.17 / 1	-8.4
2					22%
3	TOP Peak	BOT Peak	C/V		
4	Left	Center	Right	RPM1:	RPM2:
5	Left 0.6	Left 0.9	Left 1.2	Left 1.5	Left 1.8
6	Right 0.6	Right 0.9	Right 1.2	Right 1.5	Right 1.8

– PWI값 (The worst of the currently measured PWI values) –

Kind of PWI, which is currently operation (It may vary according to the set value)

Temperature of Top : 2CH

Temperature of Bottom : 1CH

Temperature of Solder : 3CH

Dip Time : Pin sensor 0.0mm , Left / Center / Right

Solder CH03 : Speed when channel3 temperature drops from 240 to 100 degrees

It is Over-Spec is displayed in pink, PWI worst value is displayed in red

What is the PWI? (page 97)

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

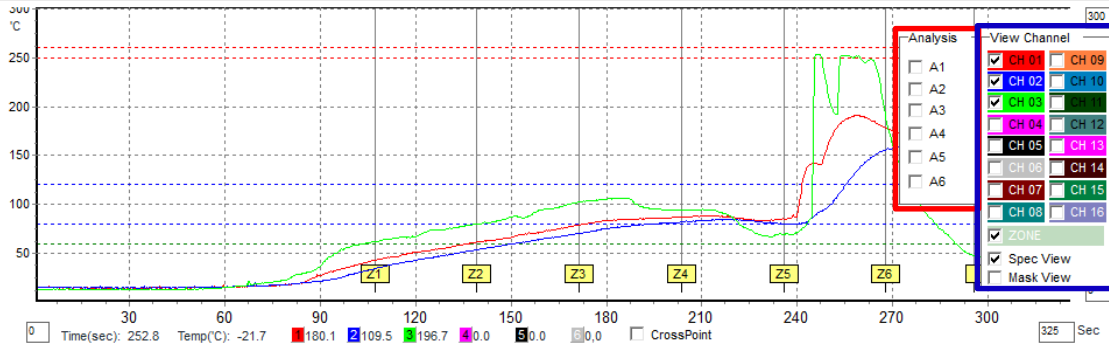
ENGINEER :

Profile Name : UI-351A6

☐ Mask Edit

☐ Mask View

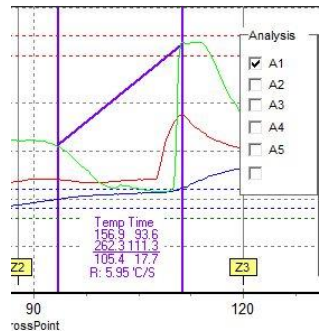
☐ Sensor Move



– Select Sensor (Used to analyze the graph) –

Analysis : Used for accurate determination of the graph
(Up to five can be used)

- First point **temperature / time** detection
- Second point **temperature / time** detection



- **Temperature difference / time difference** detection between two point
- **Temperature change per hour** between two point
(*Printer is output together.)

View Channel : You can show and hide a specific channel's graph

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

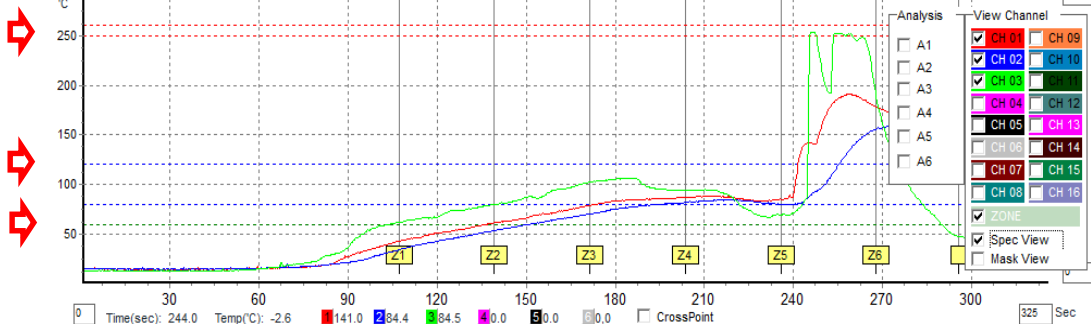
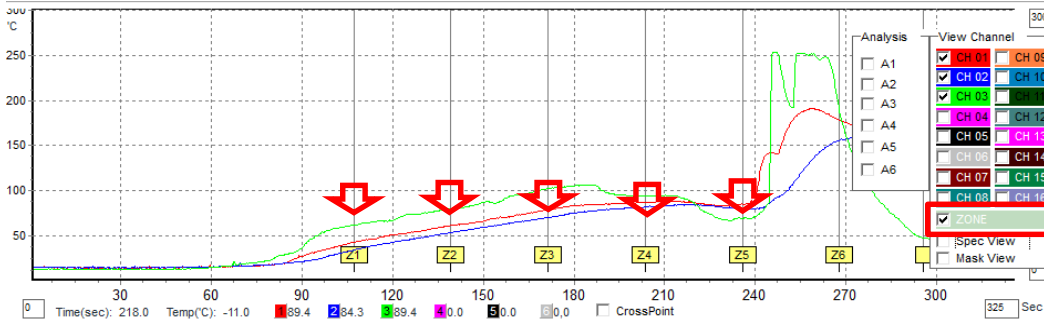
ENGINEER :

Profile Name : UI-351A6

☐ Mask Edit

☐ Mask View

☐ Sensor Move

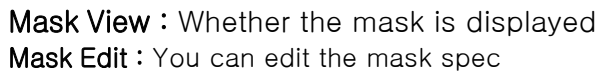


– Select Sensor (Used to analyze the graph) –

ZONE : Whether zone graphs are displayed

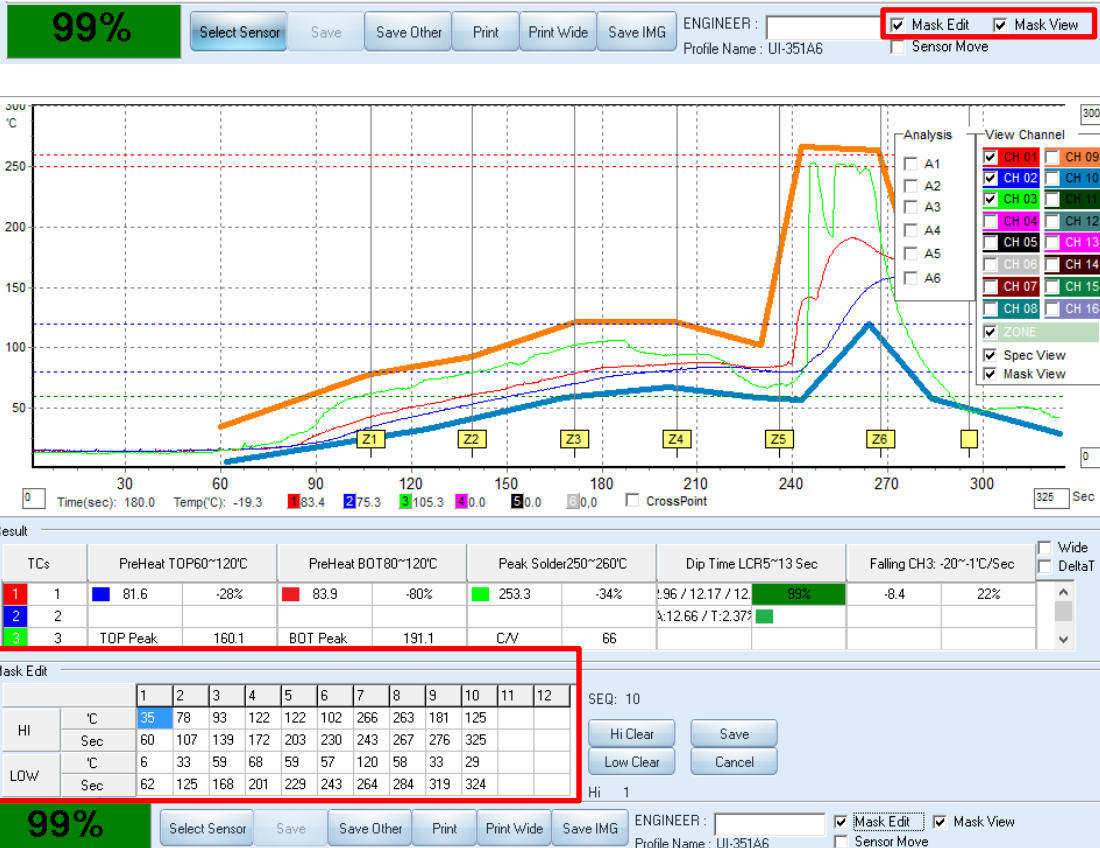
Spec View : Whether the production control standard is displayed on the graph

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)



ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)



Mask Edit : You can edit the mask by clicking on the desired pointer on the graph
if you want detailed mask setting, you can input it manually in the edit
function after editing, be sure to click save button to save the mask view
function is activated

Hi Clear : Clear top line

Low Clear : Clear below line

Save : Mask Save

One mask per production control standard is saved

if you load the saved production management standard, you can also import
saved mask

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

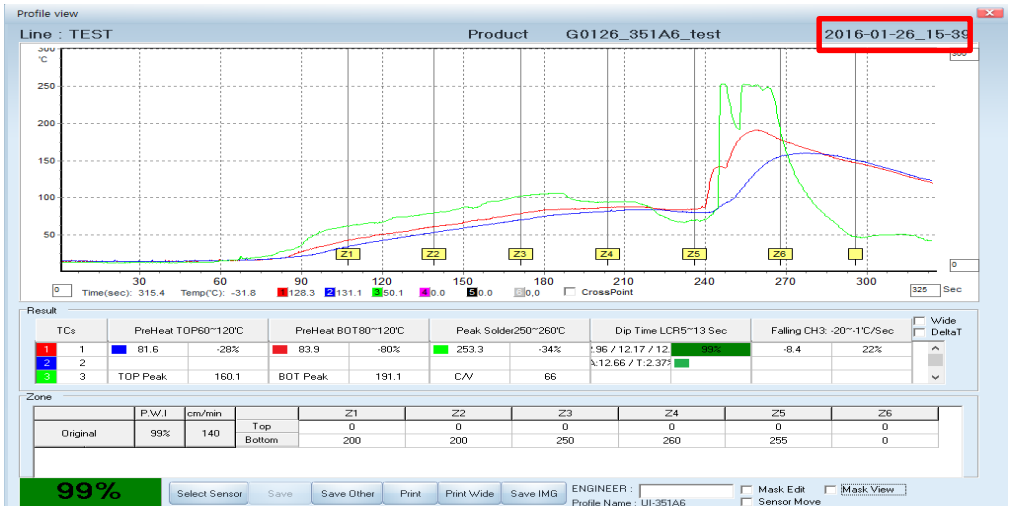
ENGINEER :

Profile Name : UI-351A6

☐ Mask Edit

☐ Mask View

☐ Sensor Move



↑ > This PC > Local Disk (C:) > 2010_RTTP > ProFile > 351A6_Front

이름	수정된 날짜	유형	크기
2016-01-26_15-38(459).3ui	2016-01-26 오후...	3UI 파일	187KB
2016-01-26_15-38(782).3ui	2016-01-26 오후...	3UI 파일	188KB
2016-01-26_15-39(472).3ui	2016-01-26 오후...	3UI 파일	206KB
2016-01-26_15-39(817).3ui	2016-12-27 오후...	3UI 파일	218KB

– Save (Save data) –

It is saved automatically in PCB folder set in Oven Setting.
When saving, Oven Setting information and internal temperature data conveyor speed are saved together

The path is saved as C: \W 2010RTTPS \W Profile \W PCB name (Product set in Oven Setting) \W year-month-day_time-minute (PWI value) .3ui, and is displayed at the upper left corner of the Profile View

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

ENGINEER :

Profile Name : UI-351A6

☐ Mask Edit

☐ Mask View

☐ Sensor Move

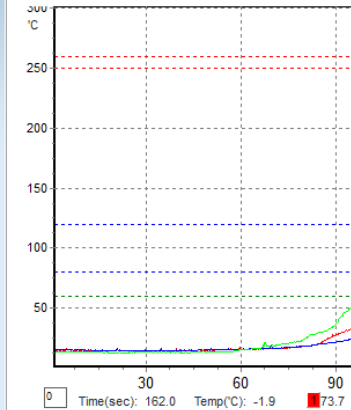
Profile view

Line : TEST

Product

G0126_351A6_test

2016-01-26_15-39



Result

TCs		PreHeat TOP60~120°C	PreH
1	1	81.6	-28%
2	2		
3	3	TOP Peak	160.1

Save As

Save in: Downloads

Quick access

- Desktop
- Libraries
- This PC
- Network

Name	Date modified	Type	Size
No items match your search.			

File name:

Save as type: .3ui

Save

Cancel

Zone

	P.W.I	cm/min		Z1	Z2	Z3	Z4	Z5	Z6
Original	99%	140	Top	0	0	0	0	0	0
			Bottom	200	200	250	260	255	0

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

ENGINEER :

Profile Name : UI-351A6

☐ Mask Edit

☐ Mask View

☐ Sensor Move

– Save Other (Saving data to another path) –

Used when saving .3ui file to another path

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

ENGINEER :

Profile Name : UI-351A6

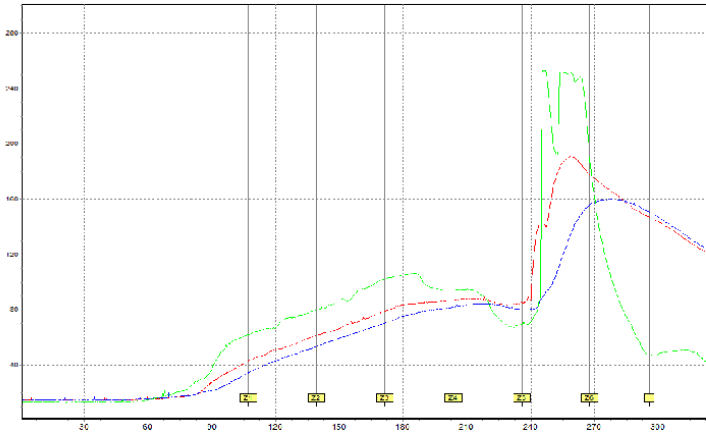
☐ Mask Edit

☐ Mask View

☐ Sensor Move

Line : TEST

2016-01-26_15-39



Oven Name	UISYS		PWI
Product Name	G0126_351A6_test		99%
Engineer			
SolderPaste Name	FR1		
 			
Submit	Draft	Review	Approve
	/	/	/

Zone		Z1	Z2	Z3	Z4	Z5	Z6								
Top		0	0	0	0	0	0								
Bottom		200	200	250	260	255	0								
C/V Speed			140 cm/min												
TCs	Position	PreHeat TOP 60~120°C		PreHeat BOT 80~120°C		Peak Solder 250~260°C		Dip Time L C R 5~13 Sec		Falling CH3 -20~-1°C/Sec					
		Temp	PWI	Temp	PWI	Temp	PWI	Time	PWI	Slope	PWI				
1	1	 81.6	-28%	 83.9	-80%	 253.3	-34%	12.96 / 12.17 / 12.84		99%	-8.4	22%			
2	2							 12.66 / T:2.37%							
3	3	TOP Peak 160.1		BOT Peak 191.1		C/V 66									
4	4	Left 0.88 / 12.08		Center 1.55 / 10.62		Right 1.72 / 11.12		RPM1:		RPM2:					
5	5	Left 0.6	0.68 / 11.19	Left 0.9	0.64 / 11.01	Left 1.2	0.6 / 10.12	Left 1.5	0.65 / 9.21	Left 1.8	0.47 / 8.58				
6	6	Right 0.6	1.72 / 11.12	Right 0.9	1.4 / 10.78	Right 1.2	16.08 / 0	Right 1.5	1.44 / 14.1	Right 1.8	9.8 / 0				

www.uisys.co.kr

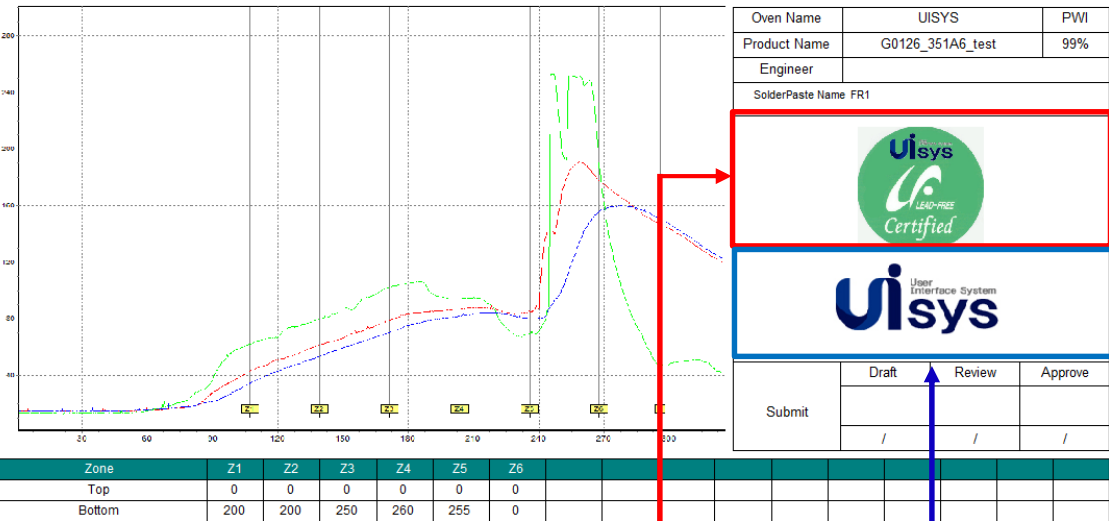
– Print (Printing, All information is printed) –

ProFile Down Load(Logo Change)

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

Line : TEST

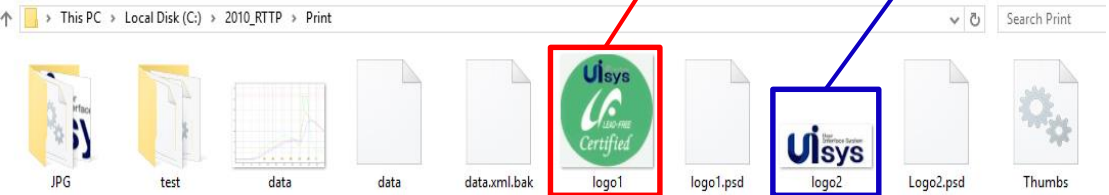
2016-01-26_15-39



Oven Name	UISYS	PWI
Product Name	G0126_351A6_test	99%
Engineer		
SolderPaste Name FR1		
		
		
Submit	Draft	Review
	/	/
	Approve	/

logo1

logo2



C:\W2010_RTTP\WPrint

Attach the jpg file to the path and change the file name to logo1, logo2

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

ENGINEER :

Profile Name : UI-351A6

☐ Mask Edit

☐ Mask View

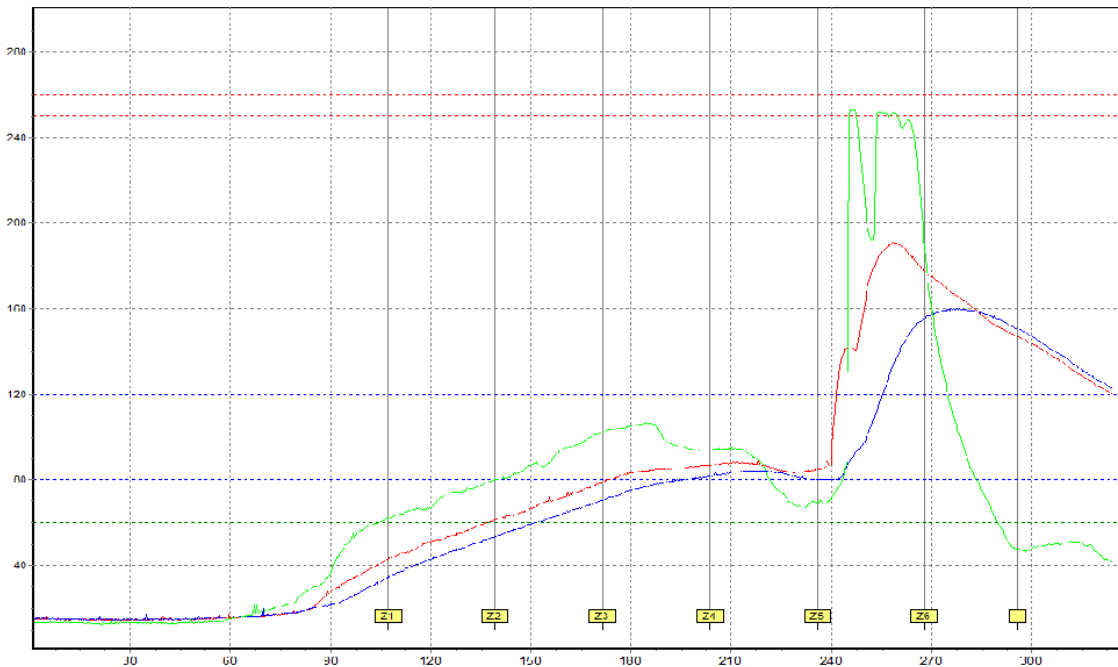
☐ Sensor Move

Line : **TEST**

2016-01-26_15-39

Product Name : G0126_351A6_test

UISYS



www.uisys.co.kr

– Print Wide (Printing, Basic information and graph is printed) –

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

☐ Sensor Move

- Save IMG (Save as picture file [.bmp]) -

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)

99%

Select Sensor

Save

Save Other

Print

Print Wide

Save IMG

ENGINEER : H.S Jang

Profile Name : UI-351A6

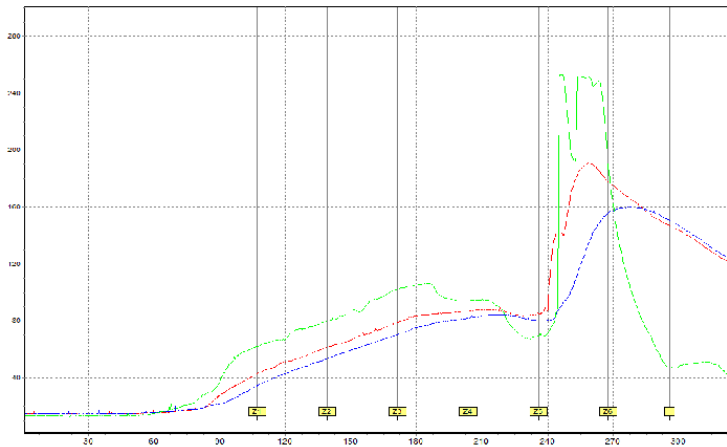
Mask Edit

Mask View

Sensor Move

Line : TEST

2016-01-26_15-39



Oven Name	UISYS	PWI
Product Name	G0126_351A6_test	99%
Engineer	H.S Jang	
SolderPaste Name: FR1		
	Draft	Review
Submit		
	/	/

Zone		Z1	Z2	Z3	Z4	Z5	Z6									
Top		0	0	0	0	0	0									
Bottom		200	200	250	260	255	0									
C/V Speed			140 cm/min													
TCs	Position	PreHeat TOP 60~120°C		PreHeat BOT 80~120°C		Peak Solder 250~260°C		Dip Time L C R 5~13 Sec		Falling CH3 -20~-1°C/Sec						
		Temp	PWI	Temp	PWI	Temp	PWI	Time	PWI	Slope	PWI					
1	1	81.6	-28%	83.9	-80%	253.3	-34%	12.96 / 12.17 / 12.84	99%	-8.4	22%					
2	2							12.66 / T:2.37%								
3	3	TOP Peak 160.1		BOT Peak 191.1		C/V 66										
4	4	Left	0.88 / 12.08	Center	1.55 / 10.62	Right	1.72 / 11.12	RPM1:	RPM2:							
5	5	Left 0.6	0.68 / 11.19	Left 0.9	0.64 / 11.01	Left 1.2	0.6 / 10.12	Left 1.5	0.65 / 9.21	Left 1.8	0.47 / 8.58					
6	6	Right 0.6	1.72 / 11.12	Right 0.9	1.4 / 10.78	Right 1.2	16.08 / 0	Right 1.5	1.44 / 14.1	Right 1.8	9.8 / 0					

www.uisys.co.kr

– Engineer (Enter the name of manager) –

ProFile Down Load

○ ProFile Down Load – ProFile Set – Down Load – Submit(Profile View)



– Sensor Move (Ability to move the graph for each channel) –

<< : Move by 5 seconds to the left

< : Move by 0.1 seconds to the left

>> : Move by 5 seconds to the right

> : Move by 0.1 seconds to the right

You can move after clicking for each channel

(*Stored in 3ui file when you save)

Select All : Click select all

ProFile Measurement Method

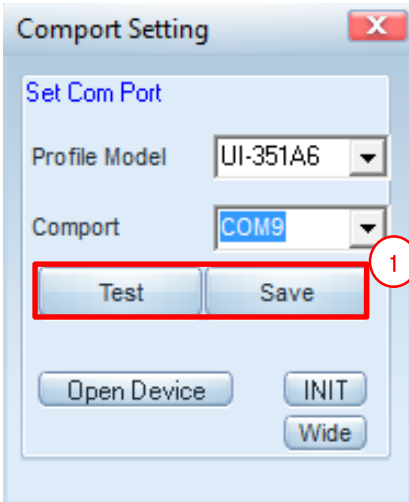
○ Measurement method using UI-351A6



1. Connect the sensor to A~F channels.
2. Push the power button to turn on the power
3. Push the ST/ED button and start measuring
4. After finishing measuring (After passing the reflow equipment), press the button again
5. Link the profiler to the computer
6. Download and analyze measured data

ProFile Setting

○ ProFile Setting



Comport Setting

Set Com Port

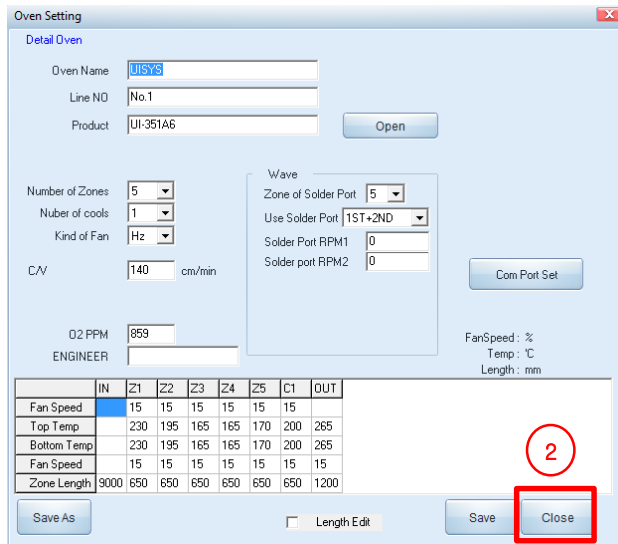
Profile Model: UI-351A6

Comport: COM9

Test Save

Open Device INIT Wide

1



Oven Setting

Detail Oven

Oven Name: Uisys

Line NO: No.1

Product: UI-351A6

Open

Number of Zones: 5

Number of cools: 1

Kind of Fan: Hz

C/V: 140 cm/min

O2 PPM: 899

ENGINEER:

Wave

Zone of Solder Port: 5

Use Solder Port: 1ST+2ND

Solder Port RPM1: 0

Solder port RPM2: 0

Com Port Set

FanSpeed: %

Temp: °C

Length: mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
Fan Speed	15	15	15	15	15	15	15	
Top Temp	230	195	165	165	170	200	265	
Bottom Temp	230	195	165	165	170	200	265	
Fan Speed	15	15	15	15	15	15	15	
Zone Length	9000	650	650	650	650	650	1200	

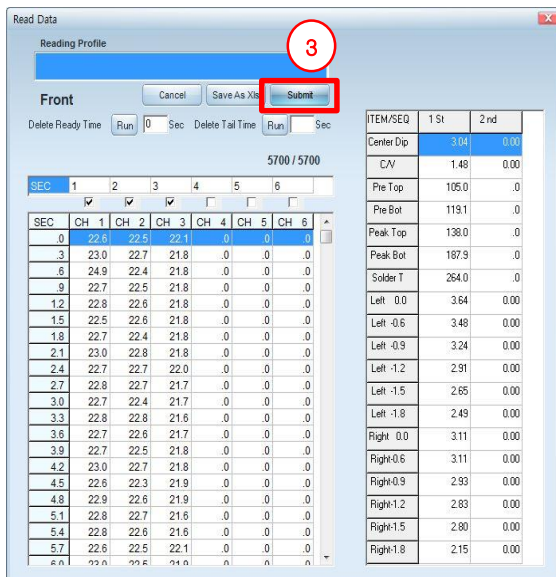
Save As

Length Edit

Save Close

2

After checking that the information on the line matches the wave device, click the 'Close' button



Read Data

Reading Profile

Front

Cancel Save As Submit

Delete Ready Time Run 0 Sec Delete Tail Time Run Sec

5700 / 5700

SEC	1	2	3	4	5	6
SEC	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6
0	22.6	22.5	22.1	0	0	0
3	23.0	22.7	21.8	0	0	0
6	24.9	22.4	21.8	0	0	0
9	22.7	22.5	21.8	0	0	0
12	22.8	22.6	21.8	0	0	0
15	22.5	22.6	21.8	0	0	0
18	22.7	22.4	21.8	0	0	0
21	23.0	22.8	21.8	0	0	0
24	22.7	22.7	22.0	0	0	0
27	22.8	22.7	21.7	0	0	0
30	22.7	22.4	21.7	0	0	0
33	22.8	22.8	21.6	0	0	0
36	22.7	22.6	21.7	0	0	0
39	22.7	22.5	21.8	0	0	0
42	23.0	22.7	21.8	0	0	0
45	22.6	22.3	21.9	0	0	0
48	22.9	22.6	21.9	0	0	0
51	22.8	22.7	21.6	0	0	0
54	22.8	22.6	21.6	0	0	0
57	22.6	22.5	22.1	0	0	0

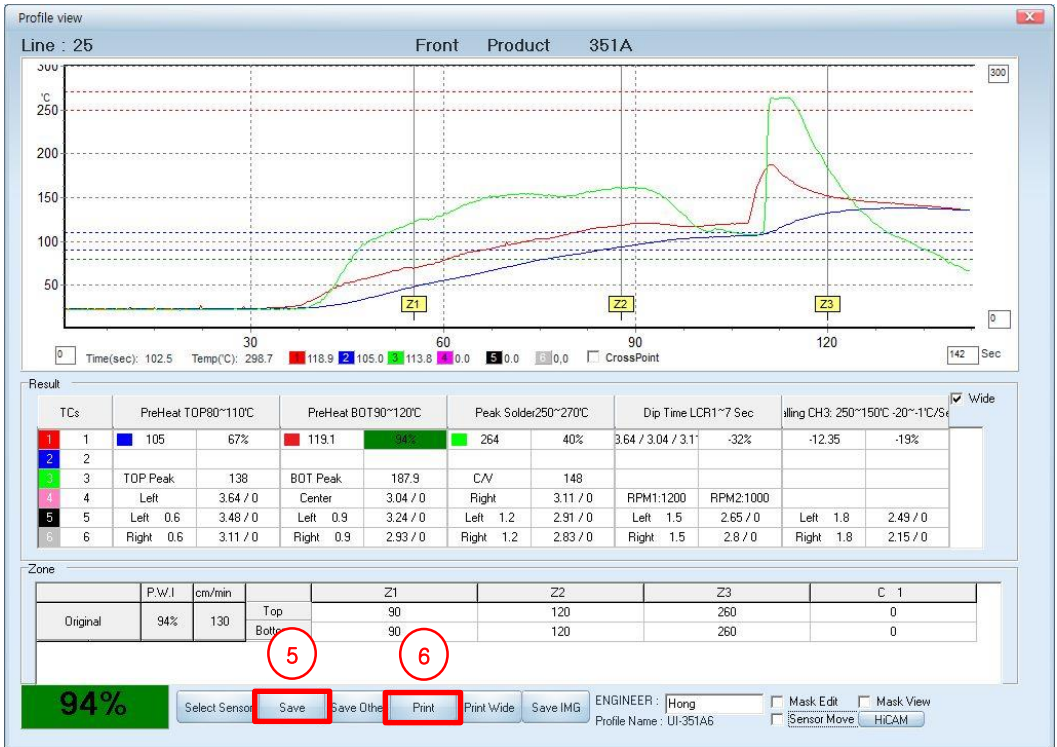
ITEM/SEQ	1st	2nd
Center Dip	3.04	0.00
C/V	1.48	0.00
Pre Top	105.0	0
Pre Bot	119.1	0
Peak Top	138.0	0
Peak Bot	187.9	0
Solder T	264.0	0
Left 0.0	3.64	0.00
Left -0.6	3.48	0.00
Left -0.9	3.24	0.00
Left -1.2	2.91	0.00
Left -1.5	2.65	0.00
Left -1.8	2.49	0.00
Right 0.0	3.11	0.00
Right 0.6	3.11	0.00
Right 0.9	2.93	0.00
Right 1.2	2.83	0.00
Right 1.5	2.80	0.00
Right 1.8	2.15	0.00

3

When you receive all the data from the profiler, click the 'Submit' button

ProFile Down Load

○ ProFile Set – Down Load – Submit(Profile View)

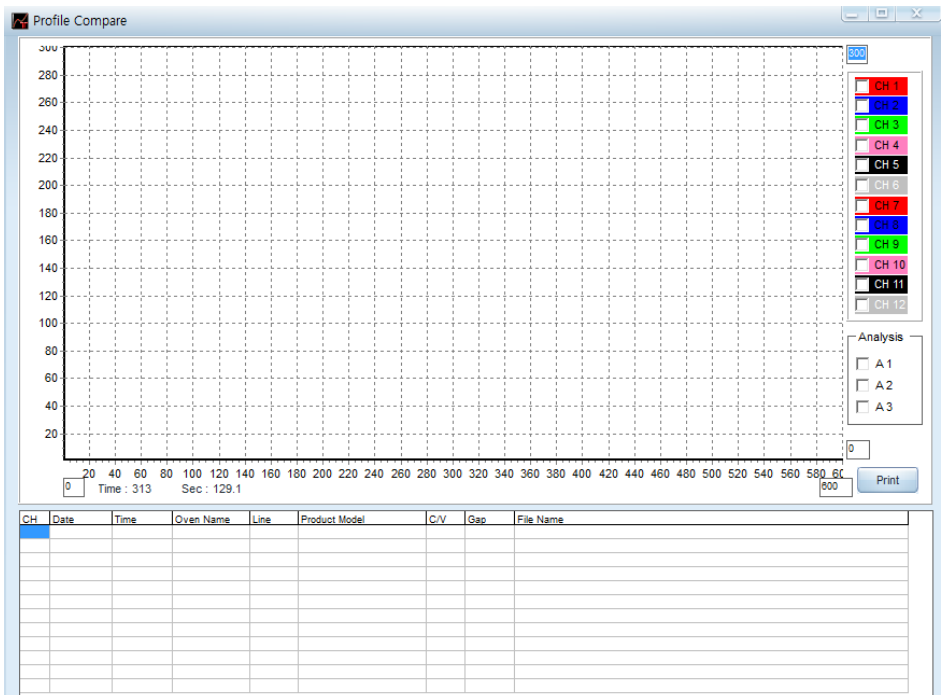


Save the measured data.

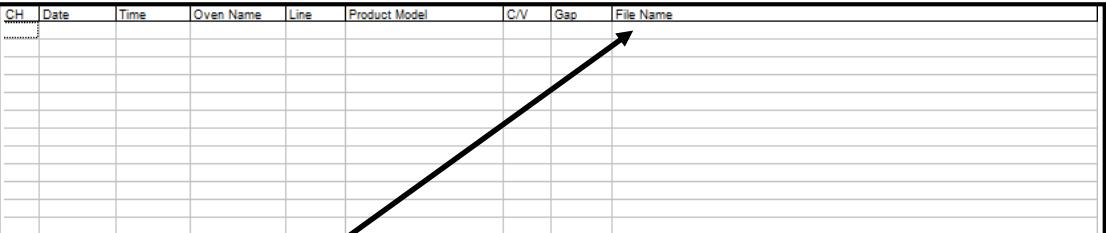
Analyze the measured data to determine if it meets production conditions
If it does not match the production conditions, correct it and measure the Profile again

Click the 'Print' button to print

○ RroFile Compare



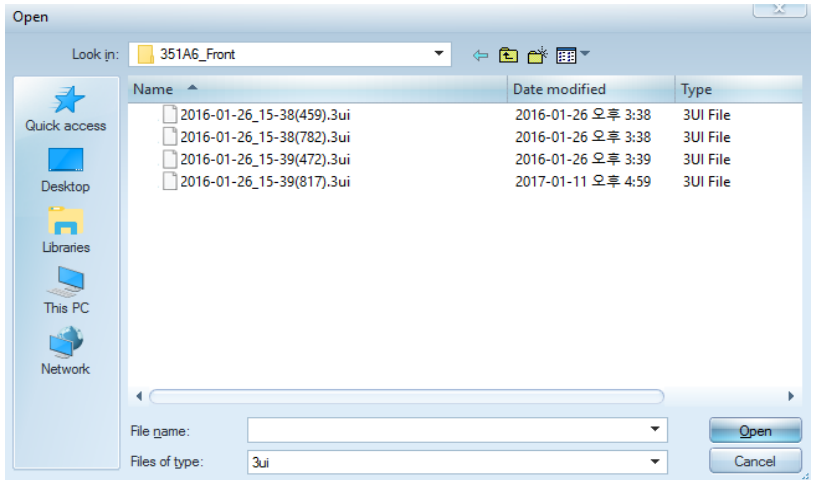
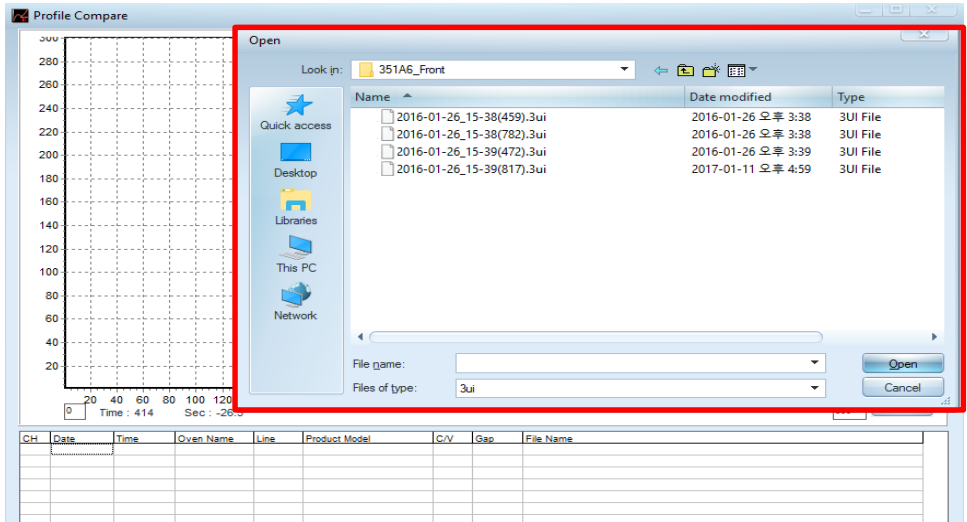
☐ ProFile Compare



1. Double-Click the first Cell

ProFile Compare

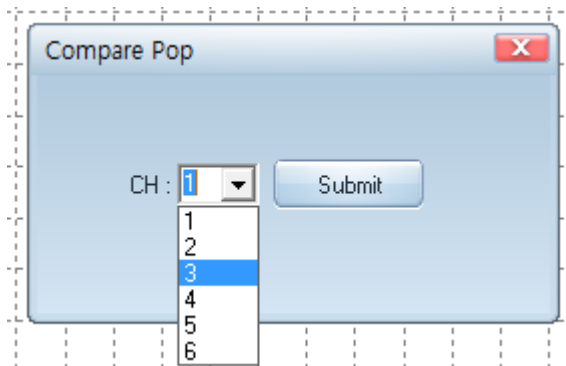
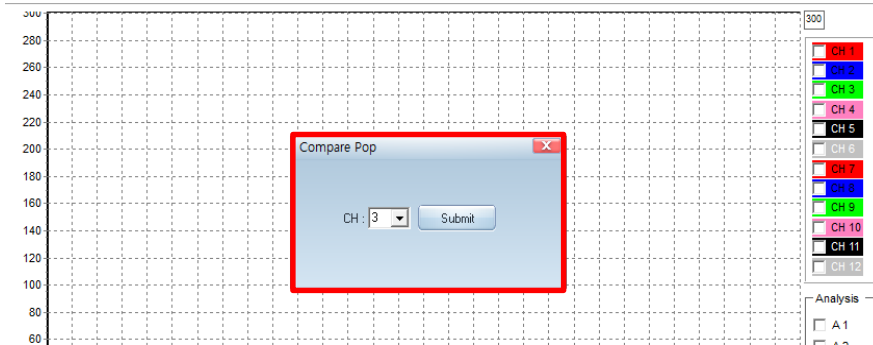
○ ProFile Compare



2. Double – Click on the cell to open the file search window as shown above
Load the file you want to compare

ProFile Compare

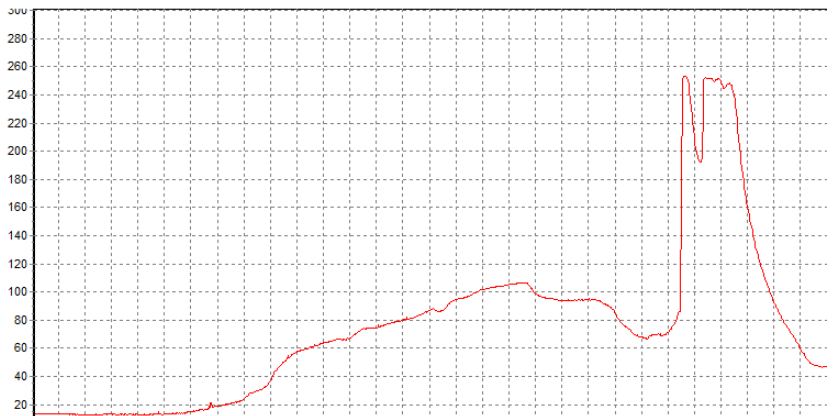
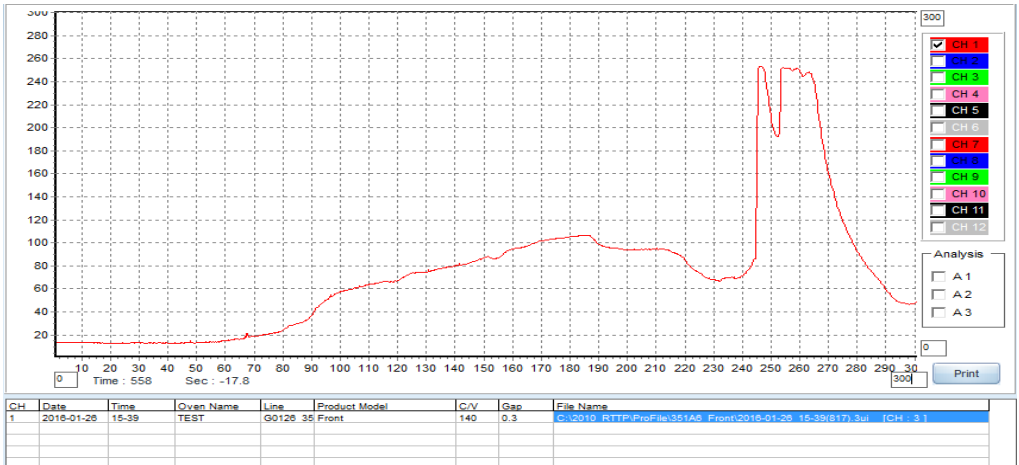
○ ProFile Compare



3. When you load the file you want to compare, you can select the desired channel from the loaded file as shown above.
After selecting the desired channel, click submit

ProFile Compare

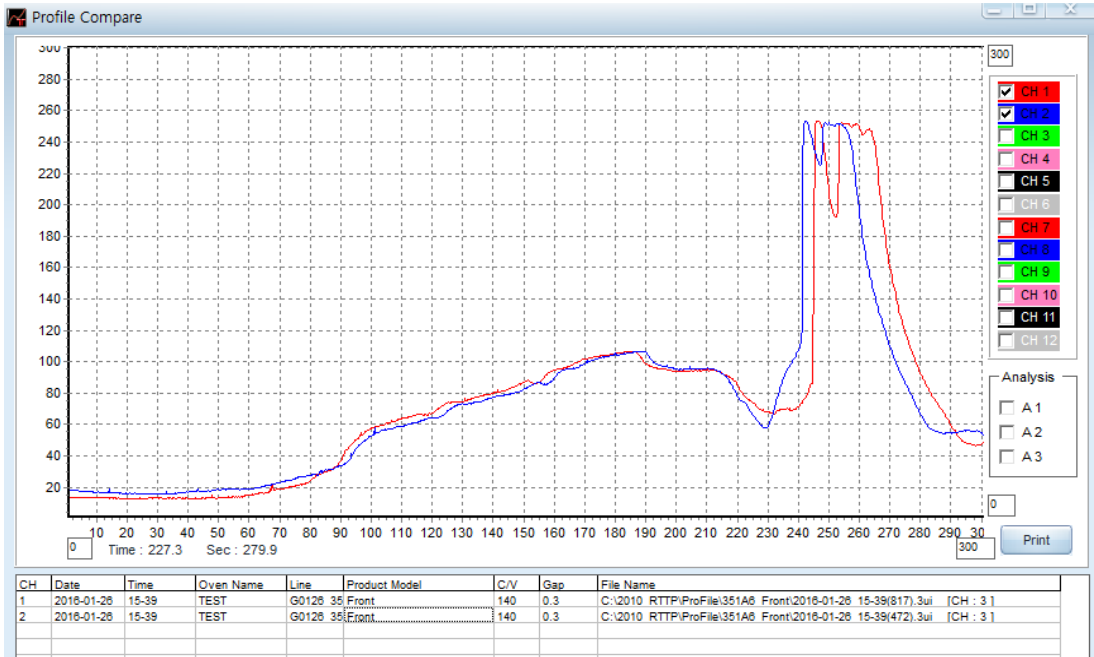
○ ProFile Compare



4. The desired channel data in the loaded file will be displayed as a graph

ProFile Compare

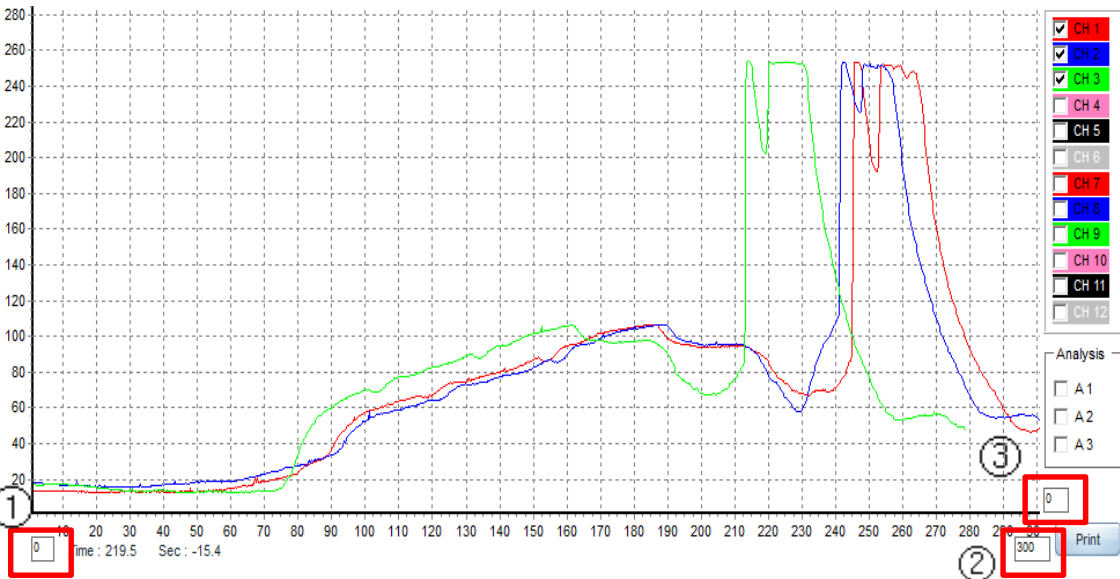
○ ProFile Compare



- By repeating the same operation by calling another data file to be compared in the second cell, you can compare and analyze channel – specific data in one view from different file

ProFile Compare

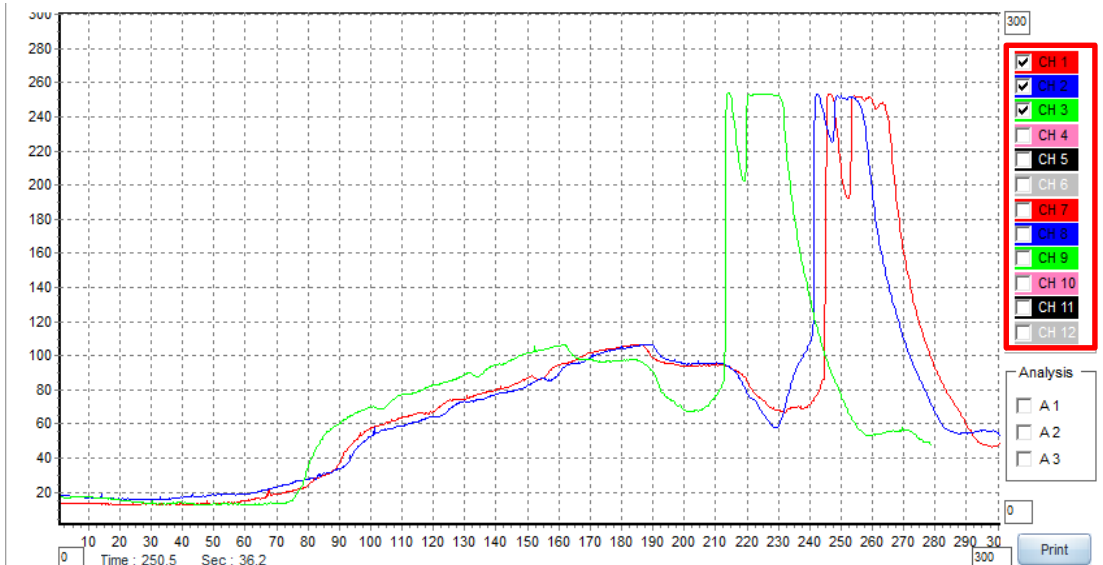
○ ProFile Compare



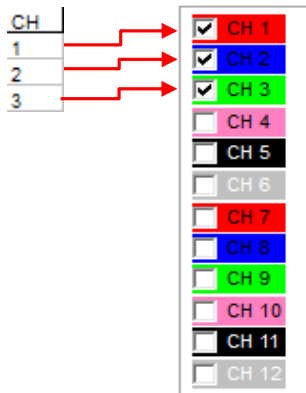
- ① : Delete front of graph Time
- ② : Delete back of graph Time
- ③ : X-axis range of the graph

ProFile Compare

○ ProFile Compare



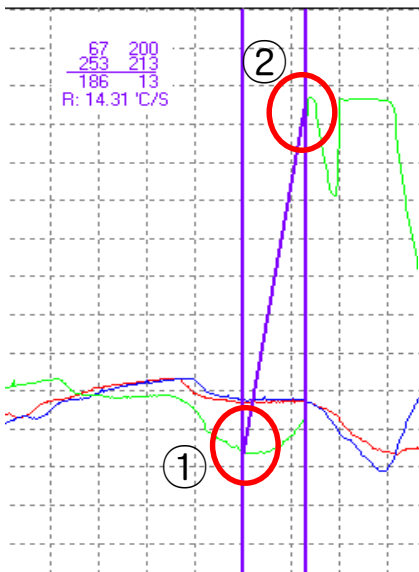
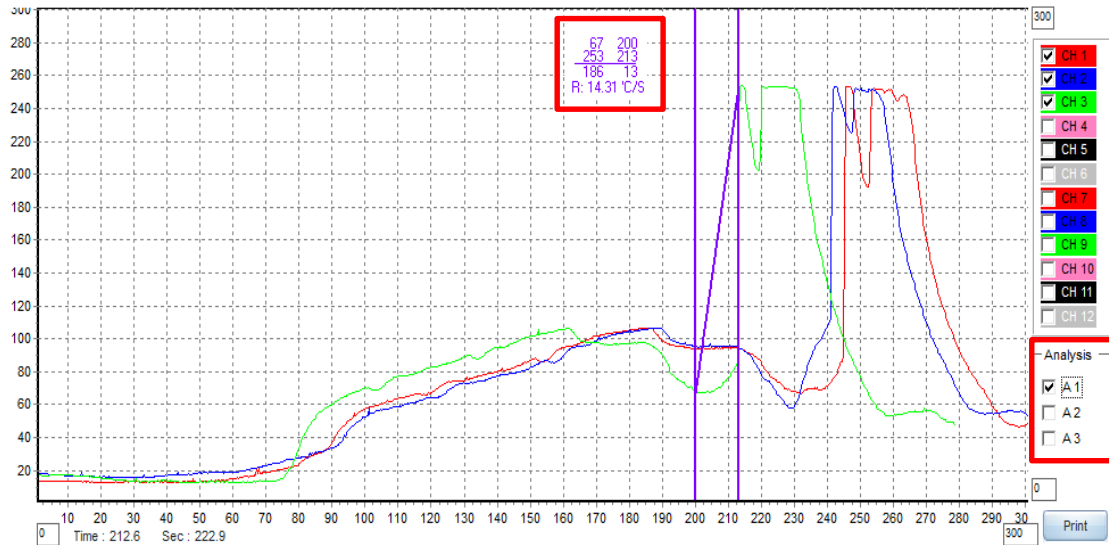
CH	Date	Time	Oven Name	Line	Product Model	C/V	Gap	File Name
1	2016-01-26	15-39	TEST	G0126 35	Front	140	0.3	C:\2010_RTTP\ProFile\351A6_Front\2016-01-26_15-39(817).3ui [CH : 3]
2	2016-01-26	15-39	TEST	G0126 35	Front	140	0.3	C:\2010_RTTP\ProFile\351A6_Front\2016-01-26_15-39(472).3ui [CH : 3]
3	2016-01-26	15-38	TEST	G0126 35	Front	140	0.3	C:\2010_RTTP\ProFile\351A6_Front\2016-01-26_15-38(782).3ui [CH : 3]



The loaded data can be turned on and off
Using the channel bar

ProFile Compare

○ ProFile Compare



Using the analysis function,
comparison of point 1 and point 2 is
possible

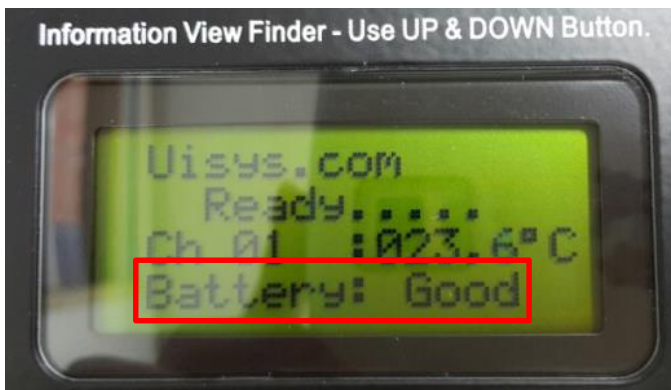
67 200 → Point ① (Temperature / Time)
253 213 → Point ② (Temperature / Time)
186 13
R: 14.31 °C/S
① and ② (Temperature
difference / Time difference)
Slope of ① and ②

Simple Profile Measurement Method

- Check charge status



The state of charge before use will fully charge the state



You can see the current battery status
Battery : Good, Please use

Simple Profile Measurement Method

○ Measure



1. Connect the sensor to A~F channels.
2. Push the power button to turn on the power
3. Push the ST/ED button and start measuring
4. After finishing measuring (After passing the reflow equipment), press the button again

※ Please check the measurement direction and battery condition before measuring

Simple Profile Measurement Method

○ Communicate



When the measurement is completed, connect the download cable



When the download cable is connected to the PC,
The message ----COMM---- is displayed on the
Screen as shown above

ProFile Compare

○ ProFile Compare



오븐 설정

오븐상세정보

오븐이름: UISYS
 라인 NO: No.1
 생산모델: UI-351A6

히터존수: 5
 쿨링존수: 1
 FAN종류: Hz
 컨베어: 140 cm/min

산소 PPM: 859
 담당자:

슬더링머신

슬더포트 위치: 5
 슬더포트: 1ST+2ND
 슬더포트 RPM1: 0
 슬더포트 RPM2: 0

프로파일통신설정

관속도: %
 온도: °C
 길이: mm

	IN	Z1	Z2	Z3	Z4	Z5	C1	OUT
모터속도	15	15	15	15	15	15	15	
상면온도	230	195	165	165	170	200	265	
하면온도	230	195	165	165	170	200	265	
모터속도	15	15	15	15	15	15	15	
구간길이	2500	650	650	650	650	650	1200	

파일저장 ☐ 길이편집 적용 닫기

Set the information for the oven in the oven setting menu (P.39~46)

ProFile Compare

○ ProFile Compare



웹이브머신 스펙세팅

순번 슬더바 이름 및 모델

1 FR1

PCB 상면 프리히터 60 ~ 120

PCB 하면 프리히터 80 ~ 120

슬더 최고온도 250 ~ 260

팁타임 사용 All

왼쪽 5 ~ 13

중앙 5 ~ 13

오른쪽 5 ~ 13

팁타임종류 1st+2nd

냉각구간

채널 Solder

엘타T 구간

온도:시작 240 종료 100

기울기:하한 -20 상한 -7

☐ 사용

실시간프로파일에 사용될 PwI의 최고값 900 %

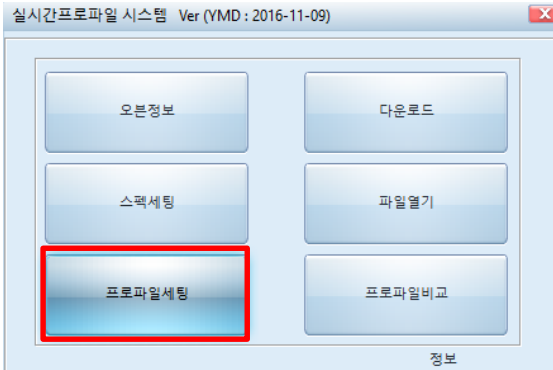
저장 닫기

순서	슬더바 이름	사용
1	FR1	ON
2	FR4	
3	FR4 JIG	
4	UI_4	
5		
6		
7		
8		
9		
10		

Set the spec setting in the spec setting menu (P.47~48)

ProFile Compare

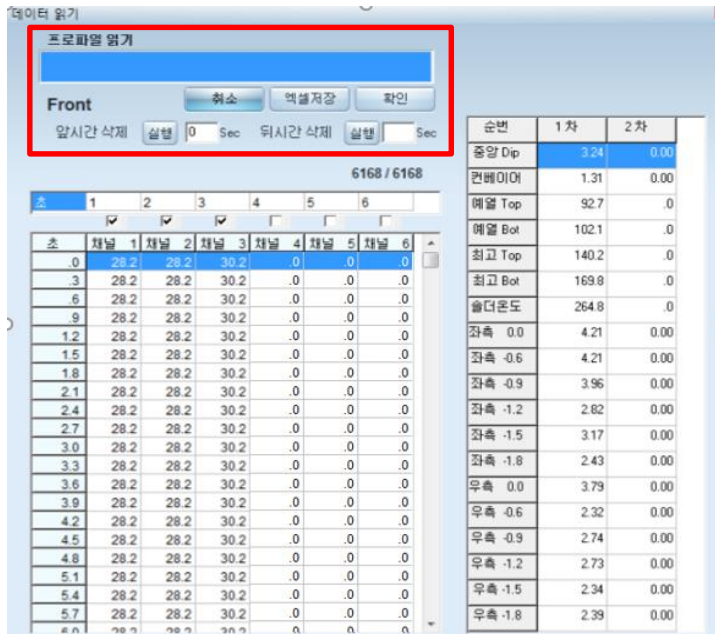
○ ProFile Compare



Set communication port in profile set menu (P.14~16)

ProFile Compare

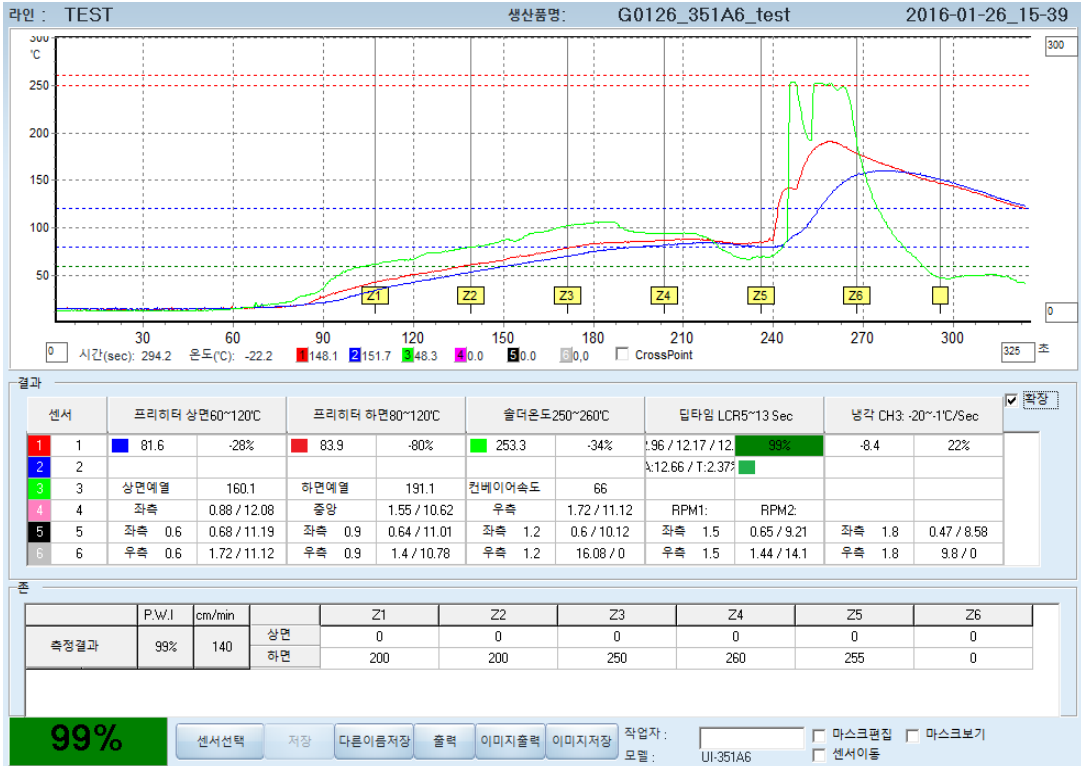
○ ProFile Compare



Download the measurement data in the ProFile Down Load menu
Press Submit button to go to Profile View (P.49~76)

ProFile Compare

○ ProFile Compare



You can check the information of the graph and measurement data in the Profile View

Spec Setting

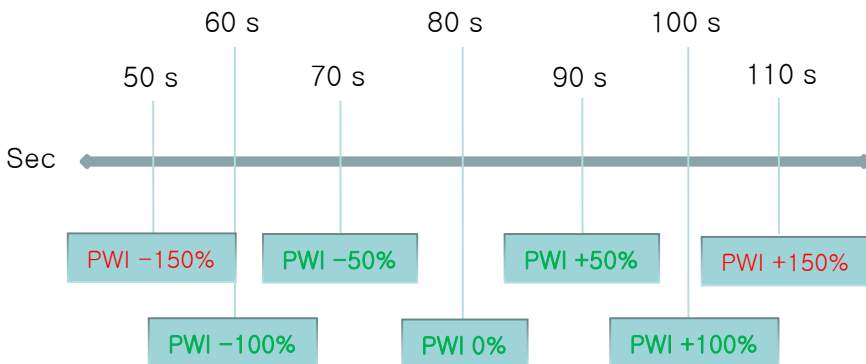
○ Reference

What is PWI?

It is a abbreviated word of Process Window Index, and indicates the dispersion of measured values on the standard spec information related to manufacturing.

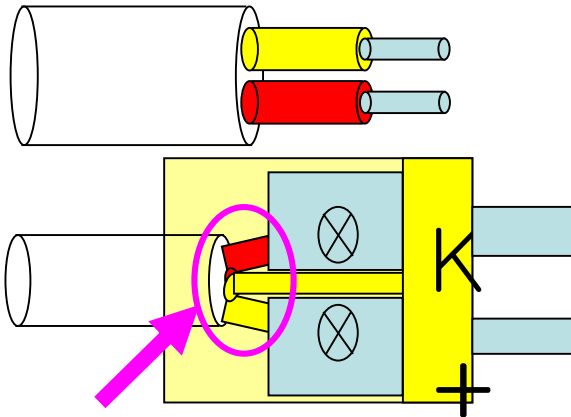
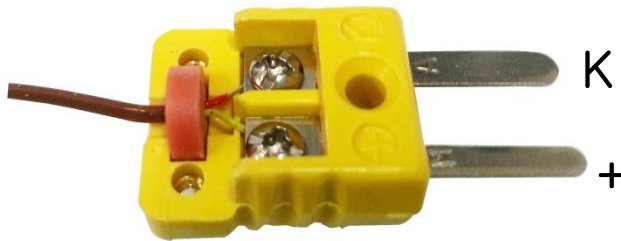
As shown in the following graph, it becomes closer to 0% when it is near the spec optimal value. If it goes near to the limit of spec, it gets closer to $\pm 100\%$. In case that it goes beyond $\pm 100\%$, it exceeds the spec. Therefore, we put emphasis on keeping the analyzed PWI points lower than $\pm 100\%$ when running this system.

If the spec conditions of preheat section are maintaining 150~200℃ and 60~100 seconds, the time measurement within the constant temperature scope becomes the standard so that the following PWI points can be earned.



In each specification, respective PWI is calculated and the most dangerous value among them will be observed by this system.

Sensor Assembly and Explanation



Be Cautious for Short

- In case that the thermocouple (temperature detector) is 'red/yellow', the red one is connected to 'K' and the yellow one is linked to '+' section.

※ Caution

- If the lines are separated from the coupling sections while measuring due to the improper connection during measurement, the temperature data is not transmitted.
- Two lines become short because the metal section of lines when assembling, the temperature data is not sent correctly.

Manufacturer : The logo for Uisys, featuring the word "Uisys" in a bold, blue, sans-serif font. Above the "i" in "sys", the words "user" and "interface" are stacked vertically in a smaller, blue, sans-serif font.

Made in Korea

Seller : UISYS Inc.

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Techno Part, Sameun ri, Jiksan eup,
Seobuk gu, Cheonan si, Chungnam
TEL) +82-41-589-0383~4
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<http://www.uisys.co.kr>

