

E6203x MAIN FIRMWARE RELEASE NOTES

Ishida Uni-8 Series PC-Based Scale

Procedure to Install Uni-8 Firmware

Refer to the *Uni-8 Installation Manual* for complete information.

1. Copy the scale firmware folder "Soft" onto an empty USB memory stick.
 - The "Soft" folder itself must not be zipped even if some files in the folder are.
 - The "Soft" folder should be the only data on the USB memory stick.
2. Power up the scale and press the green **ENTER** button at the Date/Time confirm screen.
3. Open the access panel on the left side of the scale and insert the USB memory stick into any of the four USB ports.
 - No other USB devices should be connected.
4. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
5. Press the **LOGIN** key (lower left).
6. Enter **495344** and press the **PLU** key to access hidden menu steps.
7. Press the **ADJUST** menu button.
8. Select **DOWNLOAD**.
9. Press the firmware version to be installed. It will be highlighted in yellow.
10. Press **EXEC** to confirm the selection.
11. Press **EXEC** to begin the firmware download.
12. The screen will show the firmware download progress. The download will take several minutes to complete.
13. When the Re-Boot Check message 15029-0002 is displayed, the firmware download is complete. The scale will automatically reboot.
14. Press the green **ENTER** button at the Date/Time confirm screen.
15. Press the **RETURN ARROW** key (upper right) to enter the Main menu. Then press the **LOGIN** key (lower left).
16. Enter **495344** and press the **PLU** key to access hidden menu steps.
17. Press the **ADJUST** menu button, then select **MEMORY CLEAR**.
18. Press **CLEAR** to ensure there is no unintended data resulting from the new firmware.
19. Press **EXEC** to confirm the memory clear.
20. Press the **RETURN ARROW** key (upper right) after the result of **OK** is displayed.
21. From the **ADJUST** menu select **DOWNLOAD**.
22. Press the **SUB APP** tab.
23. Press the program to be installed. It will be highlighted in yellow. Select only one Sub App program at a time.
24. Press **EXEC** to confirm the selection. Press **EXEC** to begin the firmware download.
25. The screen will show the firmware download progress. The download will take several minutes to complete.
26. When the Re-Boot Check message 15029-0002 is displayed the firmware, download is complete. The scale will automatically reboot.
27. Press the green **ENTER** button at the Date/Time confirm screen.
28. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
29. Press the **LOGIN** key (lower left).
30. Enter **495344** and press the **PLU** key to access hidden menu steps.
31. Repeat steps 21 ~ 27 to load any remaining Sub App programs.
32. Remove the USB memory stick.

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Version E6203F

Release Date: March 2024

Use with SLP-5 **2.62** or later ([strongly recommended](#) for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203E)

1. Corrected the markdown calculation for fixed price PLUs when initially programmed with Quantity greater than "1".

Version E6203E

Release Date: March 2024

Use with SLP-5 **2.62** or later ([strongly recommended](#) for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating to E6203E or later from E6203D or earlier, **calibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203D)

1. Fixed a bug where the Zero key had to be pressed twice to zero the weight due to excessive weight stability times.
2. Improved the print speed in Auto Print Mode that was slowed due to excessive weight stability times.
3. Fixed a bug where error 0710 "No Label" occurred when using continuous labels.

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4. Modified the markdown calculation for fixed price PLUs to change with the number of pieces.
5. Updated the Label Change images to GIF for the Uni-8 (function key 243: Change Label).
6. Enabled the Label No. button in the Label Spec menu to access numbers 2 to 7.
7. Changed to display the Subnet Mask, Default Gateway, and DNS Server values when IP Auto is enabled.
8. Changed the Error Log to sort by date by default.
9. Fixed a problem where the AD message text overlapped part of the tare title on the customer display.
10. Deleted the Browser function key. It is not supported.

Version E6203D

Release Date: November 2023

Use with SLP-5 **2.62** or later (strongly recommended for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203C)

1. Fixed a bug where the Time Zone could not be set (Adjust menu > Date Time).
2. Added the Ping to PC button to the IP Addr and WiFi tabs of Machine No. (Setup menu).
3. Fixed a bug where port numbers other than the default 55201 did not work.
4. Enabled "WPA PSK" and "WPA2 PSK" encryption options in the WiFi settings (Setup menu > Machine No. > WiFi tab).
5. Modified the markdown calculation for fixed price PLUs to change with the number of pieces.
6. Enable Back Feed for continuous labels (ADJUST menu > PRINTER > LABEL FEED tab > BACK FEED).
7. Modified to not print "0 lb" when the fixed bakery weight is less than 15 oz.
8. Changed to display video in the original ratio on the customer side display.
9. Modified to display the card savings amount below the first line of PLU description when Price Display is set as "Yes" (Setup menu > Frequent Shopper).
10. Modified the information displayed in the Error Log by the Log Level button. (Setup menu > Error Log).
 - a. ONLY ERR. -- display only error numbers under 3000
 - b. ERR. + OPE -- display all errors and operation

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11. Modified to display the PLU list by pressing either the PLU No. or PLU Name column in Campaign (Program menu).
12. Added a setting to control printing the Calculation Unit Price for Weigh & Fixed Price PLUs (Setup menu > Label Format > Print Control > Cal. U/P Print).
13. Added support to print the "\$" in font sizes 14 x 10, 24 x 18, and 56 x 24.
14. Modified to prevent access to the menus in self-serve mode by pressing the Return Arrow button.
15. Fixed the calculation for the Unit Price Gram (Print ID 351) label format field.
16. Added the specification for 0/5 rounding for Fixed Price PLUs. Example:
2.28 to 2.32 → 2.30
2.33 to 2.37 → 2.35
2.38 to 2.42 → 2.40

Version E6203C

Release Date: September 2023

Use with SLP-5 **2.62** or later ([strongly recommended](#) for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203B)

1. Added support for 60 lb multi-range weighing. Resolution is 0.01 lb from 0 to 30 lb and 0.02 from 30 to 60 lb.
2. Added support for 30 kg multi-range weighing. Resolution is 0.005 kg from 0 to 15 kg and 0.010 from 15 to 30 kg.

Version E6203B

Release Date: August 2023

Use with SLP-5 **2.62** or later ([strongly recommended](#) for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.

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Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203A)

1. Fixed a bug where the resistance value of the thermal head was displayed as 960 ohm when it was actually fixed at 1100 ohm.

Version E6203A

Release Date: June 2023

Use with SLP-5 **2.62** or later ([strongly recommended](#) for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203)

1. Increased the height of the numeric values on the customer display to 9.5mm per OIML certification requirements.
2. Added preset function keys.
 - a. 541: Power Off – same operation as Power Off button at the right side of the menus.
 - b. 542: Open Price – split key, displays the current PLU status, toggles to change setting.
3. Change the following to new Print ID numbers .
 - a. 290 → 350: Weight (lb to kg)
 - b. FA → 351: Unit Price Gram
 - c. FB → 352: Unit Price Gram Title

Version E6203

Release Date: April 2023

Use with SLP-5 **2.62** or later ([strongly recommended](#) for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

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NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [8.6.1921.3]

1. E6203 is the initial release of Uni-8 firmware. The firmware is based on Uni-9 C2249V.
2. Added a setting to select either LAN or WiFi enable. This is required because the wireless is built in the main CPU board. (Setup menu > Machine No. > IP Address tab > LAN/WiFi Enable).
3. Added an option to hide the WiFi encryption password in the Machine No. menu. The Password Mask setting is accessed as follows: Setup menu > Country > 495344 PLU > Detail > 951753 PLU > WiFi tab. **Caution:** with the password hidden, use Line Delete to remove the previous password.
4. Modified to print nutrition Serving per Container as "varied" when the value is 999 regardless of the PLU type. All other values print as entered.
5. Added a setting for the initial Save function key setting at power on. Options are On or Off (Setup menu > Operation Settings > Prod. tab > Save Default).
6. Added support to change the fixed bakery weight when the number of pieces is changed by the operator. If the bakery weight is manually changed after the number of pieces, the entered weight is used as the total weight.
7. Added a PLU File Management system to control if PLU data are overwritten during communication. Use PC Comm Setting to allow or block specific PLU fields (Setup menu). Use PLU Initial Data (setup menu) to set the value to populate any blocked field.
SLP Receive – Yes: receive data from PC (default), No: ignore data from PC
SLP Send* – Yes: send data to PC (default), No: do not send data to PC
CSIS Receive – Yes: receive data from Master (default), No: ignore data from Master
CSIS Send* – Yes: send data to Master (default), No: do not send data to Master
* When "No" is set no value will be sent to the PC or Master scale. The comma-delimited transmission will look like the following: 123,234,,AAA,5678 where ,, indicates a skipped data field.

PLU MASTER LIST	SLP RECEIVE	SLP SEND	CSIS RECEIVE	CSIS SEND
PACK DATE PRINT	YES/NO	YES/NO	YES/NO	YES/NO
PACK TIME PRINT	YES/NO	YES/NO	YES/NO	YES/NO
PACK TIME DATE	YES/NO	YES/NO	YES/NO	YES/NO
SELL BY DATE PRINT	YES/NO	YES/NO	YES/NO	YES/NO
SELL BY TIME PRINT	YES/NO	YES/NO	YES/NO	YES/NO
SHELF LIFE(days)	YES/NO	YES/NO	YES/NO	YES/NO
...	...	...	...	...
% TARE	YES/NO	YES/NO	YES/NO	YES/NO
SECOND TARE	YES/NO	YES/NO	YES/NO	YES/NO

IMPORTANT: If the PLU file is deleted from the scale and reloaded by ScaleLink Pro or third-party scale management software any blocked fields (SLP Receive = "Yes") will not be restored. The data can only be reprogrammed at the scale or reloading from a USB backup file. To allow download from the PC the .CSV file must be edited to receive the data and the firmware reloaded.

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8. Added support to display and print BIG5 Traditional Chinese characters.
 - a. Chinese characters can only be sent via SLP-5; they cannot be entered or edited at the Uni-8.
 - b. Added four Chinese OTF fonts. These also support English characters.
 - 40: Noto Serif (Chinese) Bold Full <OTF>
 - B0: Noto Serif (Chinese) Bold Half <OTF>
 - 41: Noto Sans (Chinese) Bold Full <OTF>
 - B1: Noto Sans (Chinese) Bold Half <OTF>
 - c. Chinese and English characters are printed at a fixed size based on the OTF font and the Font Height set in the text field of the label format. The size set in SLP-5 is not used. Testing suggests these settings work well:
 - PLU Description
 - Font Size: FA External Font Reference (FA)
 - Font Family: Noto Sans (Chinese) Bold Full (31)
 - Font Height: 1B
 - Font Type: No Attribution (00)
 - d. It is not necessary to set the code as "chinese " and enable Chinese fonts but it will eliminate the message "The description text contains characters that are not supported by the selected font."
 - e. Chinese and English characters can be mixed on the same line if a standard font size is used.
9. Added support to display and print Korean characters.
 - a. Korean characters can only be sent via SLP-5; they cannot be entered or edited at the Uni-8.
 - b. Added four Korean OTF fonts. These also support English characters.
 - 30: Nanum Gothic (Korean) Full <OTF>
 - A0: Nanum Gothic (Korean) Half <OTF>
 - 31: Noto Sans (Korean) Bold Full <OTF>
 - A1: Noto Sans (Korean) Bold Half <OTF>
 - c. Korean and English characters are printed at a fixed size based on the OTF font and the Font Height set in the text field of the label format. The size set in SLP-5 is not used. Testing suggests these settings work well:
 - PLU Description
 - Font Size: FA External Font Reference (FA)
 - Font Family: Nanum Gothic (Korean) Full (30)
 - Font Height: 1B
 - Font Type: Bold (02)
 - d. It is not necessary to set the code as "korean" and enable Korean fonts but it will eliminate the message "The description text contains characters that are not supported by the selected font."
 - e. Korean and English characters can be mixed on the same line if a standard font size is used.
10. Modified Case Weight PLUs to allow manual entry of the weight even if Open Price is set as "No".
11. Fixed a bug where printing position of True Type Font (TTF) characters was out of alignment.
12. Add support to print gram unit price.
 - a. FA: Unit Price Gram
 - b. FB: Unit Price Gram title

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13. Updated the Shop No. (21) function key to allow entry of a different store number. Entry values are 1 to 9999. Only valid store numbers can be entered. This is a permanent setting equivalent to setting the Set Store operation (Program menu > Store).
14. Added support for network connection error detection. This is similar to the standard comms check as it pings the "PC IP Address" and is performed based on the time set in "Comm Check Period". But if there is no connection a "SCALE IS OFFLINE" error is displayed. The default and recommended setting is "Disable" to avoid nuisance errors if the network is temporarily unavailable. (Setup menu > Machine No. > PC Comm tab > LAN Connect Check).
15. Increase the number of digits for Total Price and Unit Price to eight.
16. Added "Weight (lb to kg)" label format field (Print ID: 290). Depending on the decimal position either kg (3) or gram (0) values can be printed.
17. Added support to store communication logs for three days. Communication logs are stored with host systems internally. Expired logs are deleted and replaced when new logs are created.
 - a. File Name format: CYYMMDD.CSV
 - b. Data format: Time + Sent/Received + XX byte + received data format
18. Added support for QR Code.
 - a. Data in the QR code is configured in a custom barcode.
 - b. The size of the QR code increases based on the amount of data.
 - c. If the QR Code dimensions exceed the "Code Range" value (mm) it does not print. There is no error.
 - d. The QR Rate is a size multiplier. Typical values are 3 to 5 depending on the data.

Name	Detail	Initial Value
UNIT TYPE	QR CODE: REFERENCE	37
PRINT ID	CUSTOM BARCODE (QR): REFERENCE	77
X-AXIS	Able to set to X direction width by 0.1mm	0
Y-AXIS	Able to set to Y direction height by 0.1mm	0
PRINT FLAG	FF:Data top 0:NUM 1:E-NUM 2:BIN 3:KANJI	FF
QR RATE	Able to set 1-09 (dot/cell)	3
QR MODEL	00:MODEL1 01:MODEL2 02:MICRO QR	01
CORRUPT	00:7% 01:15% 02:25% 03:30%	01
CODE RANGE	Able to set 0-999 by 0.1mm(1width)	100
CUSTOM	CUSTOM BARCODE Master No.(0-99)	0