

C2225x CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES

WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale

The WM-Ai and IP-Ai require a different operating system to print and display Chinese BIG5 characters using C2225x firmware. Before installing the C2225x firmware, update the operating system.

- CAUTION** ❖ Once the C2178A operating system is installed it is not possible to reload the standard J0829E operating system.
- ❖ Always use the correct OS as specified in the firmware's "Related Programs".
- ❖ To revert to the standard J0829E operating system it is necessary to replace the CF SSD card.
- WM-Ai CF SSD: p/n 200241
 - WM-Ai-P CF SSD: p/n 171871
 - IP-Ai CF SSD: p/n 200242

Procedure to install Operating System C2178A

1. Copy the firmware folder "Patch" onto an empty USB memory stick.
 - The " Patch" folder itself must not be zipped even if some files in the folder are.
2. Power up the machine. On the wrapper press the yellow **RETURN** button at the 0322 Go Back to Original Position screen to return all mechanical components to their home position.
3. Press the green **ENTER** button at the Date/Time confirm screen.
4. WM-Ai: Remove the access panel located on the upper right side behind the display.
IP-Ai: Remove the plastic cover on the upper left.
5. Insert the USB memory stick into any of the four USB ports.
 - No other USB devices should be connected.
6. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
7. Enter **495344** and press the **PLU** key to access hidden menu steps.
8. Press the **ADJUST** menu button.
9. Select **DOWNLOAD**.
10. Select the operating system **patch C2178A** to be installed. It will be highlighted in yellow.
11. Press **EXEC** to confirm the selection.
12. Press **EXEC** at the *15036-0000 Database Version Is Different* message to continue.
13. Press **EXEC** at the *15017-0000 Check Execution...* message to begin the operating system patch download.
14. After 11 steps the "Loading" circle is displayed as the operating system patch loads. The download may take up to 10 minutes to complete.
15. When Re-Boot Check message 15029 is displayed, the download is complete.
16. WM-Ai: Follow the instructions on the screen to restart. Wait 60 seconds and switch on the power.
IP-Ai: The scale will automatically reboot.
17. On the wrapper press the yellow **RETURN** button at the 0322 Go Back to Original Position screen to return all mechanical components to their home position.
18. Press the green **ENTER** button at the Date/Time confirm screen.
19. When the normal screen starts, press the power button
20. When the confirmation dialog is displayed, press **EXECUTE**.
21. Confirm OS C2178A has been installed: Adjust menu > Firmware details.
22. Remove USB.

C2225x CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES

WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale

Procedure to install new WM-Ai / IP-Ai firmware. Refer to the appropriate *Service Manual* for additional information.

1. Copy the 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 must be the only data on the USB memory stick.
2. Power up the machine. On the wrapper press the yellow **RETURN** button at the 0322 Go Back to Original Position screen to return all mechanical components to their home position.
3. Press the green **ENTER** button at the Date/Time confirm screen.
4. WM-Ai: Remove the access panel located on the upper right side behind the display.
IP-Ai: Remove the plastic cover on the upper left.
5. Insert the USB memory stick into any of the four USB ports.
 - No other USB devices should be connected.
6. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
7. Enter **495344** and press the **PLU** key to access hidden menu steps.
8. Press the **ADJUST** menu button.
9. Select **DOWNLOAD**.
10. Select the firmware version to be installed. It will be highlighted in yellow.
11. Press **EXEC** to confirm the selection.

Note: If message 15036-0000 *Database Version Is Different* is displayed a memory clear will be required after installing the firmware. Press **STOP** and make a USB backup (Setup menu > File Save/Load) if necessary, otherwise press **EXEC** to continue.
12. Press **EXEC** to begin the firmware download.
13. The screen will show the firmware download progress. The download will take several minutes to complete.
14. When Re-Boot Check message 15029 is displayed, the firmware download is complete.
15. WM-Ai: Power off the wrapper. Wait 30 seconds and switch on the power.
IP-Ai: The scale will automatically reboot.
16. On the wrapper press the yellow **RETURN** button at the 0322 Go Back to Original Position screen to return all mechanical components to their home position.
17. Press the green **ENTER** button at the Date/Time confirm screen.
18. If prompted enter the Adjust menu and perform a Master Data memory clear. Then enter the Setup menu and load the backup from step 10.
19. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
20. Enter **495344** and press the **PLU** key to access hidden menu steps.
21. Press the **ADJUST** menu button, then select **DOWNLOAD**.
22. Press the **SUB APP** tab.
23. Select 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 may take several minutes to complete.
26. When Re-Boot Check message 15029 is displayed, the firmware download is complete.
27. WM-Ai: Power off the wrapper. Wait 60 seconds and switch on the power.
IP-Ai: The scale will automatically reboot.
28. On the wrapper press the yellow **RETURN** button at the 0322 Go Back to Original Position screen to return all mechanical components to their home position.
29. Press the green **ENTER** button at the Date/Time confirm screen.
30. Repeat steps 19 ~ 28 to load any remaining Sub App and Sub Boot programs as needed.
31. Remove the USB memory stick.

Note: Firmware C2225x does not support 2020 Nutrition.

C2225x CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES

WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale

Contents

Version C2225E.....	3
Version C2225D.....	4
Version C2225C.....	4
Version C2225B.....	5
Version C2225A.....	5
Version C2225	6

Version C2225E features & changes [January 2019]

Use with SLP-5 **2.30e** or later (**strongly recommended** for compatibility)

Note: This firmware does not support 2020 Nutrition data or Campaign selections for 16:U/P and 17:PRICE.

Related programs

Main: C2226D
Scale Driver: J0834 (J0835)
OS: C2178A
BIOS: J0825
FPGA App.: J0910B (J0824)
Keyboard: J0823B
Scale: J0776G or later
Wrap App.: C2006R (J0860A)
Camera App.: J0884D (J0846)
Printer App:
 WM-Ai: J0909F (J0827)
 IP-Ai: J0911A (J0827)
Pop Printer App.: J0949C (J0926) [J0935A] {WM-Ai-P only}

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), Pop Printer, Camera, and FPGA sub-app and sub-boot programs one at a time as needed.
2. If upgrading from C2225 or any other WM-Ai or IP-Ai firmware the Operating System must be updated to C2178A. See Procedure to install Operating System C2178A on page 2.



Caution

Memory initialization may be required when installing this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from any version of firmware **C2150x**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). **[8.5.0.1]**

The following lists the main changes from the previous version (C2225D)

1. Fixed a bug where large trays wrapped at low speed with a pop label would stop infeeding and wrapping.

C2225x CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale

Version C2225D features & changes [August 2018]

Use with SLP-5 **2.30e** or later (**strongly recommended** for compatibility)

Note: This firmware does not support 2020 Nutrition data or Campaign selections for 16:U/P and 17:PRICE.

Related programs

Main: C2226C
Scale Driver: J0834 (J0835)
OS: C2178A
BIOS: J0825
FPGA App.: J0910B (J0824)
Keyboard: J0823B
Scale: J0776G or later
Wrap App.: C2006R (J0860A)
Camera App.: J0884D (J0846)
Printer App:
 WM-Ai: J0909F (J0827)
 IP-Ai: J0911A (J0827)
Pop Printer App.: J0949C (J0926) [J0935A] {WM-Ai-P only}

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), Pop Printer, Camera, and FPGA sub-app and sub-boot programs one at a time as needed.
2. If upgrading from C2225 or any other WM-Ai or IP-Ai firmware the Operating System must be updated to C2178A. See Procedure to install Operating System C2178A on page 2.



Caution

Memory initialization **may be required** when installing this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from any version of firmware **C2150x**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). **[8.5.0.1]**

The following lists the main changes from the previous version (C2225C)

1. Fixed a bug where the main label applicator did not move when the Label Change button was pressed. This was due to confusion with the second main printer – that is not available in the USA.

Version C2225C features & changes [May 2018]

This version was not released for the USA as there were no relevant changes.

C2225x CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale

Version C2225B features & changes [March 2018]

Use with SLP-5 **2.30e** or later (**strongly recommended** for compatibility)

Note: This firmware does not support 2020 Nutrition data or Campaign selections for 16:U/P and 17:PRICE.

Related programs

Main: C2226B
Scale Driver: J0834 (J0835)
OS: C2178A
BIOS: J0825
FPGA App.: J0910B (J0824)
Keyboard: J0823B
Scale: J0776G or later
Wrap App.: **C2006R** (J0860A)
Camera App.: **J0884D** (J0846)
Printer App:
 WM-Ai: **J0909F** (J0827)
 IP-Ai: J0911A (J0827)
Pop Printer App.: J0949C (J0926) [J0935A] {WM-Ai-P only}

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), Pop Printer, Camera, and FPGA sub-app and sub-boot programs one at a time as needed.
2. If upgrading from C2225 or any other WM-Ai or IP-Ai firmware the Operating System must be updated to C2178A. See Procedure to install Operating System C2178A on page 2.



Caution

Memory initialization **may be required when installing this firmware version.** Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from any version of firmware **C2150x**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). **[8.5.0.1]**

The following lists the main changes from the previous version (C2225A)

1. Fixed a bug where a tray could be weighed and labelled even if it was outside the upper/lower weight check range. This could occur if the stable weight was received at the exact time the previous tray was being discharged.

Version C2225A features & changes [December 2016]

Use with SLP-5 **2.20f** or later (**strongly recommended** for compatibility)

Note: This firmware does not support 2020 Nutrition data or Campaign selections for 16:U/P and 17:PRICE.

Related programs

Main: C2226A
Scale Driver: J0834 (J0835)

C2225x CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES

WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale

OS: C2178A
BIOS: J0825
FPGA App.: J0910B (J0824)
Keyboard: J0823B
Scale: J0776G or later
Wrap App.: C2006K (J0860A)
Camera App.: J0884C (J0846)
Printer App:
 WM-Ai: J0909D (J0827)
 IP-Ai: J0911A (J0827)
Pop Printer App.: J0949C (J0926) [J0935A] {WM-Ai-P only}

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), Pop Printer, Camera, and FPGA sub-app and sub-boot programs one at a time as needed.
2. If upgrading from C2225 or any other WM-Ai or IP-Ai firmware the Operating System must be updated to C2178A. See Procedure to install Operating System C2178A on page 2.



Caution

Memory initialization may be required when installing this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from any version of firmware C2150x. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [8.5.0.1]

The following lists the main changes from the previous version (C2225)

1. Added the ability to print Kg weight converted from Lb weight. This is only supported for weighed items.
 - a. Conversion formula is 1 lb = 0.45359237 kg.
 - b. Converted Kg Print ID is 281 (641 in SLP-5).

Version C2225 features & changes [July 2016]

Use with SLP-5 2.20L or later (strongly recommended for compatibility)

Note: This firmware does not support 2020 Nutrition data or Campaign selections for 16:U/P and 17:PRICE.

Related programs

Main: C2226
Scale Driver: J0834 (J0835)
OS: C2178
BIOS: J0825
FPGA App.: J0910B (J0824)
Keyboard: J0823B
Scale: J0776G or later
Wrap App.: C2006J (J0860A)
Camera App.: J0884C (J0846)

C2225x CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES

WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale

Printer App:

WM-Ai: J0909D (J0827)

IP-Ai: J0911A (J0827)

Pop Printer App.: J0949B (J0926) [J0935A] {WM-Ai-P only}

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), Pop Printer, Camera, and FPGA sub-app and sub-boot programs one at a time as needed.
2. If upgrading from other WM-Ai or IP-Ai firmware to C2225 the Operating System must be updated to C2178. See Procedure to install Operating System C2178A on page 2.



Caution

Memory initialization is required when installing this firmware version.

Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from previous firmware. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). **[8.5.0.1]**

The following lists the main changes from the previous version (B0752S)

1. C2225 is based on global standard WM-Ai / IP-Ai firmware B0752S. Some features found in the C2150x firmware may not be available.
2. Added support to display and print Chinese BIG5 (Traditional) characters via OS C2178. If C2178 or later is not installed the Chinese BIG5 (Traditional) characters will not print or display.

Note: Chinese characters cannot be entered at the WM-Ai / IP-Ai. They must be entered using SLP-5 configured to support Chinese BIG5 and sent to the WM-Ai / IP-Ai.

3. Added the following external true type fonts for label printing. The fonts can be added in SLP-5 at the following location: Setup Utility > Label Format > WM-Ai / IP-Ai > Unit Properties Setup > Font Family.
 - 32: BIG5 <TTF> (At the WM/IP-Ai: 020)
 - 33: BIG5 BOLD <TTF> (At the WM/IP-Ai: 021)
 - 144: BIG5 HALF <TTF> (At the WM/IP-Ai: 090)
 - 145: BIG5 BOLD HALF <TTF> (At the WM/IP-Ai: 091)
4. To print the Chinese BIG5 fonts in the PLU description, use the following label format fields. See sample labels on the next page
 - a. Font Size: Ext. Font
 - b. Font Height: Set as needed. Typical values are 24~32 (18~20 at the WM/IP-Ai)
 - c. Font Family: Select from the list in step 3.
5. Chinese BIG5 characters are displayed in operation mode as 32: BIG5 <TTF> font.

C2225x CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES
WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale



Ext. Font, BIG5 Bold
 Font Height = 24 (SLP-5), 18 [Hex](Ai)

Ext. Font, BIG5 Bold
 Font Height = 32 (SLP-5), 20 [Hex] (Ai)

PREPACK / PLU 101 JUN.09.2020 (TUE) 3:43PM

CHINESE SAUSAGE 味全牌 白油腸							
TARE	lb	WEIGHT	lb	UNIT PRICE	\$/lb	TOTAL PRICE	\$
0.000		2.235		2.03		4.54	
MEMO	FORMAT 1		M PRICE		IMAGE 1		0
PACK DATE		SELL BY DATE		IMAGE 2		0	
JUN.09.2020		JUN.14.2020		EXTRA1		0	
PRICE	\$ 2.03	2	3	4	5	TRAY No.	
SYMB.						INGREDIENT	
TRAY						EXTRA3	
PRN MD.		TOTAL		FEED SPD		WP SPD	
AUTO		ADD		TRAY		CALC	
Capacity 0-15 lb x 0.005 lb		15-30 lb x 0.01 lb		RETURN		PEEL	

IP-Ai Screen with Chinese BIG5 Characters