

C2072 CHINESE BIG5 (TRADITIONAL) FIRMWARE RELEASE NOTES

Uni-7 Series with PK-260B CPU Board

Procedure to install new Uni-7 firmware. Refer to the *Uni-7 Setup Manual* for complete information.

1. Copy the Uni-7 scale firmware folder "Soft" onto an empty USB memory stick.
 - The folder and files must not be zipped.
 - The "Soft" folder must be the only data on the USB memory stick.
2. With the Uni-7 powered OFF raise the left side access panel.
3. Insert the Memory Stick in to the USB port.
DO NOT REMOVE the USB Memory Stick during the firmware update procedure.
4. Power up the Uni-7, press **ENTER** at the Date/Time confirm screen.
Note: Power up may take several minutes depending on the firmware version.
5. The upper display bar will be red indicating boot up from a USB Memory Stick.
Note: The scale will also be in "European" mode.
6. A warning message "Data Composition Is Different. Please Initialize the Memory" (0114-0000) may be displayed if the current and new firmware versions differ greatly. If this message appears press **OK** and skip to step 8.
7. Press the **MODE** key to enter the Main menu.
8. Enter **495344** and press the **PLU** key to access hidden menu steps.
9. Press the **ADJUST** menu button.
10. Scroll down and select **DOWNLOAD** (page 2/3).
11. At the DOWNLOAD (MAIN) screen press the **MAIN (ALL CLR)** button and press **EXECUTE**.
12. Press **EXEC** to begin clearing the Uni-7 Flash ROM memory.
13. After the flash ROM is cleared, the Uni-7 will return to the DOWNLOAD (MAIN) screen.
14. Press the **USB>MAIN (PRG+IMG)** button.
15. Press the firmware version to be installed. It will be highlighted.
16. Press **EXECUTE**.
17. Screen 15034-0000 "DATABASE VERSION IS DIFFERENT" may be displayed. Press **EXEC** to continue.
18. Press **EXEC** to begin the firmware download.
19. The screen will show the firmware download progress.
Note: The download may take a few minutes to begin and up to 20 minutes to complete. Data transfer may be confirmed by the flashing light on the USB memory stick.
20. When message 15029-0000 is displayed, the firmware download is complete -- power the scale off.
21. Remove the USB Memory Stick.

PK-260B CPU Board

Firmware C2072x is designed for the revised CPU board PK-260B. **This firmware is not compatible with the previous CPU board PK-260A.** And previous firmware (C1828x) is not compatible with the new PK-260B CPU board.

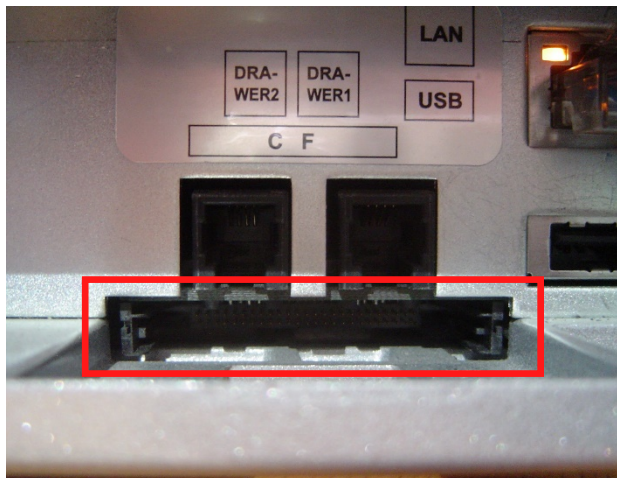
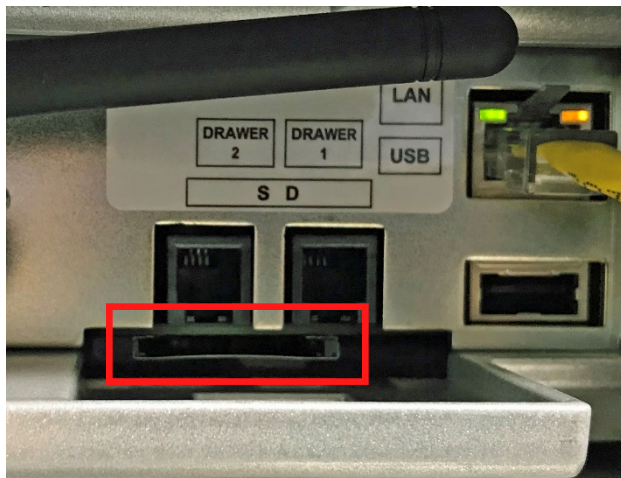
The two CPU board versions can be easily identified by the expansion memory card slot located on the left side of the Uni-7. See the images below.

SD Memory Cards

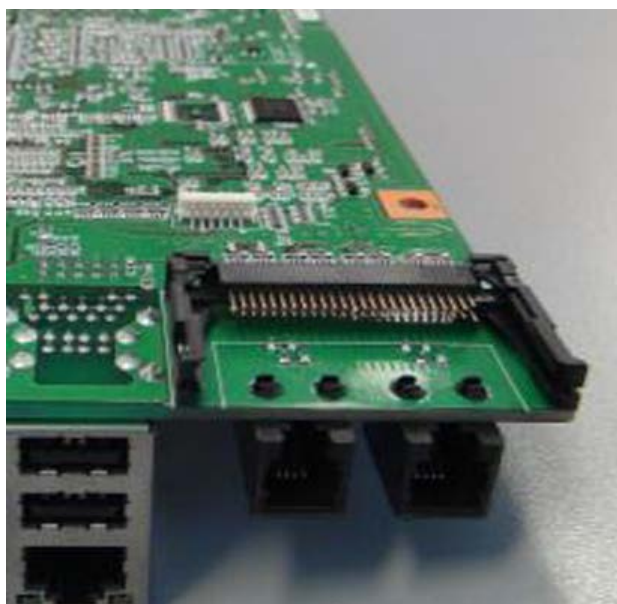
The new PK-260B CPU board supports SD memory card sizes 512MB, 1GB, and 2GB (p/n 174110). The maximum SD card memory that can be recognized is 2GB. A larger capacity SD card may be used but only 2GB will be available.

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Uni-7 Series with PK-260B CPU Board



PK-260B with SD Memory Card Slot



PK-260A with CF Memory Card Slot

Version C2072 features & changes [13 January 2016]

Use with SLP-5 **2.30** or later ([strongly recommended](#) for compatibility)
Use with SLP-V **3.05g** or later ([strongly recommended](#) for compatibility)

Related programs

OS: B0762B
BOOT ROM: B0763A
PRINTER1 FPGA: B0778 or later

[Firmware Database Structure Version: 2.17.2072.0]

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Uni-7 Series with PK-260B CPU Board



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 Maintenance Utility / SLP-5 or SLP-V i-Support / SLP-V to backup the scale before upgrading. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C1828).

1. This is the initial release of C2072 for the updated PK-260B CPU board.
2. New firmware C2072 is based on previous firmware C1828. Refer to the Release Notes for details for C1828 listed below.
3. Previous firmware for the original PK-260A CPU board will not be recognized or listed in the Firmware Download menu (Adjust menu > Download).
4. Data may be transferred from Uni-7 scales with previous firmware and CPU board by USB backup.
5. Added support for SD memory card available on new CPU board PK-260B.

**** REFERENCE: Uni-7 Chinese BIG5 Firmware C1828 ****

Version C1828 features & changes [19 July 2012]

Use with SLP-5 **2.30** or later ([strongly recommended](#) for compatibility)
Use with SLP-V **3.05g** or later ([strongly recommended](#) for compatibility)
[Firmware Database Structure Version: 2.17.0.0]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 Maintenance Utility / SLP-5 or SLP-V i-Support / SLP-V to backup the scale before upgrading. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version.

1. C1828 is based on standard Uni-7 firmware B0674G.
2. Added Chinese BIG5 (Traditional) character support.
Note: Chinese characters cannot be entered at the Uni-7. They must be entered using SLP-5 or SLP-V configured to support Chinese BIG5 and sent to the scale.
3. Enabled printing of Chinese BIG5 (Traditional) characters. Available font sizes are:
 - Large: 32x32 (0X0f)
 - Medium: 24x24 (0X0c)
 - Small: 16x16 (0x06)
4. Enabled PLU description display in ASCII (English) and Chinese BIG5.
 - a. The following display patterns are available.
 - Line1: ASCII Line2: ASCII
 - Line1: Chinese BIG5 Line2: Chinese BIG5
 - Line1: ASCII Line2: Chinese BIG5
 - Line1: Chinese BIG5 Line2: ASCII
 - b. English font size 30x15 (up to 17 characters per line) and font size 14x7 (18 or more characters per line) plus Chinese BIG5 font size 32x32 (up to 8 characters per line) and font size 32x16 (9 or more characters per line) are used for the item name display in operation mode.

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- c. When ASCII and Chinese BIG5 are mixed on one line, the Chinese BIG5 will not be shown.
- 5. Printing is also supported in the above patterns.
- 6. Added a LAN Connection setting to notify the operator if the last automatic Comm Check to the target PC did not receive a reply. A standard Ping command is used to verify the connection.
 - a. Setting is located at the Setup menu > Machine No. (Comms) > PC Comms tab > LAN Connect Check.
 - b. Options:
 - NO (default) – no check
 - YES – display an error each time a PLU is called if there was no connection
 - c. Error 9804-0000 SCALE IS OFFLINE, ETHERNET CABLE MAY NOT BE CONNECTED is displayed when any PLU is called if there was no response to the last automatic Comm Check.
 - d. The default time for the automatic Comm Check Period was reduced to 180 seconds.
 - e. The PC IP Address is the target address for the automatic Comm Check.

**** REFERENCE: Uni-7 Firmware Up to B0674G ****

Version B0674G features & changes [23 June 2011]

Use with SLP-V **3.04** or later (**strongly recommended** for compatibility)
[Firmware Database Structure Version: 2.17.0.0]



Caution

Memory initialization is required when upgrading to this firmware version.

Use i-Support and SLP-V to backup the scale before upgrading from firmware **B0674D** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear)

The following lists the main changes from the previous version (B0674F)

1. Modified numeric PLU Search operation (key #76). Enter the target PLU number and press the **PLU No.** (Search) function key. Operation is as follows:
 - a. Entered PLU number is highlighted on the list.
 - b. When the PLU number does not exist the next PLU is highlighted.
 - c. When the PLU number is larger than all PLUs the last item is highlighted.
 - d. When no PLU number is entered before pressing the **PLU No.** key the first page of PLUs is listed.
2. Modified operation of flashing Ad Messages. Reduced the "off" (blank) time for text and images by half.
3. Changed the default value for "Find PLU" to "All" (Setup menu, Operation Settings, Call tab).
4. Modified LABEL BATCH setup.
 - a. Added feature to list PLUs for selection by pressing "No.", "PLU No.", or "PLU NAME" fields.
 - b. Added Return Arrow to exit from selection list. A second press of Return Arrow returns to normal operation.
 - c. PLUs selected from the list are checked for proper sales mode. Only Fixed Price items are available to add to a batch.

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5. Changed the default value for "Fix Price Auto Print" to "No" (Setup menu, Operation Settings, Prod tab).
6. Fixed a bug where PLU Totals may not be deleted based on the scale's Sales Mode. Now both PLU production totals and PLU sales totals are deleted regardless of the Sales Mode.
7. Fixed a bug where the scale does not turn on when the number items in the Error Log reaches 1000. Changed the operation to limit storage to the most recent 500 items and automatically delete the oldest items from 501.

RECOVERY When the scale encounters this problem and cannot be turned on, either of the methods listed below can be used to recover.

A. Delete Error Log

1. Prepare a USB memory stick that includes only this firmware (B0674G).
2. Insert this USB memory stick in the scale when it is turned off.
3. Turn on the scale (USB boot mode).
4. Wait until the Date/Time confirmation screen appears.
5. Turn off the Uni-7 and remove the USB memory stick.
 - * With this procedure the scale can be turned on. Because this does not update the firmware a memory clear is not needed. When error log reaches to 1000 items again, however, the scale cannot be turned on. This same recovery method will be required again.

B. Firmware Update

1. Prepare a USB memory stick that includes only this firmware (B0674G).
2. Insert this USB memory stick in the scale when it is turned off.
3. Turn on the scale (USB boot mode).
4. Wait until the Date/Time confirmation screen appears.
5. Turn off the Uni-7 and remove the USB memory stick.
 - * With this procedure the scale can be turned on.
6. Turn on the scale and make a backup of the customer's data.
7. Update the firmware to B0674G.
 - * A firmware update requires a memory clear.

Version B0674F features & changes [28 April 2011]

Use with SLP-V **3.04** or later (**strongly recommended** for compatibility)

[Firmware Database Structure Version: 2.17.0.0]



Caution

Memory initialization may be required when upgrading to this firmware version.

Use i-Support and SLP-V to backup the scale before upgrading from firmware **B0674D** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear)

The following lists the main changes from the previous version (B0674E)

1. Added Database Compact (Vacuum) function to recover previously used memory. Without the Vacuum function the Remaining Memory amount may not be accurate as memory previously used by deleted items is not available.

Uni-7: On the Memory Clear page press 495344, PLU to reveal the Vacuum function key (located below the Exit [↵] key). If there is insufficient memory available to perform the compaction an error is displayed. See the Notes below.

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PC: Added Database Compact (Vacuum) command (3037) to the Uni-7 Comms Protocol. When the command is sent to the Uni-7 a message is displayed during compaction. The scale reboots when complete. If there is insufficient memory available to perform the compaction the Uni-7 returns an error code to the PC and displays an error. See the Notes below.

Notes: Database compaction requires an amount of free memory space equal to or greater than the database size. When there is insufficient available memory, refer to the options listed below.

- a) Backup the Uni-7 using SLP-V. Perform a RAM Clear. Delete unnecessary data in SLP-V and resend to the scale.
- b) Recognize the amount of remaining (available) memory is potentially inaccurate.

Version B0674E features & changes [5 April 2011]

Use with SLP-V **3.04** or later (**strongly recommended** for compatibility)
[Firmware Database Structure Version: 2.17.0.0]



Caution

Memory initialization is required when upgrading to this firmware version.

Use i-Support and SLP-V to backup the scale before upgrading to firmware **B0674E** or a later revision from firmware **B0674D** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear)

The following lists the main changes from the previous version (B0674D)

1. Adding the Font 10 x 5.
2. Expanded the Receipt Header / Footer properties. Do not reload previously saved Header / Footer settings as this will result in unrecognized data.
3. Modified calculation method of Amount Tendered as printed in the Daily Summary.

Ex.1) -----

TOTAL = \$145.00
Payment
CASH \$200.00
CHANGE \$55.00

In this case, \$145.00 is added in AMOUNT TENDERED.
[\$200.00 (acceptance) - \$55.00 (change) = \$145.00]

Ex.2) -----

TOTAL = \$100.00
Payment
CASH \$50.00
COUPON \$60.00
CHANGE \$10.00

In this case, \$40.00 is added in AMOUNT TENDERED.
[\$50.00 (acceptance) - \$10.00 (change) = \$40.00]

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Version B0674D features & changes [8 March 2011]

Use with SLP-V **3.03** or later ([strongly recommended](#) for compatibility)

[Firmware Database Structure Version: 2.16.0.0]



Caution

Memory initialization is required when upgrading to this firmware version.

Use i-Support and SLP-V to backup the scale before upgrading to firmware **B0674D** or a later revision from firmware **B0674C** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear)

The following lists the main changes from the previous version (B0674B)

1. Fixed a bug involving the method Time is saved. For example, the Error Log could record times such as [83:23]. This problem was created in the change from Empress to SQLite database version in firmware B0674.

Version B0674B features & changes [15 February 2011]

Use with SLP-V **3.03** or later ([strongly recommended](#) for compatibility)

[Firmware Database Structure Version: 2.15.0.0]



Caution

Memory initialization is required when upgrading to this firmware version.

Use i-Support and SLP-V to backup the scale before upgrading to firmware **B0674B** or a later revision from firmware **B0659G** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear)

The following lists the main changes from the previous version (B0674)

1. Added Price selection to Campaign. When Price is selected the PLU prints and displays the Campaign price with no markdown lines. Two selections are added: #16, U/P (for Weighed items) and #17, Price (for Fixed Price items). Only one selection is available based on the PLU Sales Mode.
2. Added a Print Quantity function key (#137 PRN QTY) to print multiple labels for Fixed Price items.
3. Increased Manual Weight entry from 30.00 Lb to 99.99 Lb when PLU is set for 3: FIX UPR Sales Mode (Case Weight). This feature is used to sell product by the case.
4. Fixed a bug where the list of Label Formats did not scroll properly when viewed from the Operation mode or in PLU Programming.
5. Fixed a problem where Campaigns sent from SLP-V were not received at the Uni-7. The Uni-7 showed an error when it received Campaigns.
6. Fixed a bug where the Uni-7 did not return to the main operation screen after printing multiple Fixed Price item labels.
7. Fixed a bug where items in Label Batch did not print.
8. Corrected a problem where communication was intermittent when the scale was set for Self-Serve mode.

Version B0674 features & changes [17 January 2011]

Use with SLP-V **3.03** or later ([strongly recommended](#) for compatibility)

[Firmware Database Structure Version: 2.15.0.0]

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Caution

Memory initialization is required when upgrading to this firmware version.

Use i-Support and SLP-V to backup the scale before upgrading to firmware **B0674** or a later revision from firmware **B0659G** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear)

The following lists the main changes from the previous version (B0659G)

1. Modified configuration for Continuous labels to expand rather than contract. The Uni-7 continuous label operation is now similar to other Ishida models.
 - a. Added Cassette settings (Setup menu) to specify if the text areas are variable or fixed: PLU Name, Extra Messages #1, #2, and #3. Selecting "Variable" will expand the field to fit the text while "Fixed" will not.

IMPORTANT NOTES:

 - i. The default setting is "Fixed".
 - ii. The "Fixed" and "Variable" settings have no effect on die-cut labels.
 - iii. When using Continuous labels these settings are normally set as "Variable".
 - iv. Text fields PLU Name and Extra Messages #1, #2, and #3 should be set at a small height such as 5.0mm in the label format. The fields will not print smaller than the height defined in the label format.
 - v. If "Fixed" settings are used with Continuous labels the label will print at a fixed length based on the height of the text fields as defined in the label format.
 - vi. An error will occur if "Fixed" settings are used with Continuous labels and the text field contains more lines than the label format allows.
 - vii. The Coupon Message and Free Messages always print as fixed size fields.
 - b. Added Cassette settings for Images (Setup menu) to specify printing when an image is not present: Safe Handling, Images #1, #2, and #3. Selecting "Variable" will compress the image area while "Fixed" will maintain the blank area. Also, the height of the image field must be specified in pixels.

IMPORTANT NOTES:

 - i. The default setting is "Fixed".
 - ii. The "Fixed" and "Variable" settings have no effect on die-cut labels.
 - iii. The "Variable" selection is only needed when some labels will be printed without an image.
 - iv. The settings for "Height of SHI", "Height of Image 1", "Height of Image 2", and "Height of Image 3" designate the distance (in pixels) the label will compress when the Image is not printed.
 - v. Do not specify the Height to compress if an Image field is located next to another field (left & right). This will result in an error.
2. Added a selection for Auto Print Label Format. This label format is used when the print mode is set as Auto (Pre-Pack). [System Menu, Cassette, "FMT No.(A)"] and [Program Menu, PLU File, Print tab, "FIRST LABEL FORMAT No.(A)"].

Priority level of Auto Label Format No.

 - 1: Function key -- temporary Label Format No. change by the operator
 - 2: PLU setting
 - 3: Cassette setting

NOTES:

- The Auto Print Label Format is supported for continuous label and if the die-cut labels are the same length for both Manual and Auto formats.
- For Manual printing the existing Label Format No. is used.
- If the Auto Label Format No. is not set the existing Label Format No. is used.

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- If only the Auto Label Format No. is set in the PLU it is used for both Auto and Manual printing.
 - The Second Label Format remains the same for Auto or Manual print modes.
3. Modified operation of Zero key to not clear the tare weight. The Zero only resets the weight to zero and has no effect on any tare value.
 4. Changed print operation for unstable weight. If the weight is unstable the PRINT key is accepted but printing does not occur until the weight stabilizes. An error beep sounds indicating the weight is unstable. Previously the PRINT key was rejected for unstable weights.
 5. Changed default Store Name from 9998 to 9999 for consistency with other Ishida scales.
 6. Added a "PRICE 0" function key. Pressing the "PRICE 0" key before printing a label will remove price values from the label (Unit Price, Piece Price, and Total Price). This is a temporary function that resets after each label or label batch in Pre-Pack operation.
 7. Modified PLU Name display in operation mode from left justified to centered when the name is more than 21 characters.
 8. Modified Auto PLU Call operation. Moved the configuration to Setup menu, Operation Settings, page 2, Auto PLU tab. Added a delay timer that resets after each key stroke. Available time is 0 to 3000 msec (0 to 3 seconds). Default time is 700 msec (0.7 seconds)
 9. Enhanced Self-Serve numeric keyboard layout.
 - a. Added a selection for a PC keyboard layout (top row: [7][8][9]) or phone layout (top row: [1][2][3]).
 - b. Image 990, if present, is used for the "OK" key. An image size of 63x48 is adequate.
 10. Added multiplication function to Self-Serve operation.
 - a. If a numeric value is entered after a Fixed Price item is called, it will print as the number of pieces.
 - b. The CANCEL key first clears any numeric entry then clears the PLU called.
 - c. Image 997, if present, is used for the "OK" key on the Fixed Price PLU screen. An image size of 63x48 is adequate.
 11. Enabled transfer of Hourly Sales Totals by PC. Previously Hourly Production Totals were incorrectly sent.
 12. Changed operation to delete Sub-Total accumulations when a Total label is issued. Previously the Sub-Total was not cleared.
 13. Changed database from Empress to SQLite.

Version B0659G features & changes [23 October 2010]

Use with SLP-V **3.02a** or later

[Firmware Database Structure Version: 2.14.0.0]



Caution

Memory initialization is required when upgrading to this firmware version.

Use i-Support and SLP-V to backup the scale before upgrading to firmware **B0659G** or a later revision from firmware **C1711** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear)

The following lists the main changes from the previous version (C1711)

1. Modified to show standard PLU numeric information on the customer side display when a PLU is called up in Auto Print (PrePack) mode. Previously, Ad Messages were displayed. When the PLU is cleared (0, PLU) the Ad Messages will resume.
2. Fixed a problem where the Ad Message text was shown as pixels.

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3. Added Spanish and German to the language selection list. Setting is located in the Setup menu, Country. Reboot the scale for this setting change to take effect.
4. Modified PLU Name display in operation mode to use smaller a character size when the name includes more characters. Three sizes are used based on the number of characters per line of PLU Name.
5. Added a Screen Saver mode which is used in place of standard Ad Messages. The Screen Saver is configured in Program Menu, Ad Messages. Press the "Ad Msg Control" button. Enable the Screen Saver and set the start time after a PLU has cleared. Image number 998 is displayed.
6. Added 0 to 9, 00, and CLEAR function keys to allow the touchscreen to be configured as a 10-key. This feature is suitable for stores that call all items by PLU number rather than Categories and PLU Presets. The touch panel has better response compared to the membrane keyboard.
7. Added a Standby Mode setting to dim the displays when the scale is not in use. Setting is located in the Setup menu, Standby Mode. The displays will dim after the scale has set unused for the time value set in Start Timer (seconds). Default is five minutes. Start Time and End Times must be set to enable the feature. The purpose of Standby Mode is to discourage tampering with unattended scales. There is no appreciable energy savings.
8. Modified the Unit Price field to accept a six-digit value.
9. Added a new Sales Mode: "CR Each Subtotal". With this Sales Mode each item is individually labeled and then a total label is printed. The total label would be placed on the outside of the bag for the POS system to scan at checkout. Setting is located in the Setup menu, Sales Mode.
10. Added a Clear key to the Preset Key programming. The purpose is to quickly delete the contents of all the keys on a preset page instead of deleting one-by-one. Two function keys are available:
Clear -- deletes all the preset keys on the selected preset key page. The blank page remains.
Delete -- deletes the selected preset key page.
11. Moved Tax settings from Programming menu to Setup menu.
12. Added an Auto-Print Timer setting for Self-Serve mode. Set the time after the package weight has stabilized to print the label. Setting is located in the Setup menu, Operation Setting, Self tab. Time is entered in milliseconds to auto-print the label. Example: 500 = 0.5 seconds.
Notes: Five seconds (5000) is the maximum delay.
The Self-Serve Print Mode must be set to "Auto". (Setup menu, Operation Setting, Self tab)
13. Added Operator Log In / Log Out. With the Operator Log In / Log Out function enabled, the scale only Operators who are logged can print labels. If a logged out Operator key is pressed an error beep sounds. In normal operation mode, press the Log In/Out function key. Select an Operator, enter the password, select Log In or Log Out, then press EXEC. The Operator Log In / Log Out setting is located in the Setup menu, Operation Setting, page right, Log tab. A function key must be added to the Uni-7 main screen: 132. LOG IN/OUT. When Log In is enabled a four-digit password is programmed for each Operator (Program menu, Operators).