Avery Weigh-Tronix

Scales for Agribusiness

i60 Serial Processor

iForeman

Compatible

User Instructions

AWT35-501409
Issue AA

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1 General Information and Warnings

1.1 About this Manual

This manual is divided into chapters by the chapter number and the large text at the top of a page. Subsections are labeled as shown by the 1 and 1.1 headings shown above. The names of the chapter and the next subsection level appear at the top of alternating pages of the manual to remind you of where you are in the manual. The manual name and page numbers appear at the bottom of the pages.

The following sections will give you a quick reference for use of the iForeman iOS application and setup.

1.1.1 Text Conventions

Words in **BOLD** represent buttons or keys within the app. (**Tare**)
Words in ***Bold & Italic*** represent the selected tab. (***Display)***

1.1.2 Special Messages

Examples of special messages you will see in this manual are defined below. The signal words have specific meanings to alert you to additional information or the relative level of hazard.

CAUTION!
This is a Caution symbol.
Cautions give information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

1.1.3 Safe Handling of Equipment with Batteries

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

1.2 Installation

CAUTION!
NO USER SERVICEABLE PARTS. REFER TO QUALIFIED SERVICE PERSONNEL FOR SERVICE.

1.3 Declaration of Conformity

Avery Weigh-Tronix

Foundry Lane, Smethwick, West Midlands B66 2LP, England

CE

Declaration of Conformity | **Konformitätserklärung**
Verklaring van Overeenstemming | **Dichiarazione di conformità**
Déclaration de Conformité | **Declaración de Conformidad**

Manufacturer	Avery Weigh-Tronix
Type	i60
corresponds to the requirements of the following EC directives:	
EMC Directive	2004/108/EC
Low Voltage Directive	2006/95/EC
The applicable harmonised standards are:	
EN 60950–1 : 2006 +A2:2013	EN55022:2006+A1:2007 EN55024:2010

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West Midlands, B66 2LP, England

Reg. Office: Admiral House, St Leonards Road,
Berkshire SL4 3BL, England
Registered in England No. 00559693

Fabrikant	Avery Weigh-Tronix
Type	i60
is in overeenstemming met de voorschriften van de volgende EG richtlijnen:	
EMC Richtlijn	2004/108/EG
Laagspanningsrichtlijn	2006/95/EG
Toegepaste geharmoniseerde normen:	
EN 60950–1 : 2006 +A2:2013	EN55022:2006+A1:2007 EN55024:2010

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Registered in England No. 00559693

Fabricant	Avery Weigh-Tronix
Type	i60
correspond aux exigences des directives CE suivantes :	
Directive CEM	2004/108/CE
Directive Basse Tension	2006/95/CE
Les normes harmonisées applicables sont :	
EN 60950–1 : 2006 +A2:2013	EN55022:2006+A1:2007 EN55024:2010

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Hersteller	Avery Weigh-Tronix
Typ	i60
entspricht den Anforderungen folgender EG–Richtlinien:	
EMV-Richtlinie	2004/108/EG
Niederspannungs Richtlinie	2006/95/EG
Die angewendeten harmonisierten Normen sind:	
EN 60950–1 : 2006 +A2:2013	EN55022:2006+A1:2007 EN55024:2010

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Registered in England No. 00559693

Produttore	Avery Weigh-Tronix
Modello	i60
è conforme alle caratteristiche previste dalle seguenti direttive CE:	
Normativa EMC	2004/108/CE
Normativa per la bassa tensione	2006/95/CE
Le norme standard armonizzate e nazionali applicate sono:	
EN 60950–1 : 2006 +A2:2013	EN55022:2006+A1:2007 EN55024:2010

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Fabricante	Avery Weigh-Tronix
Tipo	i60
conforme a las exigencias de las siguientes directivas CE:	
Directiva CME	2004/108/CE
Directiva de baja tensión	2006/95/CE
Las normas armonizadas en vigor son:	
EN 60950–1 : 2006 +A2:2013	EN55022:2006+A1:2007 EN55024:2010

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Signature/Name Handtekening/Naam Signature/Nom Unterschrift/Name Firma/Nome Firma/Nombre	K. Detert Global Head of R&D	Authorised signatory for Avery Weigh-Tronix Namens van Avery Weigh-Tronix Signataire autorisé d'Avery Weigh-Tronix Unterschriftsberechtigter für Avery Weigh-Tronix Firmatorio autorizzato per Avery Weigh-Tronix Firmante autorizado para Avery Weigh-Tronix	27 October 2014	Date Datum Date Datum Data Fecha

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2 Installation

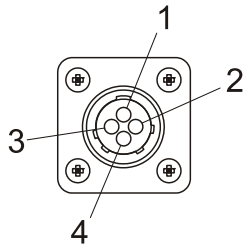
2.1 i60 Device Installation

Your i60 device (serial processor box) is built to withstand rugged outdoor conditions, and can be mounted directly to your grain cart.

Fasten the i60 device to a location high-up at the front end of the cart with the connector end of the device downward.

2.1.1 Connecting to a Junction Box

The i60 has a 4-pin Amp female connector. Connect the i60 to the junction box using a interface cable that has a 4-pin Amp male connector.

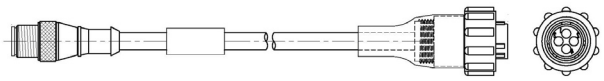
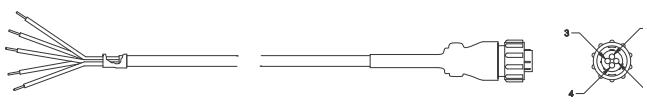


Scale Connector

Pin	Description
1	+ Excitation
2	Signal
3	Signal
4	- Excitation

Figure 1 i60 Connector

The following are examples of Avery Weigh-Tronix interface cables that will work with the i60 Serial Processor.

Part Number	Description	Drawing
49830-0011	17 ft / 5.2 m interface cable (4-pin Amp to 5-pin AWT) for 5-pin AWT J-boxes when connecting to 4-pin Amp indicator	
AWT25-501079	30 ft / 9.2 m 4-pin Amp to 5-pin Male EzMate connector	
50613-0012	15 ft / 4.6 m interface cable (4-pin Amp to tinned leads) for tinned lead J-boxes **Wiring layout** 1 GREEN + EXC 2 RED - Signal 3 WHITE + Signal 4 BLACK - EXC	

2.1.2 Battery Installation

The i60 device requires one 3.6V AA lithium primary cell battery (P/N AWT05-508275). Remove the four screws from the top and take off the top of the device. Insert the battery and be sure to observe the polarity shown on the battery clip. We recommend replacing the battery at the beginning of each harvest season (if a graincart has five or more weigh bars, it is a good idea to replace the battery half way through harvest).

See your Avery Weigh-Tronix dealer for replacement batteries.

Finally, replace the device lid after installing the battery, tightening the screws to eliminate any gap at the ends of the lid; note that it is normal for the lid to bow slightly at the center.

2.1.3 Battery Voltage

On the device screen below the Firmware version is the current battery voltage for the paired i60. The i60 requires 3.3 volts to operate. If the voltage reads 3.4 replace the battery.

2.2 Compatible IOS Devices

iForeman is compatible with the following iOS devices:

The iPad generation 3 or later, the iPad mini, and the iPhone 4S or later.

2.3 Pair the i60 with a Mobile Device

Before getting started, the i60 device must be paired to the app (instructions in this section), and then configured (see section 2.4).

The iForeman app can be downloaded from the App Store by searching for “iForeman”.

Pairing your i60 device to the mobile device is done directly through the i Foreman app settings and NOT through your general smartphone / tablet settings.

1. Enable Bluetooth on your mobile device.
2. Temporarily bring your mobile device to within 30’ (9.14 m) of the i60 device and launch the iForeman app. The app can be downloaded from the App Store by searching for “iForeman”.
3. Select the ***Settings*** tab inside the iForeman app and ensure “Remote Mode” is set to OFF.

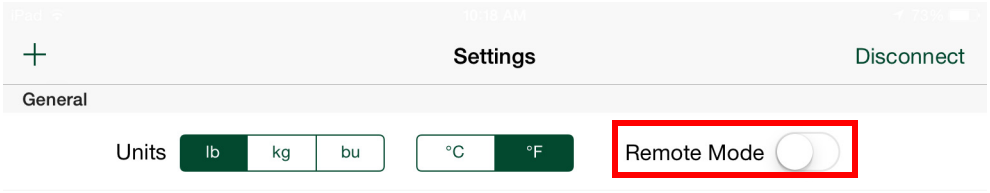


Figure 2.1 Remote Mode

4. Tap (**+**) to add your new i60 device to the app, and wait for the scan to Finish.

5. Once successfully paired, type a name to identify the grain cart the i60 is mounted to.

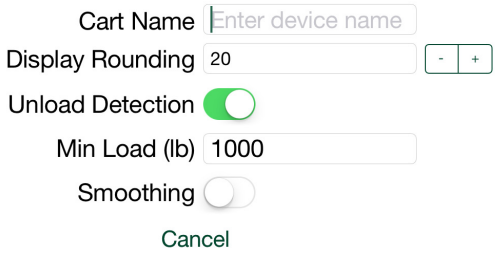


Figure 2.2 Enter Cart Name

2.3.1 Troubleshoot Pairing

If you have problems connecting to the i60 device, ensure each of the following:

- Check that Bluetooth is enabled in your mobile/tablet settings.
- Check that 3.6V lithium battery is properly inserted in your i60 device.
- Check that lithium battery is producing minimum of 3.4V (Refer to section 2.1.3)
- Check that there are no other mobile devices connected to the i60 device.
- Remote mode is set to OFF in the iForeman app settings.

If pairing problems persist, try each of the following:

- In your tablet/smart phone turn Bluetooth off then on.
- Restart your mobile device.

2.4 Configure Weigh Bars / Loadcells

Once paired, the i60 device must be configured. All weigh bars installed on the grain cart MUST have identical ratios of sensitivity to capacity (sensitivity/capacity). This is true if all bars are of the same model and should be checked otherwise.

Table 2.1 Weigh Bar Sensitivity and Capacity

Cal. Size	No. of Bars	Sensitivity (mV/V)	Rated Capacity
2 1/4 Dual	3	1.300	120000
2 1/4 Dual	5	1.300	150000
2 1/4 Dual	6	1.300	180000
2 1/4 Dual	8	1.300	240000
CC-50(2.5 mv/v @ 50K)	3	2.500	150000
CC-50 (pivot Design)	3	1.250	150000

1. Select the ***Device*** tab and enter the sensitivity of any one bar into the **Sensitivity Field**. Refer to Table 2.1 for grain carts with Avery Weigh-Tronix weigh bars.

2. Enter the capacity of the selected bar multiplied by the TOTAL number of bars on the grain cart into the **Rated Capacity** field (refer to Figure 2.3). Reference Table 2.1 for grain carts with Avery Weigh-Tronix weigh bars.

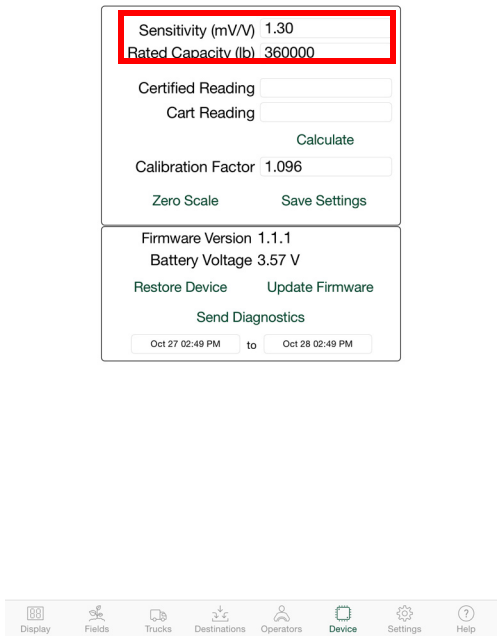


Figure 2.3 Enter Sensitivity and Rated Capacity

3. Press **Save Settings** to store the values in the i60 device.

3 Calibration

Once configured, the i60 device must be calibrated to ensure measurement accuracy.

1. Select the ***Device*** tab.
2. Ensure your cart is empty and press **Zero Scale**.

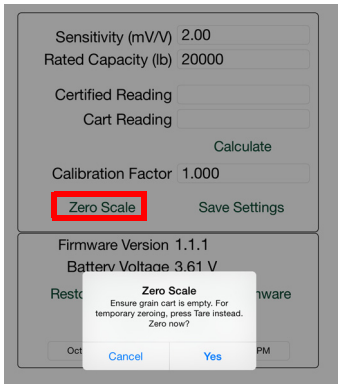


Figure 3.1 Zero Scale

3. Load the cart.
4. Select the ***Display*** tab and record the displayed weight.
5. Go back to the ***Device*** tab.
6. Enter the displayed weight under **Cart Reading** and press **Next**.

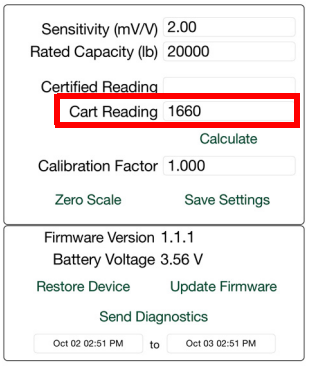


Figure 3.2 Enter Cart Reading

7. Unload the cart into an empty truck and weigh the load at a trusted scale.

8. Enter the weight reading from the trusted scale in the **Certified Reading** category.

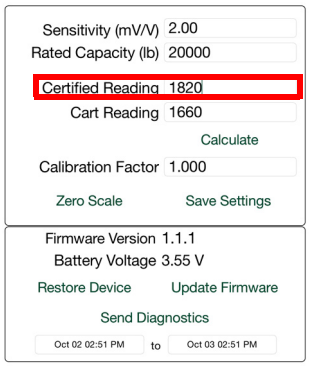


Figure 3.3 Enter Certified Reading

9. Press **Calculate** to compute a new “Calibration Factor”.

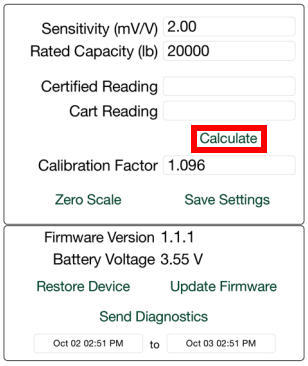


Figure 3.4 Calculate Calibration Factor

10. Press **Save Settings** to store the calibration settings in the i60 device.

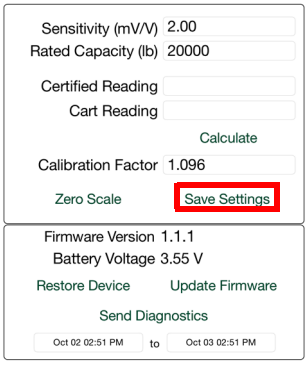


Figure 3.5 Save Settings

4 Unload Procedure

4.1 Unload Grain Cart with Unload Detection

Make sure Unload Detection is turned “on”.

1. Load grain cart.
2. When the cart is full, move the cart to the delivery truck.
3. Go to the ***Display*** tab.
4. Unload contents of grain cart into truck. You will see the weight reading of the large display go down and the weight reading of the small display go up.
5. When motion stops for approximately 10 seconds, the load will automatically save.

4.2 Manual Unloading

Load contents of grain cart into a delivery truck.

Make sure Unload Detection is turned “off”

1. Load grain cart.
2. When the cart is full, move the cart to the delivery truck.
3. Go to the ***Display*** tab.
4. Press the **Unload** button.
5. Select “Empty Cart”.
6. Unload contents of grain cart into truck. You will see the weight reading of the large display go down and the weight reading of the small display go up.
7. When the grain cart is empty, press the **Save** button.

4.3 Unload Choices

Press the **Unload** button from the ***Display*** tab. The following screen will be displayed.

There are four different unload choices: Fill to Max GVW, Fill to Net Amount, Add Amount, and Empty Cart. Refer to the following sections for details on each unload method.

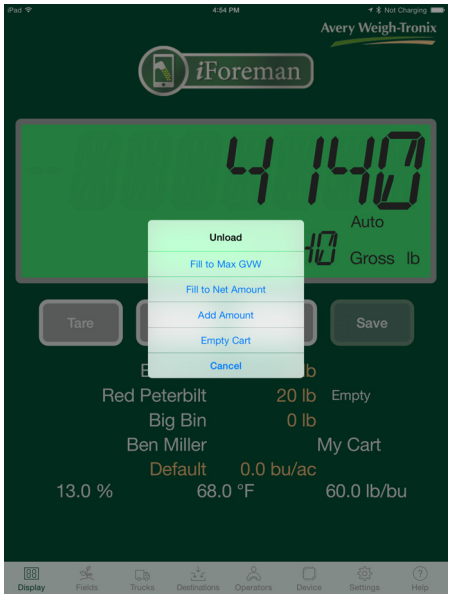


Figure 4.1 Unload Choices

4.3.1 Fill to Max GVW

Fill the selected truck from a grain cart until the maximum gross vehicle weight is met.

1. Load the grain cart
2. Press the **Unload** button from the ***Display*** tab.
3. Select “Fill to Max GVW”.

4. Unload the grain cart into the truck.

   The bottom display shows the user how much weight is left to unload to meet GVW

   The top display number shows the net amount loaded so far.

Figure 4.2 Max Gross Vehicle Weight

4.3.2 Fill to Net Amount

This allows you to enter the net amount you want to unload. The net amount must be higher than the current net amount in the truck you are loading.

1. Fill the cart with the payload weight to load on the truck.
2. Press the **Unload** button from the ***Display*** tab.
3. Select “Fill to Net Amount”.

4. Enter the payload target.

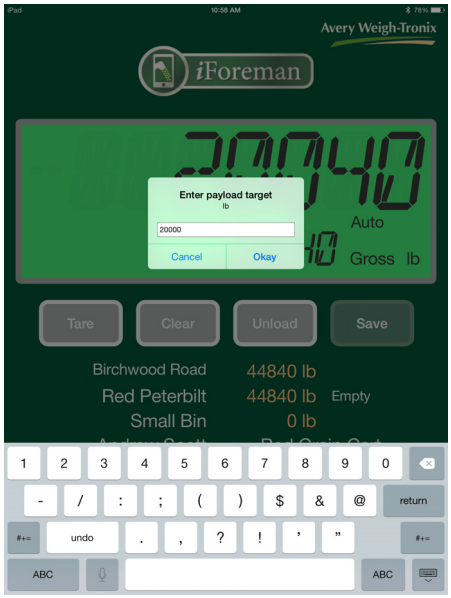


Figure 4.3 Enter Payload Amount

5. Load the truck until the bottom LCD display reaches “0”. The added load will be accumulated to the truck total.

   The bottom display shows the user how much weight is left to unload to meet the net amount.

   The top display number shows the net amount loaded so far.

Figure 4.4 Truck Total

4.3.3 Add Amount

Enter an amount to add to a truck

1. Fill the cart with the weight to add to the truck.
2. Press the **Unload** button from the ***Display*** tab.
3. Select “Add Amount”.
4. Enter the target to add.

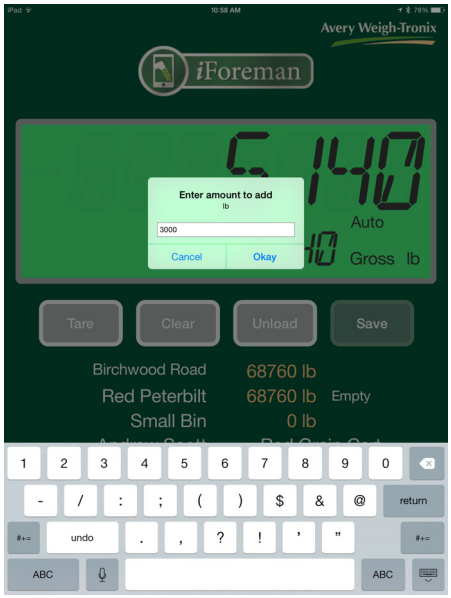


Figure 4.5 Enter Add Amount

5. Fill the truck. Once the entered amount is reached, the gross will display 0 or a negative number if more than the filled amount is loaded.

6. The amount will be added to the truck total. Any weight left in the cart will remain on the display.

   The bottom display shows the user how much weight is left to unload to meet the target “add” amount.

   The top display number shows the net amount loaded so far.

Figure 4.6 Add Amount Total in Truck

4.4 Empty Truck

1. Choose the destination the truck will be unloaded to.
2. When the delivery truck is full, unload the truck at the chosen destination.
3. Press the **Empty** button to the right of the truck total in the ***Display*** tab.

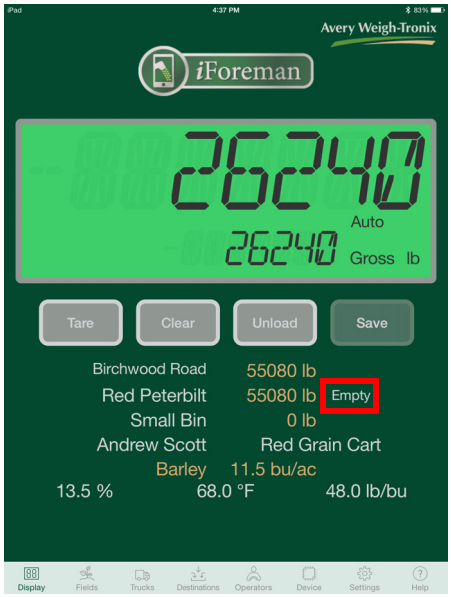


Figure 4.7 Empty Truck Weight

4. The truck weight will be zero and the weight will show in the destination weight column.

Figure 4.8 Truck Weight Unloaded

5 iForeman App

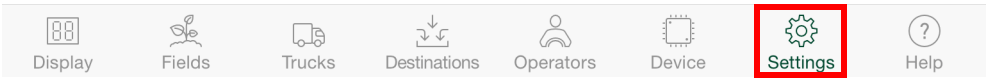
Before getting started, the i60 device must be paired to the app (see section 2.3 on page 7), and then configured (see section 2.4 on page 9).

The iForeman app can be downloaded from the App Store or Goggle Play by searching for “iForeman”.

The following sections describe the function of the various tabs presented.

Figure 5.1 Main Display

5.1 Settings Tab



The ***Settings*** tab lists all i60 devices to which the app is paired, allows configuration of user preferences for those devices, as well as configuration of general system settings.

The **Units** and **Temperature** buttons allow for changing the units of measure.

Remote Mode

The Remote Mode switch enables or disables remote display mode whereby the app listens to a selected i60 device that is currently being controlled by another mobile device. This allows other interested parties, like the combine or truck operator, to monitor live weights while within a range of about 400' from the i60 device. In this mode, operation is restricted so that no unload transactions can be processed. Note that if not under the control of a mobile device, operation of the i60 device is suspended and remote displays will not see weights.

Pair Multiple Devices

An iOS device running the iForeman app can be paired with multiple i60 devices. Likewise, one i60 device can be paired with multiple iOS devices. Note that only one iOS device can control one i60 at a time and only when within a range of about 50 feet.

To pair to a new device, press the **+** button.

This action attempts to pair with the nearest device that is not yet paired to your iOS device. If encountering difficulty, see the Connection Troubleshooting section.

Once paired, enter a unique Cart Name to set the name that is displayed for the device in the list of devices.

Display Rounding

Sets how the displayed weights are rounded (nearest 10 lb, 20 lb, etc.).

Unload Detection

Switch enables or disables automatic unload transaction detection.

Minimum Load

Sets the minimum load weight that will be recognized by the automatic Unload Detection function. Setting this value too low will cause too many false triggers, while too high could miss small unload transactions. The default value of 1000 lb is recommended for all scenarios.

Display Smoothing

Enables or disables dynamic display smoothing. It keeps the weight display responsive while loading or unloading, but stable at other times.

Connect or Disconnect a Device

To connect a device, tap anywhere within its row; a check mark indicates the selection.

To disconnect from all devices, press the **Disconnect** button.

Edit or Delete a Device

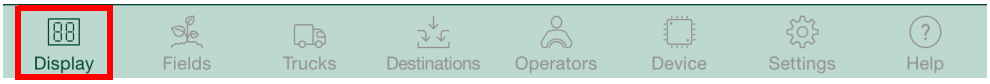
To edit a device, press ⓘ to the right of the corresponding paired device.

To delete a device from the list, swipe left on the device within the list.

Select or Close a Season

A closing date can be set for the season by touching the Close Season button. Once set, transactions may be viewed for the selected season by touching the Select Season button. At the start of each season, the field totals are automatically reset to zero, while the totals for destinations persist from one season to the next.

5.2 Display Tab



The ***Display*** tab displays the current weight on the grain cart and supports scale functionality. This tab has two multi-digit weight displays.

- The lower display normally shows the gross weight (full payload) and the text "Gross", along with the currently selected units; however, if manually unloading, it can show the balance of the desired transfer amount.
- The upper display normally shows the net weight (gross weight minus the tare reference weight); however if unloading, it shows the amount unloaded, rising from zero (0).

Just above the units is an area that indicates whether the system is configured to automatically detect unloading, with the text "AUTO" or "MANUAL". Alternatively if in remote display mode, this area displays "REMOTE".

Unload Detection

When using Unload Detection (see the ***Settings*** tab), the system automatically detects unloading and records related transactions, during which the "AUTO" text is replaced with flashing "UNLOADING" text. Each transaction is stored in the mobile device and is tagged with information as measured or selected as follows: date, time, grower, farm, field, commodity, wet and dry weights, units, moisture, test weight, GPS coordinates (if available), truck group and truck, destination group and destination, operator, and notes.

To record unloading manually (whether or not the system is configured for automatic detection), press **Unload** to view and select from a list of options, transfer the desired amount, and press Save.

Keys

Tare - sets a reference weight from which subsequent readings are based.

Clear - clears the tare reference weight

Unload and **Save -** manually record the grain transfers from cart to truck.

An **Empty** button is provided to transfer the total loaded to the selected truck to the selected destination.

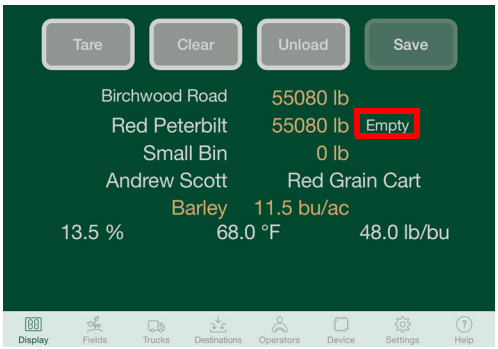


Figure 5.2 Empty Button

Change Location, Truck, Operator, or Grain Cart

The ***Display*** tab also lists the running totals for the selected field, truck, and destination. The currently selected field, truck, destination, operator, and named i60 device may be changed by touching the associated text (white text only) and selecting from the lists provided.

All of the selections shown in Figure 5.3 with the exception of the commodity can be changed by tapping on the associated text.

To change Commodity, select ***Field*** in the gray application bar. Go into the individual field's details to change commodity and area

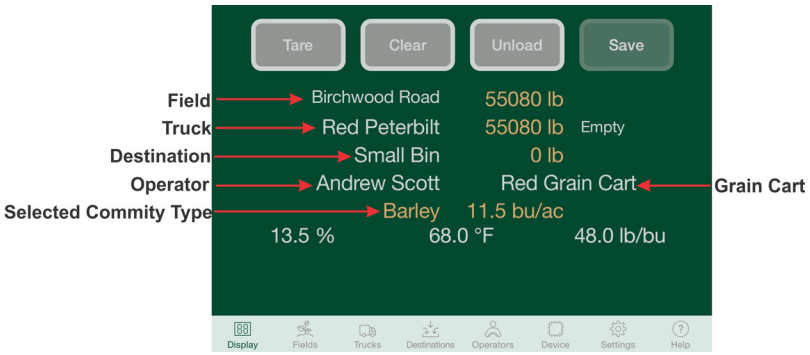


Figure 5.3 Change Field, Truck, Destination, Operator or Grain Cart

Change Moisture, Temperature, or Test Weight

Moisture, temperature, or test weight may be manually entered by touching one of the three respective fields above the gray task bar. The current moisture, temperature, and lb/bu will be applied to each following load until one of the fields is changed.

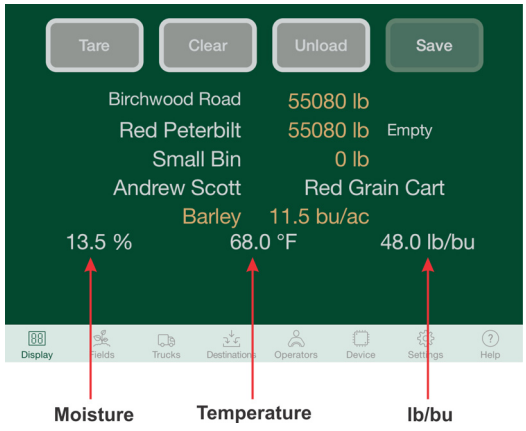
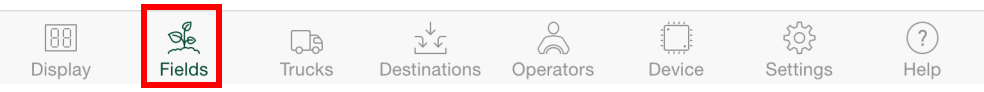


Figure 5.4 Change Moisture, Temperature, or Test Weight

5.3 Fields Tab



The ***Fields*** tab is used to manage the data for each field. Fields are organized by grower, farm, and field.

Add a Grower

1. Growers can be added by pressing the **+** button.
2. Type in the Grower and press **Done**.

   The Grower can be deleted by swiping left.

   The Grower can be edited by touching the name or the **>**.

The (Action button) constructs an email with a file attachment containing all recorded data.

Add a Farm for a Grower

1. Touch the ⓘ button to advance to the Farms assigned to a grower.
2. Press the **+** button to add a Farm.
3. Type in the Farm name and press **Done**.
4. To Edit Farm Name tap on the line or **>**
5. To view the fields assigned to a Farm press ⓘ.

Add a Field

1. Press the **+** button to add a Field.
2. Type in the Field name and press **Done**.
3. To Edit Field Name tap on the line or **>**
4. To view the fields assigned to a Farm press ⓘ.

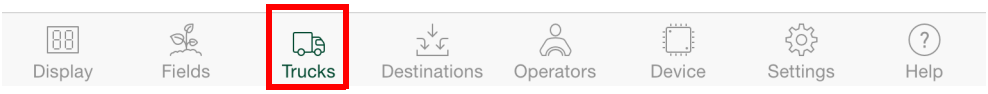
View Field Details

Press the ⓘ to edit field information.

The field details view shows its Total weight (dry / wet) and lists its unload Transactions. It allows editing the Field Name and Area, selecting the commodity (Select Commodity), adding a manually entered unload transaction (Add Transaction), and clearing of all field data (Clear).

The (Action button) constructs an email with a file attachment containing all recorded data.

5.4 Trucks Tab



The Trucks tab is used to manage the your trucks. Trucks are organized by groups and trucks.

Add a Truck Group

1. A Truck Group can be added by pressing the **+** button.
2. Type in the Truck Group and press **Done**.

   The Truck Group can be deleted by swiping left.

   The Truck Group can be edited by tapping on the description or pressing **>**.

Trucks within a group can be managed by selecting the details for that group, and then adding or deleting trucks. The current truck may be selected by tapping it. The truck details view allows editing the truck's Name, Tare Weight, and GVW.

Add a Truck to a Group

1. From the Truck Group screen touch the desired group.
2. Press the **+** button to add a truck.
3. Type in the Truck name and press **Next**
4. Enter the Truck Tare weight and press **Next**.
5. Enter the Max GVW (gross vehicle weight) and press **Done**.

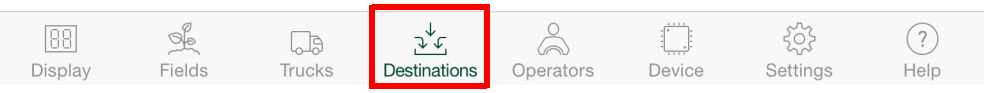
View Truck Details

The truck details include tare weight, max gross vehicle weight and current load as well as historical loads.

Figure 5.5 View Truck Details

From the trucks view, press the ⓘ to view and edit truck details and/or historical loads.

5.5 Destinations Tab



The ***Destinations*** tab is used to manage the data for each destination (bins, contracts, etc). Destinations are organized by groups and destinations.

Add a Destination Group

1. Press the **+** button to add a Destination Group.
2. Type in the Destination Group and press **Done**.

   The Destination Group can be deleted by swiping left.

   The Group can be edited by touching the ⓘ button.

Add a Destination to an Existing Group

1. From the Destination Groups screen press the ⓘ to the right of the corresponding destination group.
2. Press the **+** button to add a bin.
3. Type in the Destination name and press **Done**.

   The Destination name can be deleted by swiping left.

   The Destination name can be edited by touching it.

View Destination Details

The details view for a destination lists all its unload Transactions, along with its Total weight (dry/wet). It allows editing the destination Name, and clearing of all data (Empty).

From the Destination Group screen press the ⓘ to the right of the corresponding destination.

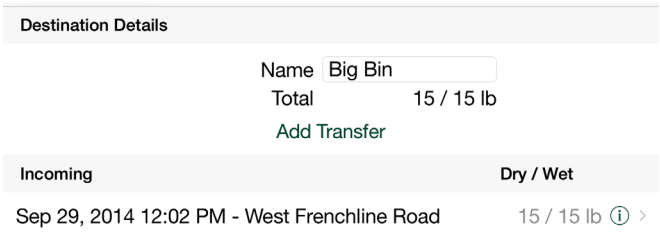


Figure 5.6 View Destination Details

Press the ⓘ to the right of the corresponding transaction to view details.

View Unload Transaction

An unload transaction may be edited by selecting its details, which allows editing of the Weight, Moisture, Temperature, Test Weight, and Notes. The associated Field, Truck, and Destination can be changed by selecting from the lists provided.

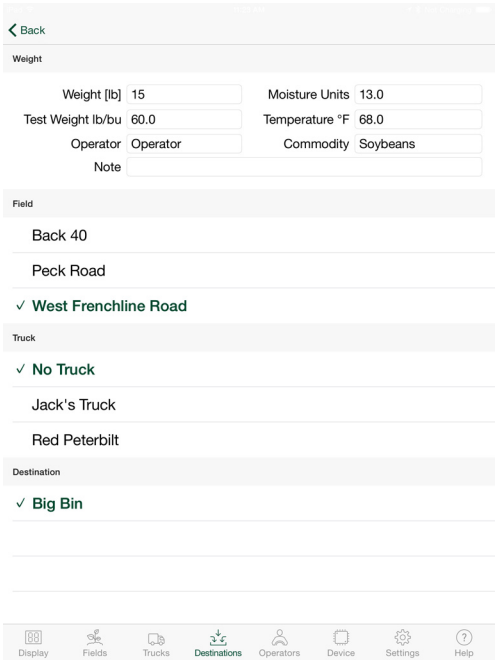
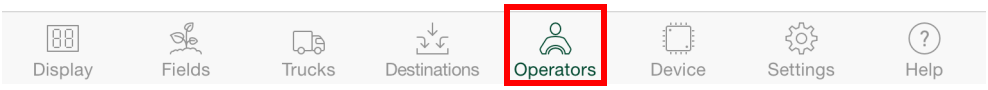


Figure 5.7 View Unload Transaction

5.6 Operators Tab



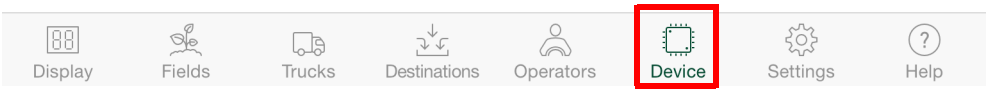
The ***Operators*** tab is used to manage the list of equipment operators.

An operator can be added by pressing the **+**. Type in the operator name.

The current operator may be selected by tapping the desired name.

The details view for an operator allows editing of the Name.

5.7 Device Tab



The ***Device*** tab is used to configure the selected i60 device. For proper operation, all weigh bars / loadcells installed on the cart must have identical ratios of sensitivity to capacity (sensitivity/capacity). This is true if all bars are of the same model and should be checked otherwise.

The i60 device must be calibrated to ensure measurement accuracy. Prior to calibration, ensure the cart is empty and press the Zero Scale button so that the display shows zero when empty. Refer to the Calibration section 3 for step by step instructions for calibration.

The i60 device firmware version and battery voltage are also displayed under the ***Device*** tab.

Enter Weigh bar / Loadcell Information

1. Enter the sensitivity of any one bar into the Sensitivity field.
2. Next, enter the capacity of the selected bar multiplied by the total number of bars on the cart into the Rated Capacity field.
3. Press the **Save Settings** button to store the values in the i60 device.

Update i60 Firmware

Just as the iForeman app can be updated through the App Store, the software that runs on the i60 device (called firmware) can also be updated.

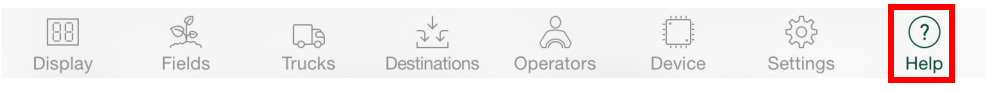
To check the availability of new firmware for the device, press the **Update Firmware** button.

> If a new version is available, the app will guide you through the update process. In the unlikely event that you need to restore the firmware to factory defaults, press the Restore Device button.

Send Diagnostics

Pressing Send Diagnostics will send us an email with all weight measurements collected by your iForeman app. This data will help us tune future versions of the app to ensure that you experience the best performance possible.

5.8 Help Tab



The ***Help*** tab provides a help document for the i60 device and the iForeman app.

6 Connection Troubleshooting

If having connection problems, try each of the steps of the Connection Troubleshooting table in sequence, ending when the problem is resolved. Note that the Bluetooth symbol in the status bar indicates the connection status; if the symbol is visible, Bluetooth is enabled. If it appears black, the devices are connected--if grey they are not.

1. Ensure Bluetooth is enabled in iOS settings, and that no other mobile device is connected to the i60 device.
2. Press the **Disconnect** button, then select the device again.
3. Turn Bluetooh off and then back on.
4. Reboot the mobile device.
5. Remove the battery, wait for 30 seconds, then reinsert.

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