

1280 Truck In/Out

Software User Guide



Scope

The 1280 Truck In/Out application is included with the 1280 standard firmware and is loaded by importing the application from the Configuration menu “Import Files”.

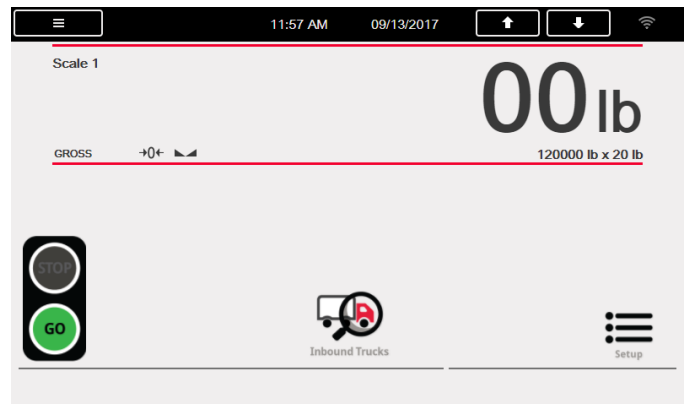
Sequence of Operation

The touch buttons on power up and exit configuration are **Inbound Trucks**, **Toggle Lights**, and **Setup**. System streams the current weight to a stop n go remote display. The **Toggle Lights** only change the lights if **Traffic Lights** is set to **Manual** in the **Setup** menu. If **Traffic Lights** are set to **Auto** they change based on the sequence below and the **Toggle Lights** widgets are for visual only.

- With the traffic light **Green** the truck will pull fully onto the scale for a transaction.
- The traffic light will turn **Red** when the **Threshold Weight** is exceeded.
- System displays **Inbound Trucks** and **Toggle Light** Buttons.

Weigh In

1. System showing **Green** on the traffic signal.
2. Driver pulls the truck fully onto the scale and stops his truck next to a kiosk.
3. System shows **Weigh In** and **Weigh Out** buttons once the scale weight exceeds the **Threshold Weight**. Traffic signals will change to **Red**.
4. Operator presses the **Weigh In** button.
5. System prompts – “Enter Truck ID”.
6. Operator enters the TRUCK ID and presses the **ENTER** key.
7. System queries the **Inbound** database table.
 - a. ID FOUND:
 - i. System displays – “Truck Already Weighed In, Update Tare” and Yes No touch widgets
 1. If No is pressed system goes back to step 3.
 2. If Yes is pressed system goes to step 7.b but update inbound database.
 - b. ID NOT FOUND:
 - i. Captures a stable GROSS weight from the Total Scale.
 - ii. Adds inbound transaction to the truck register.
 - iii. Prints a weigh in ticket. A **Reprint** button is available until the truck exits the scale.
 - iv. If **Truck Exit** Required:
 1. System turns the light **Green**.
 2. Displays – “Weigh In Complete – Exit Scale”.
 - v. If **Truck Exit** Disabled:
 1. Displays – “Weigh In Complete”
 2. Goes back to STEP 3.
8. When the weight drops below the **Threshold Weight** system returns to STEP 1.



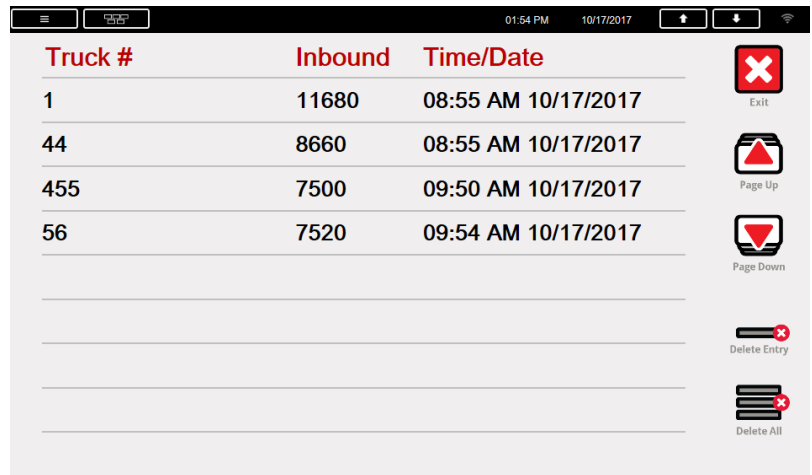
Weigh Out

1. System showing **Green** on the traffic signal.
2. Driver pulls the truck fully onto the scale and stops his truck next to a kiosk.
3. System shows **Weigh In** and **Weigh Out** buttons once the scale weight exceeds the **Threshold Weight**. Traffic signals will change to **Red**.
4. Operator presses the **Weigh Out** button.
5. Operator presses the **Weigh Out** button.
6. System prompts – “Enter Truck ID”.
7. Operator enters a TRUCK ID and presses the **ENTER** key.
8. System queries the **Inbound** database table.
 - a. ID NOT FOUND with NO KEYED Tare
 - i. Momentary displays – “Truck NOT Found” and goes back to STEP 3.
 - b. ID NOT FOUND with KEYED tare
 - i. System prompts – “Enter Product ID” only if there are products stored in the database. If only one product exists system will automatically go to customer prompt.
 - ii. Operator does one of the following:
 1. Operator enters a stored PRODUCT ID and presses the **ENTER** key.
 2. Operator press **ENTER** to skip;
 - a. System displays a list of all Products in the **Product** database table as well as the **Page Up - Page Down** touch widgets.
 - b. Operator utilizes the **Page Up - Page Down** touch widgets to scroll through the database and select the product to be processed. If **Exit** is pressed the system takes no action and returns to the Enter Product Id prompt.
 - iii. System prompts – “Enter Customer ID” only if there are customers stored in the database. If only one customer exists system will automatically use that customer and go to the next STEP.
 - iv. Operator does one of the following:
 1. Operator enters a stored CUSTOMER ID and presses the **ENTER** key.
 2. Operator press **ENTER** to skip;
 - a. System displays a list of all Customers in the **Customer** database table as well as the **Page Up - Page Down** touch widgets.
 - b. Operator utilizes the **Page Up - Page Down** touch widgets to scroll through the database and select the customer to be processed. If **Exit** is pressed the system takes no action and returns to the Enter Customer Id prompt.
 - v. Captures a stable NET weight from the Total Scale.
 - vi. Prints a Weigh Out Ticket.
 - vii. Stores Transaction Record.
 - viii. Increments a sequential **Ticket Number**. Resets at 10,000.
 - ix. System turns the light **Green**.
 - x. If **Truck Exit** Required:
 1. Displays – “Weigh Out Complete – Exit Scale”.
 - xi. If **Truck Exit** Disabled:
 1. Displays – “Weigh Out Complete” and goes back to step 3.
 - c. ID FOUND without KEYED tare

- i. System prompts – “Enter Product ID” only if there are products stored in the database. If only one product exists system will automatically go to customer prompt.
 - ii. Operator does one of the following:
 1. Operator enters a stored PRODUCT ID and presses the **ENTER** key.
 2. Operator press **ENTER** to skip;
 - a. System displays a list of all Products in the **Product** database table as well as the **Page Up - Page Down** touch widgets.
 - b. Operator utilizes the **Page Up - Page Down** touch widgets to scroll through the database and select the product to be processed. If **Exit** is pressed the system takes no action and returns to the Enter Product Id prompt.
 - iii. System prompts – “Enter Customer ID” only if there are customers stored in the database. If only one customer exists system will automatically use that customer and go to the next STEP.
 - iv. Operator does one of the following:
 1. Operator enters a stored CUSTOMER ID and presses the **ENTER** key.
 2. Operator press **ENTER** to skip;
 - a. System displays a list of all Customers in the **Customer** database table as well as the **Page Up - Page Down** touch widgets.
 - b. Operator utilizes the **Page Up - Page Down** touch widgets to scroll through the database and select the customer to be processed. If **Exit** is pressed the system takes no action and returns to the Enter Customer Id prompt.
 - v. Captures a stable GROSS weight from the Total Scale.
 - vi. Does **Value Swapping** if enabled in the Setup Menu (Not with KEYED Tare).
 - vii. Prints a Weigh Out Ticket. A **Reprint** button is available until the truck exits the scale.
 - viii. System adds a new record to the **Transaction** database table. *(Deletes 25% of oldest records when full)*
 - ix. Increments a sequential **Ticket Number**. Resets at 10,000.
 - x. System turns the light **Green**.
 - xi. Deletes inbound weight if **Stored Tares** is disabled in the Setup Menu (Not with KEYED Tare).
 - xii. Deletes inbound weight if **Stored Tares** is enabled and Truck ID has a decimal in it.
 - xiii. If **Truck Exit** Required:
 1. Displays – “Weigh Out Complete – Exit Scale”.
 - xiv. If **Truck Exit** Disabled:
 1. Displays – “Weigh Out Complete” and goes back to step 3.
9. When the weight drops below the **Threshold Weight** system returns to STEP 1.

Inbound Trucks

1. Operator presses the **Inbound Trucks** button. If a password is stored system prompt enter password before display inbound weighments.
2. The display will show 8 inbound weighments, including ID, weight and time/date and the buttons will switch to **Page Up**, **Page Down**, **Delete**, **Delete ALL**, and **Exit**.
3. Press the **Page Up** and **Page Down** button to scroll through stored inbound weighments 8 at a time.
4. Operator touches inbound weighment to delete then presses the **Delete** button to delete the selected inbound weighment. The display will display “Are You Sure?” and change the buttons to **Yes** and **No**. To delete press the **Yes** button.
5. Press the **Delete All** button to delete all inbound weighments. The display will prompt “Are You Sure?” and change the button to **Yes** and **No**. To clear all weighments press the **Yes** button.



The screenshot shows a handheld device screen with a table of inbound truck data. The table has three columns: 'Truck #', 'Inbound', and 'Time/Date'. The data rows are as follows:

Truck #	Inbound	Time/Date
1	11680	08:55 AM 10/17/2017
44	8660	08:55 AM 10/17/2017
455	7500	09:50 AM 10/17/2017
56	7520	09:54 AM 10/17/2017

On the right side of the screen, there are five control buttons: 'Exit' (red X icon), 'Page Up' (up arrow icon), 'Page Down' (down arrow icon), 'Delete Entry' (trash can icon), and 'Delete All' (three horizontal lines icon). The top status bar shows the time '01:54 PM' and date '10/17/2017'.

Serial Communications – Tickets, PC

Weigh In Ticket (Auxfmt1)

The program uses the Auxiliary Print Format #1 so that the dealer may modify the print format thru the 1280 front panel or by using Revolution PC software.

```
TRUCK ID 555  
  
GROSS  6000 lb INBOUND  
  
08:43 AM 11/30/2016
```

Weigh Out Ticket (Auxfmt2)

The program uses the Auxiliary Print Format #2 so that the dealer may modify the print format thru the 1280 front panel or by using Revolution PC software.

```
TICKET 1  
  
TRUCK ID 555  
PRODUCT  444 APPLES (only prints entire line if entered)  
CUSTOMER 333 JOHN DOE (only prints entire line if entered)  
  
GROSS  100000 lb  
TARE    6000 lb RECALLED  
NET     94000 lb  
        47.0 tn (only prints if product selected)  
  
09:43 AM 11/30/2016
```

Customer by Product Report

The report is not editable without an iRite program modification.

```
Customer by Product Report  
Printed @ 12:17 PM 12/02/2016  
  
1 XYZ Trucking  
  Tin           40000 lb  
  Gold          20000 lb  
  Bismuth       20000 lb  
  
2 ABC Trucking  
  Tin           20000 lb  
  Gold          60000 lb  
  
3 Rice Lake Weigh  
  Tin           20000 lb  
  Platinum      40000 lb  
  Bismuth       20000 lb  
  
4 Intruder  
  Tin           20000 lb  
  Platinum      20000 lb  
  Lead          40000 lb  
  
5 Mattson  
  Platinum      20000 lb  
  Bismuth       40000 lb
```

Customer by Truck Report

The report is not editable without an iRite program modification.

Customer by Truck Report		
Printed @ 12:18 PM 12/02/2016		
1 XYZ Trucking		
F1	40000	lb
S1	40000	lb
2 ABC Trucking		
F1	40000	lb
S1	40000	lb
3 Rice Lake Weigh		
C1	20000	lb
F1	20000	lb
S1	40000	lb

Rice Lake Stop n Go Green Light (AuxFmt19)

The message will be transmitted (Defaulted to Port 2). The format can be modified through the 1280 front panel or using a PC application called Revolution.

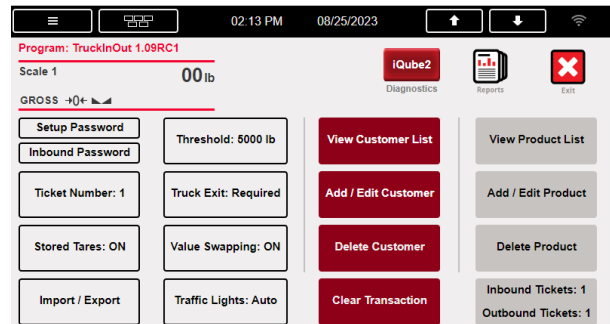
Rice Lake Stop n Go Red Light (AuxFmt20)

The message will be transmitted (Defaulted to Port 2). The format can be modified through the 1280 front panel or using a PC application called Revolution.

Application Setup & Configuration

The **Setup** button is password-protected and offers access to the following:

- Display Program Name & Version and Display a weight widget



Parameter	Default	Button	Description
System Password	""	Setup Password	Changing the password that is required for entry into the Setup menu. Setting the password to nothing will cause the system to not prompt for a password when the [Setup Menu] touch widget is pressed.
Inbound Trucks Password	""	Trucks Password	Changing the password that is required for entry into the Inbound Trucks display. Setting the password to nothing will cause the system to not prompt for a password when the [Inbound Trucks] touch widget is pressed.
Ticket Number	1	Ticket Number	Sequential number assigned to each weigh out transaction.
Stored Tares	ON / OFF	Stored Tares	When this is ON the Inbound Weight is stored even after Weighing Out. When this is OFF the Inbound record is deleted after Weighing Out.
Value Swapping	ON / OFF	Value Swapping	When this is ON the Gross weight is always the larger of the Gross and Tare values, whether the Outbound weight was larger or smaller than the Inbound weight. When this is OFF the Gross is always the Outbound weight.
Threshold Weight	5000 lb	Threshold Weight	Enter the weight that triggers the optional traffic light, and also is what must go above/below between weighments are allowed.
Import/Export Data		Import/Export	1280 standard function. Please reference the 1280 Installation manual for more details. Allows the operator to import Products into the Product database table from a USB flash drive using .DB file type and allows the user to save transactions to the USB flash drive.
Add/Edit Products	-	Add/Edit Product	Allows the operator to Add/Edit products to the Product database table.
Delete Products	-	Delete Product	Allows the operator to Delete products in the Product database table.
Add/Edit Customers	-	Add/Edit Customer	Allows the operator to Add/Edit customers to the Customer database table.
Delete Customers	-	Delete Customer	Allows the operator to Delete customers in the Customer database table.
Print Reports	-	Customer by Product Customer by Truck	Allows operator to print two totals reports (totals only).
Truck Exit	Required / Disabled	Truck Exit	Allow operator to decide if truck has to leave scale in between weighments.
Traffic Lights	Auto / Manual	Traffic Lights	Allows operator to decide if the traffic lights are controlled by the program sequence (Auto) or by the touch widgets (Manual).
iQube2 Diagnostics	-	iQube2 Diagnostics	Displays 1280 built in iQube2 Diagnostics touch widget. An iQube2 cannot be configured to Port 1. If configured to Port 2 make sure streaming is OFF, Auxiliary Formats #19 and #20 are set to Port 0.
Clear Transaction		Clear Transaction	Allow the operator to clear transaction database with a Yes or No Prompt
Inbound Tickets	1	Inbound Ticket	Allow operator to change how many inbound tickets are printed
Outbound Tickets	1	Outbound Tickets	Allow operator to change how many outbound tickets are printed

Database Tables

Report Database is used for Reporting in the iRite program.

Inbound Database Table – 1,000 Records		
Field	Type	Description
ID	String	Alphanumeric ID – 15 Characters
InPWgt	Real	Primary Inbound weight stored
InSWgt	Real	Secondary Inbound weight stored
InTWgt	Real	Tertiary Inbound weight stored
DT	Datetime	Time and Date of transaction

Product Database Table – 100 Records		
Field	Type	Description
ID	String	Alphanumeric ID – 15 Characters
Name	String	Product Name – 15 Characters
CUnits	String	What to print for converted units
CMult	Real	Convert to second units (tn or bushels)

Customer Database Table – 100 Records		
Field	Type	Description
ID	String	Alphanumeric ID – 15 Characters
Name	String	Customer Name – 15 Characters

Transaction Database Table – 5000 Records		
Field	Type	Description
Ticket	Integer	Sequential Ticket Number
TruckID	String	Truck ID – 15 Characters
ProdID	String	Product ID – 15 Characters
ProdName	String	Product Name tied to ID
CustID	String	Customer ID – 15 Characters
CustName	String	Customer Name tied to ID
Gross	Real	Gross Weight
Tare	Real	Tare Weight
Net	Real	Net Weight
ConNet	Real	Converted units based on product conversion value
OutUnits	String	Outbound Unit String
InDT	Datetime	Date and Time of Inbound
OutDT	Date Time	Date and Time of Outbound

Hardware Setup

Option Card Locations	
Slot	Type
1	Single Channel A/D Card
2	Dual Channel A/D Card (Optional)

Digital I/O			
Slot	Bit	Type	Function
0	1	Output	Green Traffic Light
0	2	Output	Red Traffic Light
0	3-8	Off	Currently Not used

Serial Port			
Port	Type	Description	Setup
1	CMD	Ticket Printer	9600,8,N,1
2	CMD	*Rice Lake Stop and Go Remote Default for Legal For Trade Streaming	9600,8,N,1

*To configure another device on Port 2 please do the following:

- In Stream Formatting deselect Stream Destination Serial Port 2.
- Ticket Formatting set Destination Port to None.
- Ticket Printer on Port 1 cannot be removed.

Version Changes

Version	Changes	Date	Firmware
1.00	<ul style="list-style-type: none"> ▪ Initial Release 	3/1/2015	1.00
1.01	<ul style="list-style-type: none"> ▪ Added 2 A/Ds for a 3-scale + Total system ▪ Added Product and Customer prompts, databases, and ticket output. ▪ Added Two Totals Reports ▪ Added Setup Menu and Weigh/Out touch buttons. ▪ Added Import/Export option. ▪ Added Transaction database with auto delete when full. 	12/1/2016	1.05
1.02	<ul style="list-style-type: none"> ▪ Removed Softkey ▪ Inbound Database to 1000 trucks ▪ Add ability to weigh in/out without leaving scale 	04/7/2017	1.06
1.03	<ul style="list-style-type: none"> ▪ Linked internal images/buttons though Revolution file. ▪ Added support for 12 inch display (4 – Revolution files) 	10/17/2017	1.07
1.04	<ul style="list-style-type: none"> ▪ Addressed a Exit widget issue 	11/28/2017	1.07
1.05	<ul style="list-style-type: none"> ▪ Added iQube2 Diagnostics button to all 4 Revolution file configurations. 	1/31/2018	1.07.01

1.06	<ul style="list-style-type: none"> ▪ Added ability to store Primary, Secondary and Tertiary weights in the Inbound Database while processing an inbound truck. This allows an operator to weigh out in different units than inbound. ▪ Added a Traffic Light option. The Toggle Lights only change the lights if Traffic Lights is set to Manual. If Traffic Lights is set to Auto they change based on the regular sequence and the Toggle Lights widgets are visual only. ▪ Unlocked PRINT and UNITS key to allow the operator to print a gross ticket or toggle between units all the time. ▪ Added units string to Transaction database. 	09/07/2018	1.09
1.07	<ul style="list-style-type: none"> ▪ Addressed a prompting issue when entering more than 15 characters on the Truck ID Prompt. ▪ Changed 7 inch iQube2 port 2 baud to 115200. 	04/03/2018	1.09
1.08	<ul style="list-style-type: none"> ▪ Added Display List options for Customer and Product selection ▪ Added Reprint Option ▪ Added a Sequential Ticket Number 	07/10/2020	1.11
1.09	<ul style="list-style-type: none"> ▪ Add ability to update tare on a weigh in. ▪ Update Rev files to latest modules ▪ Fix to Keyed tare option ▪ Fix to Page up and down ▪ Add Inbound and Outbound number of tickets ▪ Add Clear Transaction to setup menu 	08/24/2023	2.05
Download: <input checked="" type="checkbox"/> SC <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> TF <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/> DB <input checked="" type="checkbox"/> COD SC = Standard Configuration N = Network Configuration TF = Ticket Formats SP = Setpoints W = Widgets DB = Database Tables COD = Program			