OverDrive®
Unattended Software

User's Manual

Software Version 2.3.0

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INTRODUCTION

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1 Installing the Program

Introduction

An OverDrive unattended driver terminal enables drivers to process their own vehicle weighing transactions without having a scale operator on duty. OverDrive unattended software is designed to configure unattended driver terminals so that they can be used with the OverDrive vehicle scale software system. Before you can use OverDrive unattended software, you will need to install OverDrive software (version 2.3.0 or later) and the SQL Server 2005 database (which requires Microsoft .NET Framework 2.0).

This manual explains how to install OverDrive unattended software modules and use them with unattended driver terminals. For information about installing an unattended driver terminal or other equipment, refer to the manual for the specific type of equipment.

Requirements

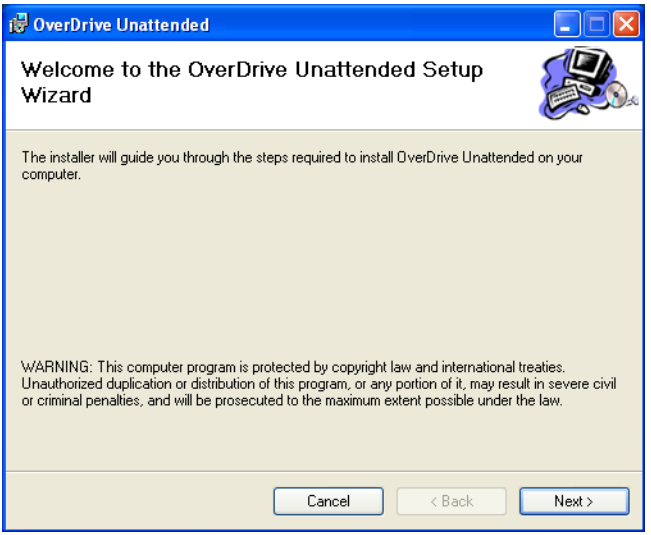
Install OverDrive software on a personal computer with the following capabilities:

- Intel 2 GHz or higher (recommended).
- Microsoft XP Professional SP2 plus current Windows updates (required).
- Minimum 2 GB of RAM (recommended).
- Minimum 10 GB free HDD (recommended).
- Video Driver Support for 32-bit color; minimum 1024 x 768 screen resolution is required (1152 x 864 is recommended).
- Internet Explorer 6 or higher (required).
- DVD ROM drive (required).
- Operating User ID – Standard User (Power User Group) Permission (required); Installation – Administrator (required).
- Keyboard (required).
- Mouse (required).
- 100 MBS or higher network adapter (required).

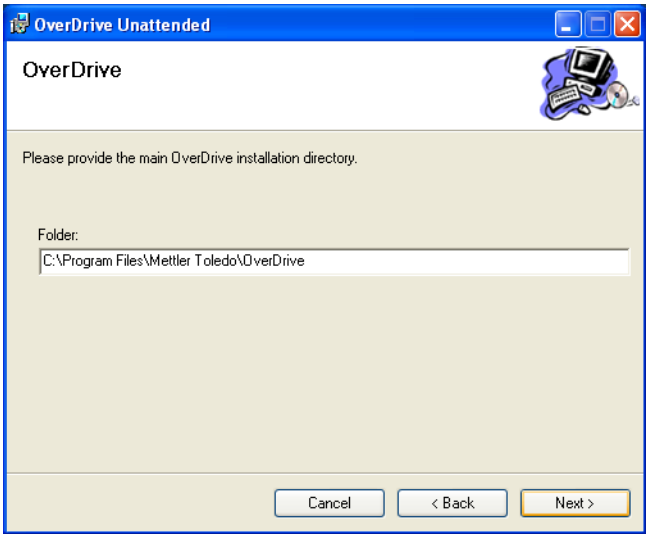
Installation

The following instructions explain how to install OverDrive unattended software. The setup wizard installs software for the Unattended and Credit Card Modules. There is a separate wizard for installing the Video Server Module.

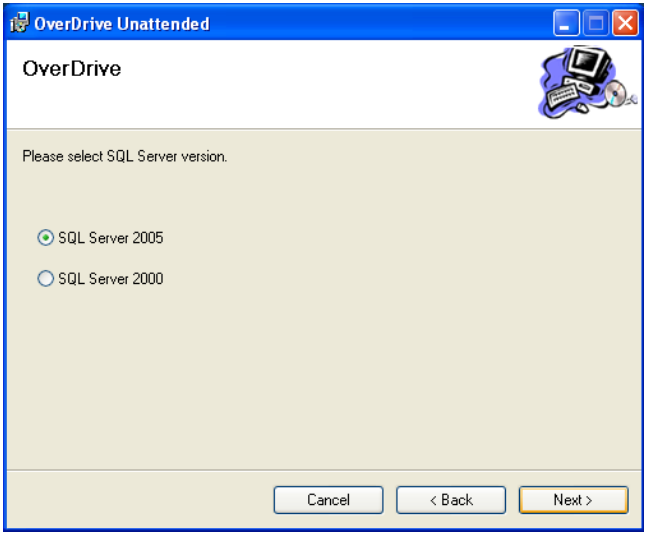
1. Place the OverDrive installation disk in the computer's disk drive. To start the setup wizard, run the OverDrive setup.exe file located in the OUDT Support/OUDT Install folders on the disk.



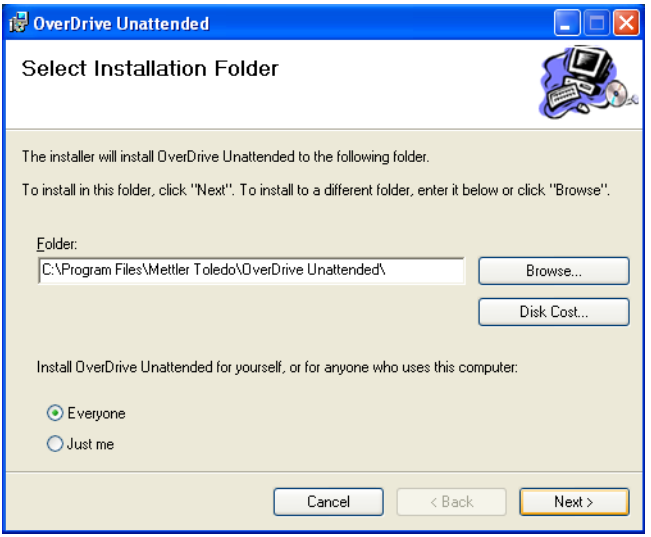
2. Click the **Next** button to start the setup procedure.



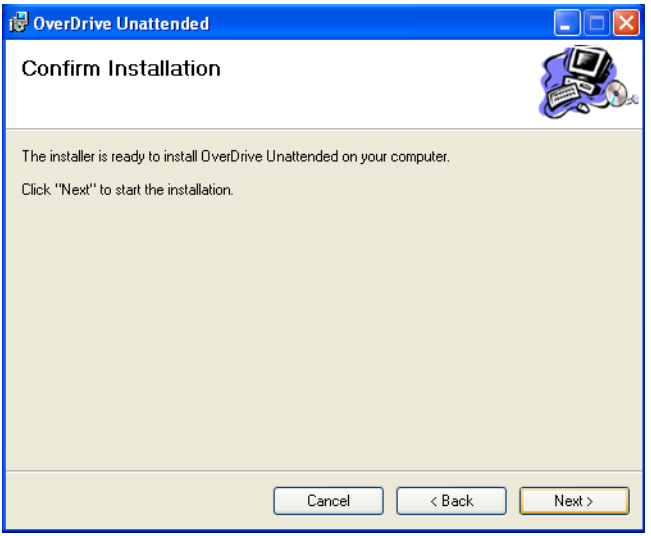
3. The **Folder** data field shows the default location of the OverDrive software. If the software was installed in a different location, enter that location. Then click the **Next** button.



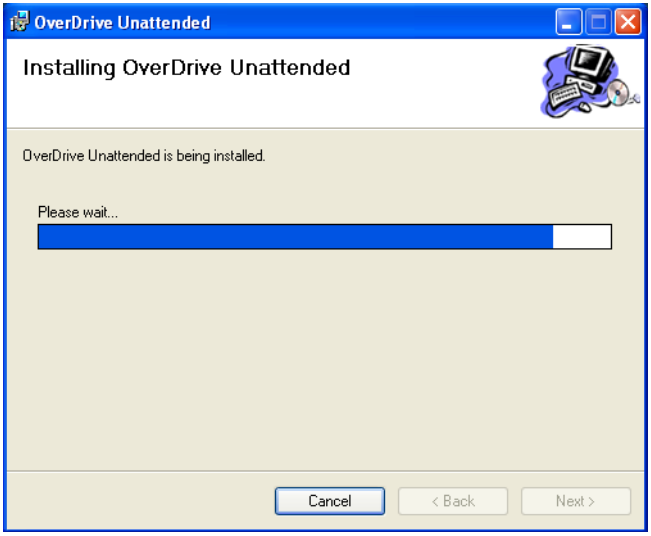
4. Select the version of SQL Server that was installed (2000 or 2005). Then click the **Next** button.



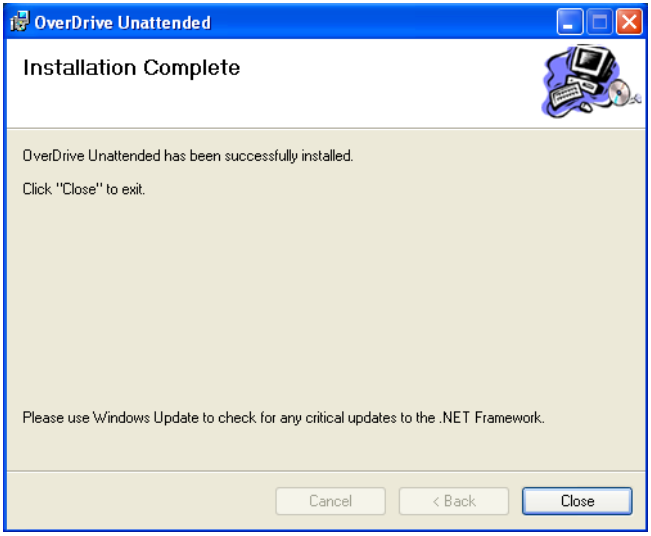
5. The default location for the OverDrive unattended files is C:\Program Files\Mettler Toledo\OverDrive OUDT. Use the **Browse** button if you want to select a different location. Then click the **Next** button. Clicking the **Disk Cost** button shows the amount of disk space required for the installation. The radio buttons determine whether a **Start** menu shortcut is created for everyone or the person who is logged in during installation.



6. Click the **Next** button to begin installing the software.



7. The wizard will show the progress of the installation process. Wait for the **Installation Complete** window to appear.



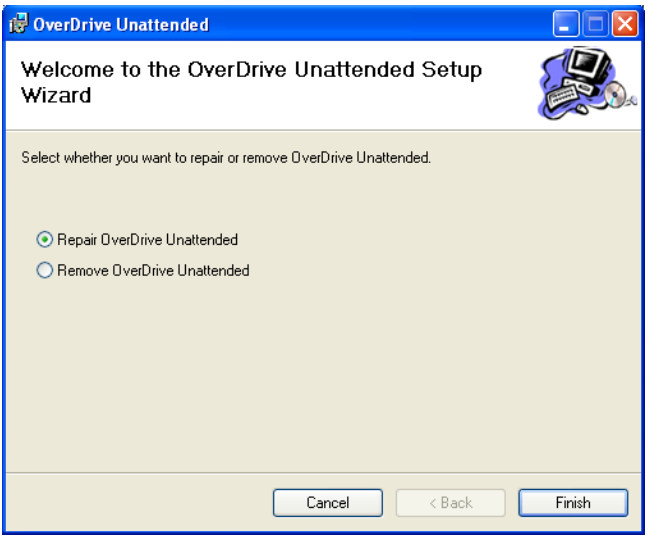
8. The installation has been completed. Click the **Close** button to close the wizard.

Modification

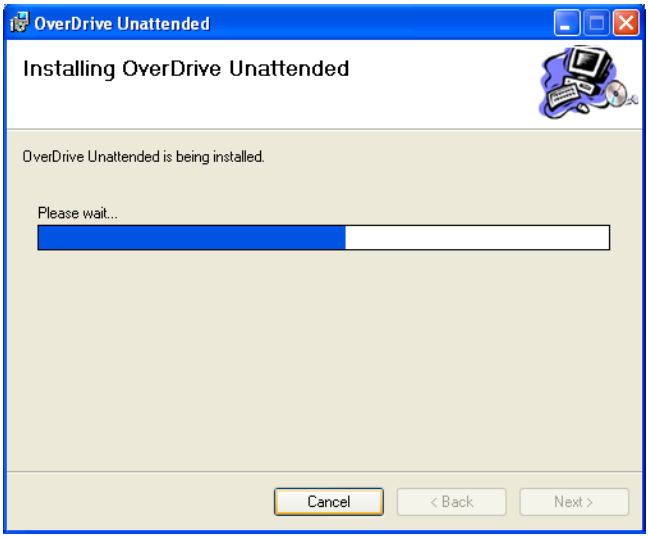
Once the program has been installed, you can use the setup wizard to repair or remove system components.

Repair

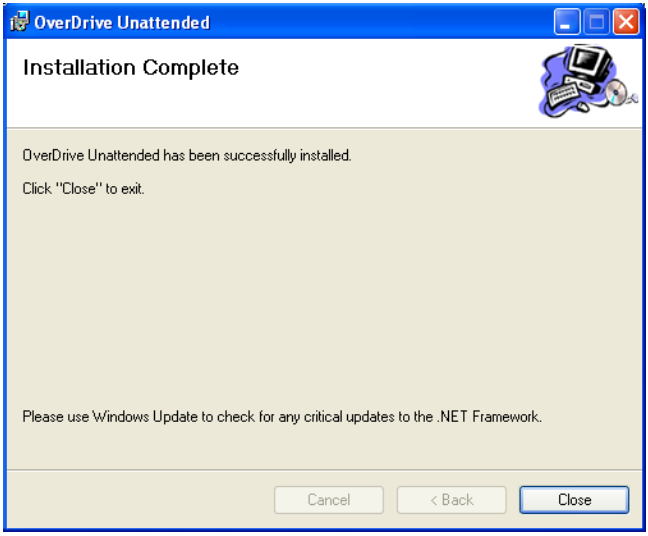
You will need the OverDrive installation disk to repair the system. Place the disk in the computer's disk drive. To start the setup wizard, run the OverDrive setup.exe file located in the OUDT Support/OUDT Install folders on the disk.



1. Select a modification option, and then click the **Finish** button.
   - **Repair** lets you repair your system by replacing the components that were selected during the previous installation.
   - **Remove** lets you remove all components that are currently installed.



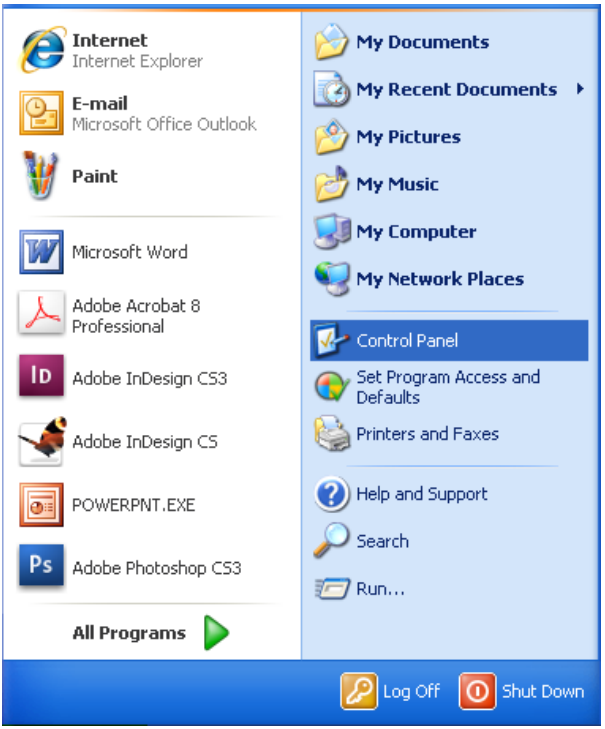
2. The wizard will show the progress of the modification procedure. Wait for the **Installation Complete** window to appear.



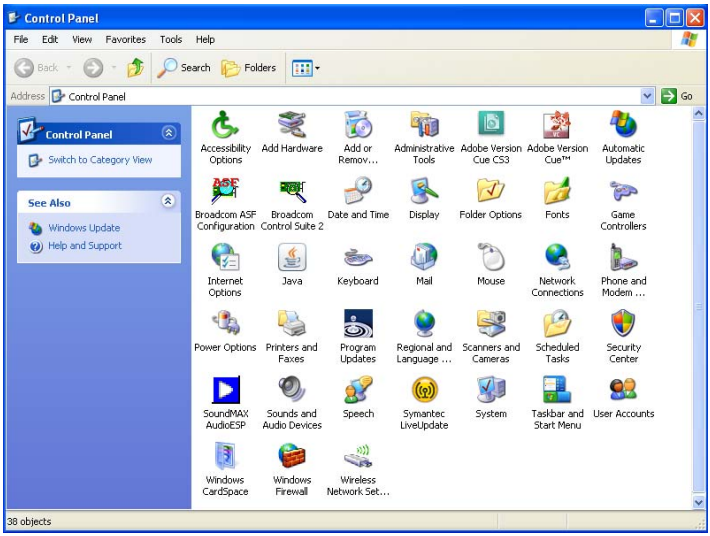
3. The procedure has been completed. Click the **Close** button to close the wizard.

Remove

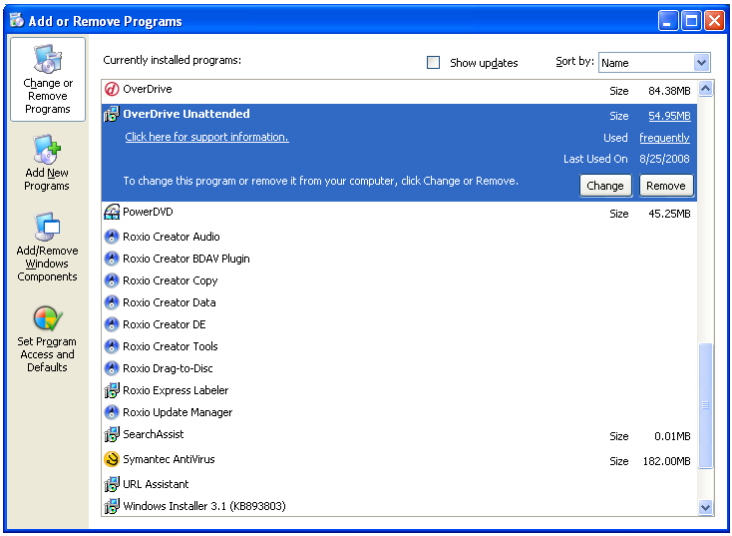
You can remove OverDrive unattended software without using the installation disk.



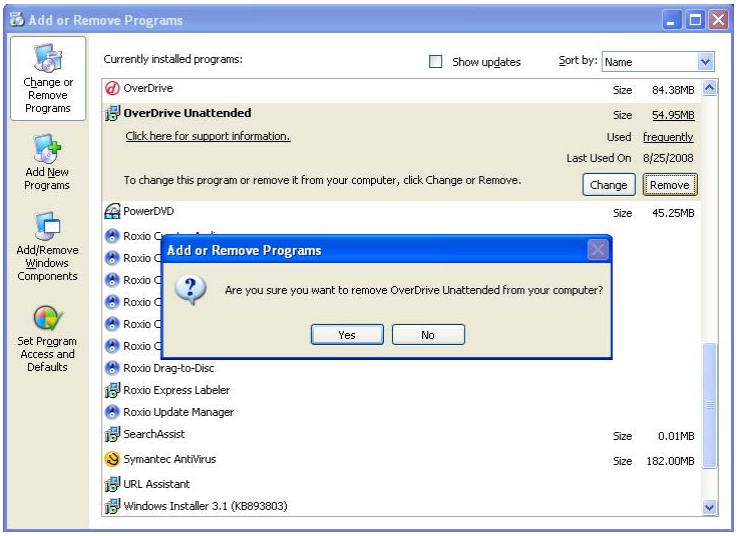
1. Click the **Start** button in the lower left-hand corner of the computer screen. Then select **Control Panel** from the **Start** menu.



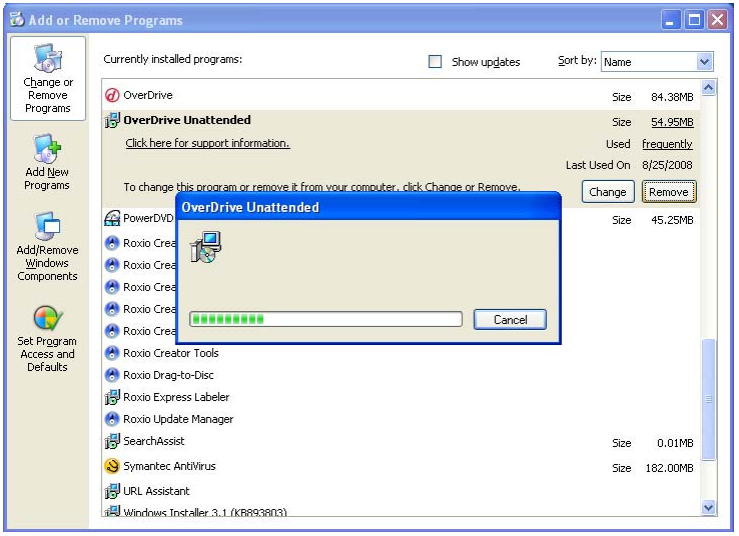
2. Double-click the **Add or Remove Programs** icon in the control panel.



3. Select the OverDrive unattended software from the list box, and then click the **Remove** button.



4. Click the **Yes** button to remove the software.

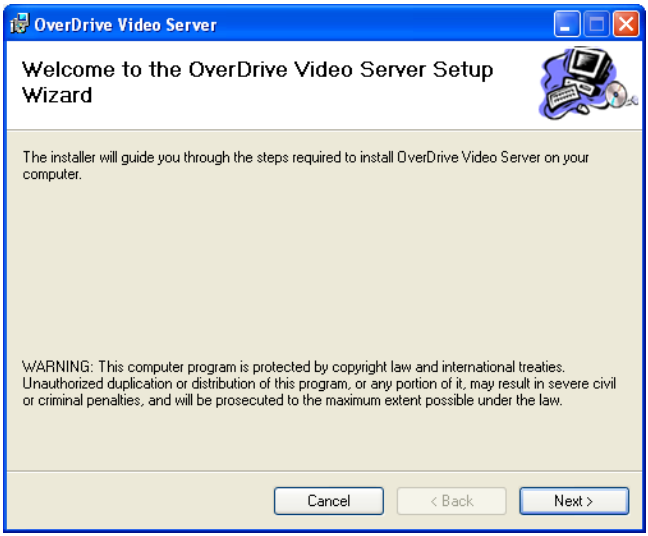


5. A status window will show the progress of the removal procedure. When the window closes, the procedure has been completed.

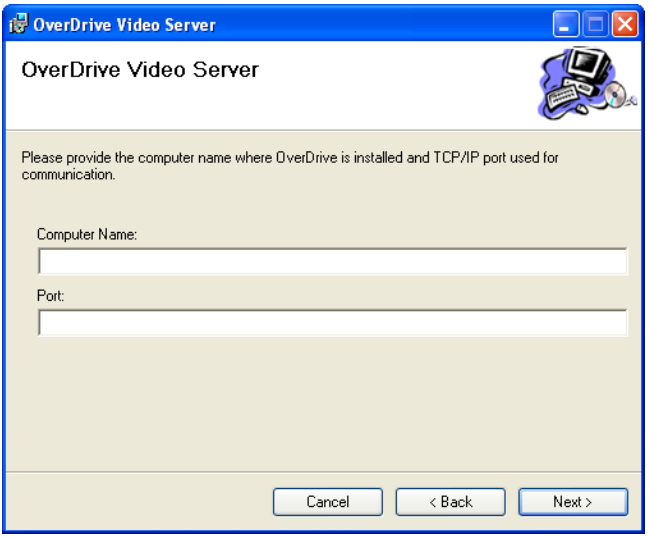
Video Server Installation

Install the video server only if you plan to register it. You must install OverDrive unattended software before installing the video server. We recommend installing the video server on a separate computer from the OverDrive software application because processing video uses a lot of the computer's resources. The following instructions explain how to install the OverDrive video server.

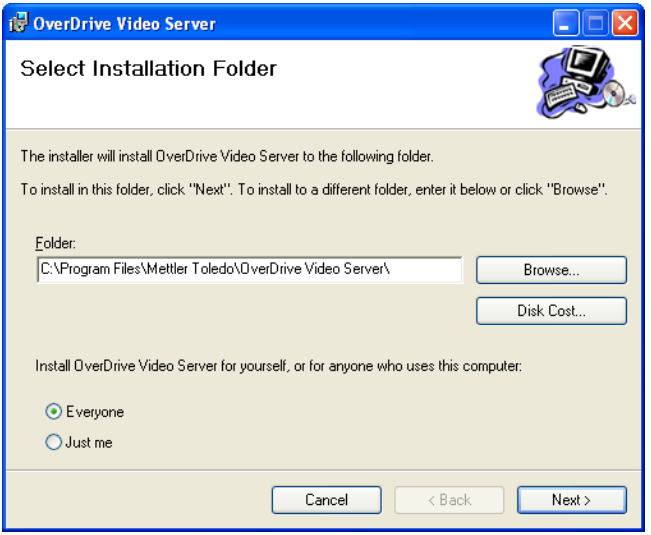
1. Place the OverDrive installation disk in the computer's disk drive. To start the setup wizard, run the setup.exe file located in the OUDT Support/ODVS Install folders on the disk.



2. Click the **Next** button to start the setup procedure.

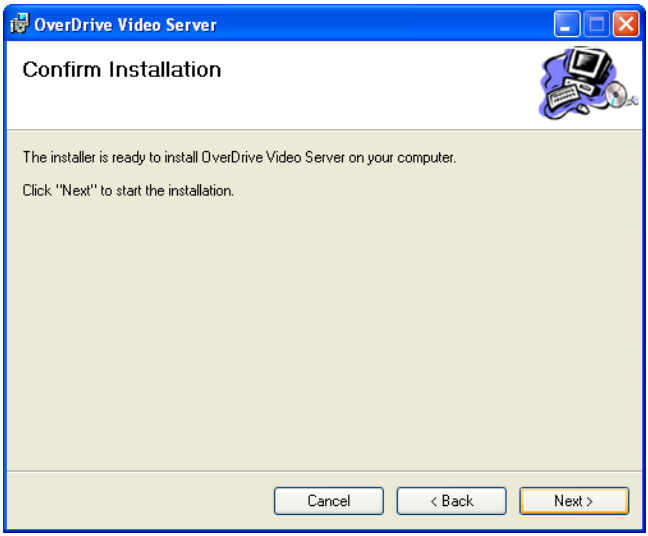


3. Enter the name of the computer where the OverDrive software is installed and the TCP/IP port used to communicate with that computer. Then click the **Next** button.

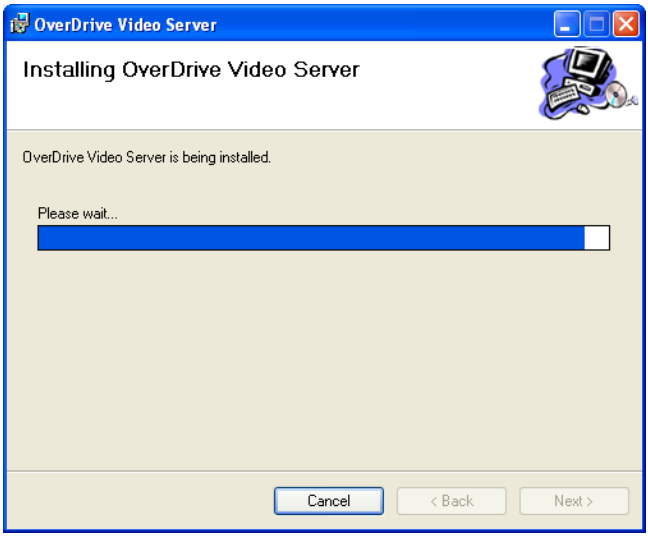


4. The default location for the OverDrive video server is C:\Program Files\Mettler Toledo\OverDrive Video Server. Use the **Browse** button if you want to select a different location. Then click the **Next** button. Clicking the **Disk Cost** button shows the

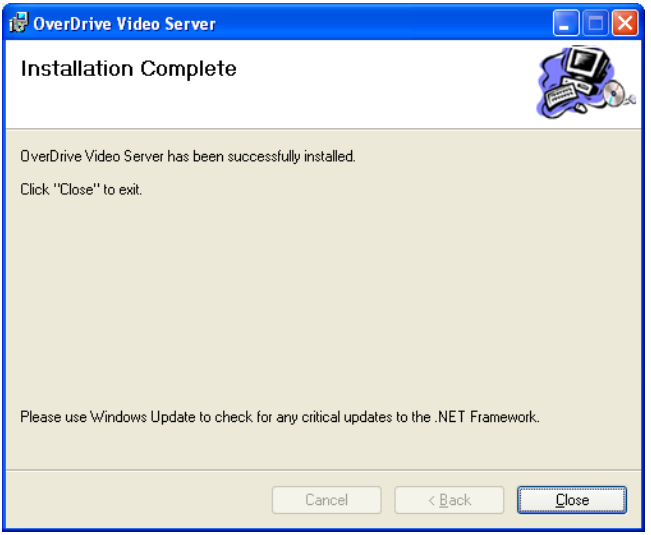
amount of disk space required for the installation. The radio buttons determine whether a **Start** menu shortcut is created for everyone or the person who is logged in during installation.



5. Click the **Next** button to begin installing the software.



6. The wizard will show the progress of the installation process. Wait for the **Installation Complete** window to appear.



7. The installation has been completed. Click the **Close** button to close the wizard.

2 License Registration

Registering

After you have installed OverDrive software, you will need to register it. Until the software is registered, you can use it in demonstration mode for 14 days. At the end of the 14-day demonstration period, the program will shut down if it has not been registered.

If OverDrive software was registered for use with an add-on module, then there is no need to register again when you install that module. If you are installing an add-on module that was not selected when you registered OverDrive software, then use the following procedure to register the module.

Register your installation from the **Registration** screen. To open the screen, click the OverDrive OUDT icon in the **Start / All Programs / Mettler Toledo** menu.

1. In the list box, place a check mark next to the software modules that you have purchased. If you do not check any boxes, you will be registered for the basic software package. Contact your local Mettler Toledo customer service representative to get the registration keys for your software. You will need to provide the two product codes listed on the **Registration** screen.
2. Mettler Toledo will provide the registration keys for your system. Enter those keys in the **Registration Keys** data fields on the

Registration screen (enter key #1 in the first field and key #2 in the second field).

3. Click the **Register** button. You will then be prompted to restart the application in order to complete the registration process.

After you have registered your software, the **Registration** screen will no longer open automatically when you log in to the system. To display the **Registration** screen, start the program and select **Register** in the **Help** menu.

Registration Screen

Product Codes

The product codes listed in the two data fields on the **Registration** screen are for the computer on which the software is installed. The registration keys that you receive will be linked to those product codes. To register a system, you must enter the registration keys that are linked to the product codes shown on the screen.

Registration Keys

There are two **Registration Keys** data fields. When you receive your registration keys, enter them in the data fields in order to register your system.

Push Buttons

Demo: Click the **Demo** button to start the program in demonstration mode. Demo mode allows you to try out the software, giving you access to all functions and all available languages. At the end of the 14-day demonstration period, the program will shut down if it has not been registered.

Register: Click the **Register** button to register your system. You will need to obtain registration keys and enter them in order to register. When you have entered registration keys and clicked the button, you will be prompted to restart the application in order to complete the registration process.

Cancel: Click the **Cancel** button to delete any changes and close the **Registration** screen.

3 Startup

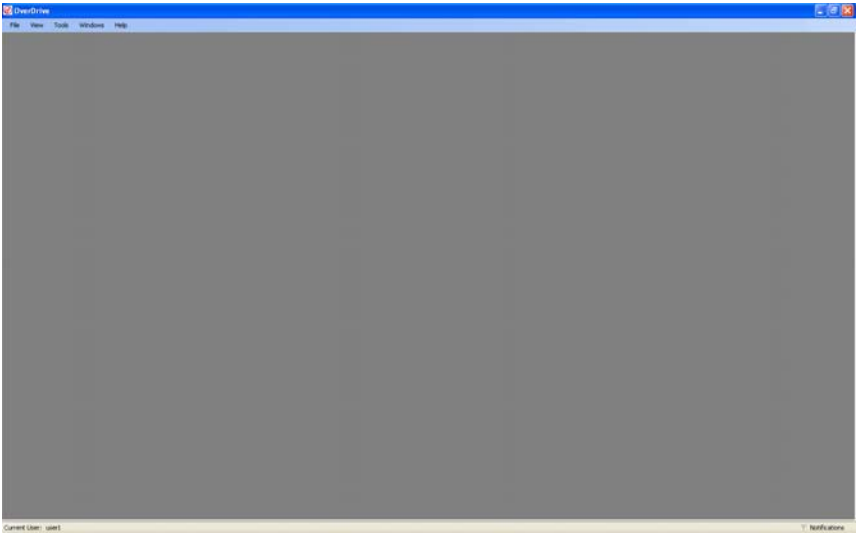
How to Start the Program

When OverDrive unattended software is installed, an OverDrive OUDT icon will be created in the computer's **Start / All Programs / Mettler Toledo** menu.

1. Select the OverDrive OUDT icon and press the ENTER key (or double-click on it). The **OverDrive Login** screen will open.

2. Type your user name in the **User Name** field.
3. Move the cursor to the **Password** field and type your password. The password will not be shown in the field; each character will appear as an asterisk.
4. Click the **OK** button or press the ENTER key to start the program (click the **Cancel** button to exit).

If you typed your user name and password correctly, the main OverDrive screen (shown below) will open.



This screen provides access to all OverDrive unattended screens, tables, and functions. The rest of this chapter describes the basic features of the screen and how to use them.

The user who is currently logged in is listed on the status bar in the lower left-hand corner of the screen.

You can change users without shutting down the program. Click on **Current User** on the status bar to open the **OverDrive Login** screen, which will allow a new user to log in. When a new user logs in, the previous user is automatically logged out. When this feature is used, only the main OverDrive screen can be open. All other screens must be closed.

Menu Bar

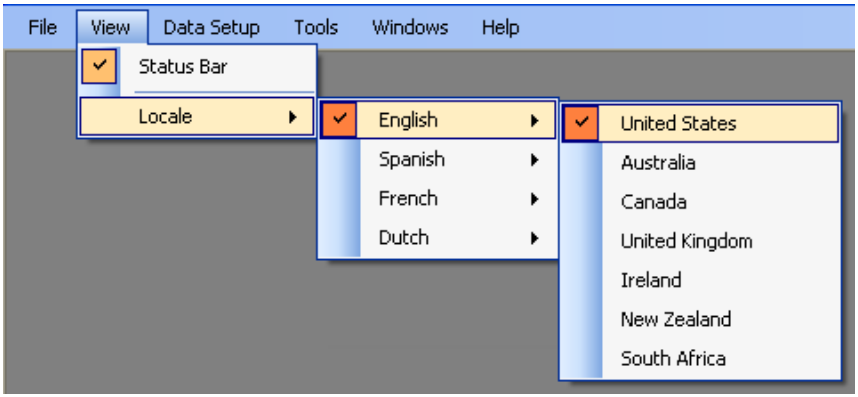
The menu bar at the top of the screen provides the following menus:

File Menu

- **Exit:** This item closes the program.

View Menu

- **Status Bar:** This item opens and closes the status bar at the bottom of the main OverDrive screen.
- **Locale:** This item lets you select a language and country for the software. Open the **View** menu, position the cursor over the **Locale** item to display a list of languages, position the cursor over the desired language to display a list of countries, and then click on the desired country to select it.



Data Setup Menu

- **Images:** This item opens the video server's **Isolated Images** screen and **Transaction Images** screen.

Tools Menu

The tools in this menu are described in Chapters 4 and 5.

- **Options:** This item is for future use.
- **Application Settings:** This item opens the **Application Settings** screen, which is used to display database information, assign function keys on the unattended driver terminal, and set time intervals for the terminal.

- **Badge Assignment:** This item opens the **Badge Assignment** screen, which is used to assign badges and configure them for use with the unattended driver terminal.
- **Capture Digital Signature:** This item opens the **Capture Digital Signature** screen, which is used to record a signature from an electronic signature pad and link it to a transaction.
- **Capture Payment:** This item opens the Capture Payment screen, which is used to process credit card, debit card, check, and cash transactions.
- **Open Transaction Browser:** This item opens the transaction browser, which displays a list of open transactions (two-pass and multi-pass transactions that have not been completed).
- **Payment Server Configuration:** This item opens the **Payment Server Configuration** screen, which is used to set up communications with the PCCharge server.
- **Resource Editor:** This item opens the resource editor, which is used to make changes to the OverDrive unattended resource files.
- **Scale Configuration:** This item opens the **Scale Configuration** screen, which is used to connect to and configure unattended driver terminals and peripheral equipment.
- **Video Server Configuration:** This item opens the **Video Server Configuration** screen, which is used to configure the video server cameras and assign a location for storing images captured by the cameras.
- **Virtual Scale:** This item opens the virtual scale indicator or brings it to the front if it is behind another screen. The virtual scale indicator enables the computer operator to monitor the weight activity on one or more unattended driver terminals.

Windows Menu

The **Windows** menu is active only when a window is open.

- **Cascade:** This item arranges all open windows one in front of another so that only the top and left edges of the windows in back are visible.
- **Tile Vertical:** This item arranges all open windows side by side.
- **Tile Horizontal:** This item arranges all open windows one above another.
- **Close All:** This item closes all open windows.

Help Menu:

- **Contents:** For future use.
- **User Manual:** This item opens the OverDrive unattended software user's manual.
- **Register:** This item opens the **Registration** screen.

- **About:** This item displays information about the version of OverDrive software you are using.

Permissions

The user permissions that are assigned in OverDrive software can affect a user's access to the features in the OverDrive unattended application. The following list indicates which user permissions control access to unattended features.

Access Transaction Wizard: Allows the user to start and stop the OverDrive unattended terminal.

Application Settings Access: Allows access to the **Application Settings** screen.

Badge Modify: Allows the user to view and modify the **Badge Assignment** screen.

Badge View: Allows the user to view the **Badge Assignment** screen and query but not modify.

Capture Payment Access: Allows access to the **Capture Payment** screen.

Configure Scale Access: Allows the user to view and modify the **Configure Scale** window.

Digital Signature Access: Allows access to the **Capture Digital Signature** screen.

Isolated Images Modify: Allows the user to view and modify the isolated images.

Isolated Images View: Allows the user to view but not modify the isolated images.

Monitor OUDT Access: Allows access to the OUDT monitor.

Notifications Modify: Allows the user to view and delete notifications.

Notifications View: Allows the user to view but not delete notifications.

Payment Server Access: Allows access to the **Payment Server Configuration** screen.

Resource Editor Access: Allows the user to edit resource files.

Scale Configuration Modify: Allows the user to view and modify the **Scale Configuration** screen.

Scale Configuration View: Allows the user to view but not modify the **Scale Configuration** screen.

Superuser: Allows access to all features and screens.

Transaction Images Modify: Allows the user to view and modify the transaction images.

Transaction Images View: Allows the user to view but not modify the transaction images.

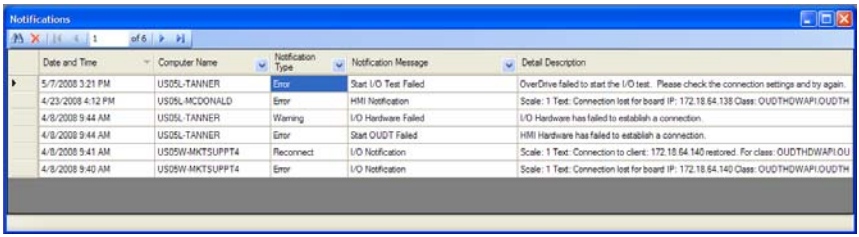
Transaction Maintenance Modify: Allows the user to void transactions in the transaction browser.

Video Server Configuration Access: Allows access to the **Video Server Configuration** screen.

Notifications

OverDrive unattended software keeps a log of error messages and other notifications that the application sends to the operator. When a new notification is added to the log, the application will highlight the flag next to the **Notifications** message in the lower right-hand corner of the screen.

To view the notification log, click on the **Notifications** message.



The **Notifications** table includes filters that let you rearrange the messages listed in the table. Use the combo boxes in the table headings to select a filter that will display only the messages for a specific computer name, notification type, or notification message. Clicking the down arrow in the **Date and Time** heading switches between listing the messages according to the date or time of day when they were logged.

The following table lists the system's notifications and suggests possible solutions for correcting any errors.

Notification	Effects	Possible Solutions
Security Manager Failed to Initialize	• The login User ID and password cannot be validated. • The user cannot log in to the application.	• Check User ID and password. • Restart the application. • Contact local support team.
Start OUDT Failed	• Application cannot connect to the display, keyboard, and reader in the driver terminal. • Unattended application cannot operate.	• Check configured IP addresses and ports for each driver terminal. • Check NPort 5110 in driver terminal for correct settings.

Notification	Effects	Possible Solutions
		• Check Ethernet connections.
I/O Connection Failed	• Application cannot connect to the ARM100 I/O module in the driver terminal. • Transactions can be processed, but inputs and outputs will not operate. • If loops are configured and required to enter the scale, then transactions cannot be processed.	• Check configured IP address and port for the I/O module. • Check NPort 5130 in driver terminal for correct settings. • Check Ethernet connections.
Start I/O Test Failed	• Application cannot connect to the ARM100 I/O module in the driver terminal. • Inputs and outputs cannot be tested.	• Check configured IP addresses and ports for each driver terminal. • Check NPort 5110 in driver terminal for correct settings. • Check Ethernet connections.
Configure Report Failed	• The report cannot be viewed or printed.	• Make sure the report is in the correct directory. • Check the report configuration settings.
OUDT Print Report Failed	• The OUDT printer failed to print the report.	• Make sure the correct driver is installed for the OUDT printer. • Make sure the OUDT printer is configured correctly.
Destination Print Failed	• The destination printer failed to print the report.	• Make sure the destination is valid. • Make sure the destination printer is configured correctly.
Print Report Failed	• The default printer in the OverDrive system failed to print the report.	• Make sure the default printer is valid. • Make sure the default printer is configured correctly.
Login Failed for User / Encryption Manager Failed to Initialize	• The login User ID and password cannot be validated. • The user cannot log in to application.	• Restart the application. • Contact local support team.

Notification	Effects	Possible Solutions
Login Failed for User / Invalid Login User ID	• The User ID is invalid. • The user cannot log in to the application.	• Log in as a different user. • Add the User ID in the OverDrive system.
Login Failed for User / Specified User has Expired	• The User ID cannot be used to log in to the application.	• Log in as a different user. • Change the expiration date in the OverDrive system.
Login Failed for User / Invalid Password	• The password is invalid.	• Check the password. • Change the password in the OverDrive system.
Update of Scale File Failed	• OverDrive system was not updated with the newly configured scale.	• Reconfigure the scale in the unattended application.
Invalid Multi Axle Weight	• The transaction cannot be completed with an invalid multi-axle weight.	• Check the scale's units and increments against any completed passes. • Restart the transaction.
Invalid Static Axle Weight	• The transaction cannot be completed with an invalid static-axle weight.	• Check the scale's units and increments against any completed passes. • Restart the transaction.
ODBC Connection Failed	• Reports cannot be previewed or printed.	• Make sure the ODBC is configured correctly. • Check the report settings in the Application Settings form.
HMI Notification (Error)	• The driver terminal cannot operate without a connection to the HMI.	• Check the notification log for details about the error. • Check Ethernet connections.
HMI Notification (Reconnect)	• After reconnecting, the driver terminal should operate normally.	• Not applicable.
I/O Notification (Error)	• The driver terminal can operate without a connection to the I/O as long as loops are not configured and required for weighing.	• Check the notification log for details about the error. • Check Ethernet connections.
I/O Notification (Reconnect)	• After reconnecting, the inputs and outputs should operate normally.	• Not applicable.

Notification	Effects	Possible Solutions
Transaction Not Saved	• The operator or driver cannot save the transaction to the database.	• Verify database settings and communications. • Check Windows Event Viewer for details. • Contact local support team.
Account Actual Credit Not Updated	• The account's actual credit value was not updated after the transaction was completed.	• Check Windows Event Viewer for details. • Contact local support team.
Contract Data Not Updated	• Data relevant to a contract was not updated after the transaction was completed.	• Check Windows Event Viewer for details. • Contact local support team.
Product Data Not Updated	• Data relevant to a product was not updated after the transaction was completed.	• Check Windows Event Viewer for details. • Contact local support team.
Weights and Measures Record Not Saved	• A weights and measures record was not created after the transaction was completed.	• Check Windows Event Viewer for details. • Contact local support team.

How to Close the Program

There are several ways to close the OverDrive program:

- Click the **Close** button in the upper right-hand corner of the screen.
- Select **Exit** from the **File** menu.
- Click the **Control Menu** icon in the upper left-hand corner of the screen, and then select **Close** from the menu.
- Type Alt+F4 on your computer keyboard.

4 Scale Configuration

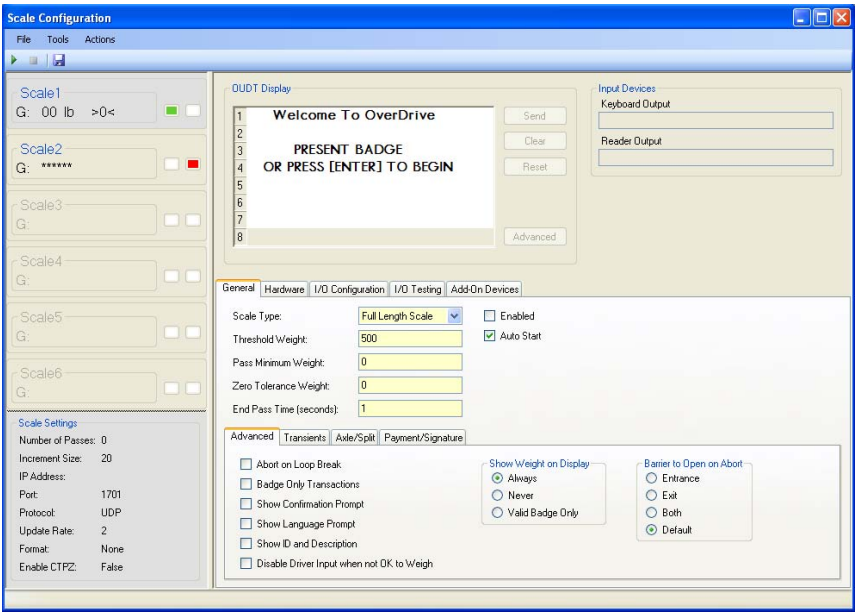
Introduction

OverDrive unattended software can communicate with unattended driver terminals that are used with as many as six scales (one or two terminals per scale). After installing an unattended driver terminal at a scale and connecting it to the computer network, use the tools described in this chapter to configure the scale.

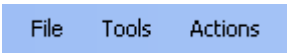
NOTE: Use the **Scale Configuration** screen to configure scales for both attended and unattended operation. If OverDrive unattended software is installed, do not use the **Hardware Setup** screen in the OverDrive application to configure scales or the hardware used with the scales. The **Hardware Setup** screen should be used only if the OverDrive unattended software is not installed.

Configuration

Open the **Scale Configuration** screen by selecting **Scale Configuration** in the **Tools** menu on the main **OverDrive** screen.



The menu bar at the top of the screen provides the following menus:



File Menu

- **Save:** This item saves changes to the configuration settings for an individual scale. You will be prompted to save or cancel configuration changes for a scale before selecting another scale.
- **Exit:** This item closes the screen.

Tools Menu

- **Configure Scale:** This item opens the **Configure Scale** window for the scale that is selected. The scale configuration settings are described later in this chapter.

- **Monitor OUDT:** This item opens the OUDT monitor, which lets you view activity on the unattended driver terminal for the scale that is selected. The OUDT monitor is described in Chapter 5.
- **Resource Editor:** This item opens the resource editor, which is used to make changes to the OverDrive unattended resource files. The resource editor is described in Chapter 5.

Actions Menu

- **Start OUDT:** This item starts communication with the unattended driver terminal(s) at the scale that is selected. If the **Auto Start** feature is enabled, communication will start automatically when you log in to the OverDrive unattended application.
- **Stop OUDT:** This item stops communication with the unattended driver terminal(s) at the scale that is selected. Communication will stop automatically when you log out of the OverDrive unattended application.
- **Zero Scale:** This item zeroes the scale that is selected. In order for the system to zero the scale, the scale must be empty (within the zero range set for the scale terminal).
- **Test Keyboard:** This item allows you to test the keyboard on the unattended driver terminal(s) at the scale that is selected. Click the menu item to enable it (placing a check mark next to it) or disable it (removing the check mark). With the test function enabled, press each key on the unattended driver terminal's keyboard. When you press a key, the signal that the key sends will be displayed in the **Keyboard Output** field on the **OUDT Configuration** screen. Transactions cannot be processed at an unattended driver terminal while the test keyboard feature is enabled.

Tool Bar

The tool bar provides quick access to several frequently used commands from the menus.

Start OUDT

This button starts communication with the unattended driver terminal(s) at the scale that is selected. If the **Auto Start** feature is enabled, communication will start automatically when you log in to the OverDrive unattended application.

Stop OUDT

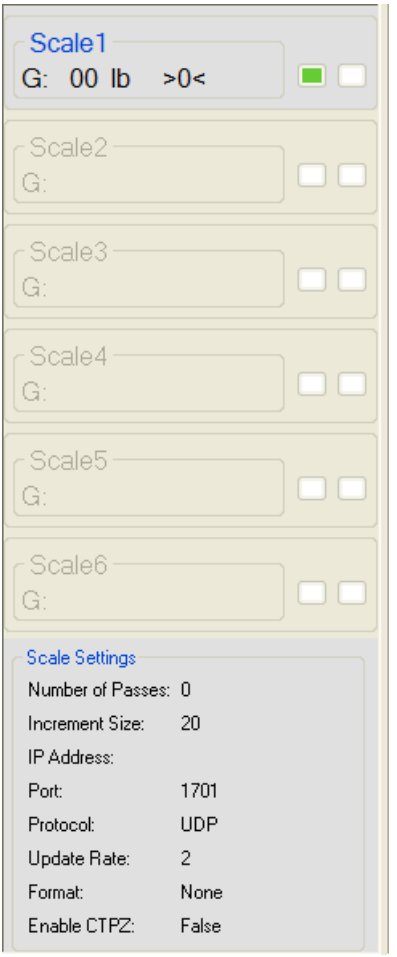
This button stops communication with the unattended driver terminal(s) at the scale that is selected. Communication will stop automatically when you log out of the OverDrive unattended application.

Save

This button saves changes to the configuration settings.

Configure Scales

OverDrive unattended software can communicate with as many as six scales. The status of each scale is shown in the sidebar on the left-hand side of the **Scale Configuration** screen.

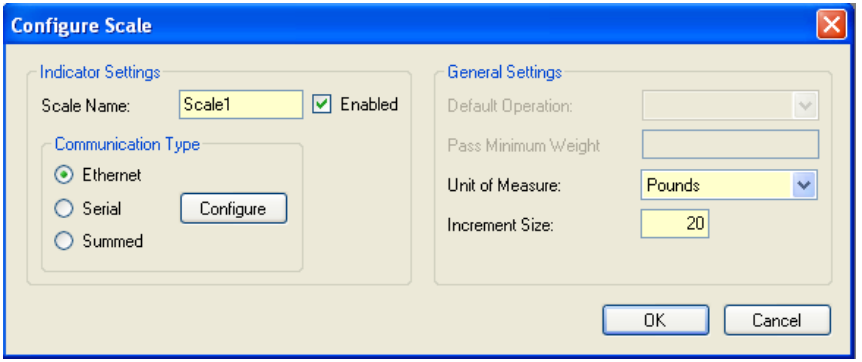


For each scale, the sidebar displays the scale name, the gross weight currently on the scale, a symbol (~) to indicate when the scale is in motion, and a symbol (>0<) to indicate that an empty scale is at zero. Asterisks (******) in the weight field indicate that the load on the scale is under/over the allowable weight range.

Status lights indicate whether the scale is connected (green) or disconnected (red).

To select a scale, click on it. The settings for the scale that is selected are shown at the bottom of the sidebar. If the scale has not been configured, no scale settings will be shown. Each scale is configured individually. Any changes that you make to the configuration settings will affect only the scale that is selected.

To configure a scale, select it and then open the **Configure Scale** window by selecting **Configure Scale** in the **Tools** menu on the **Scale Configuration** screen (or right click on the scale to open the menu).



Enter the configuration settings for the scale and then click the **OK** button to save the settings or the **Cancel** button to close the window without saving them.

Scale Name: A default name is assigned for each scale. Enter a new name if desired (maximum of nine characters).

Enabled: Check the box to enable the scale. The scale will not display weights if it is not enabled.

Communication Type: Select the type of communication connection to be used for the scale (Ethernet, Serial, or Summed). You will then need to configure the connection by clicking the **Configure** button and entering the settings. The **Ethernet**, **Serial**, and **Summed Scale** configuration windows are described in the following sections.

NOTE: If you configure a summed scale, it will work for unattended operation but not for attended operation.

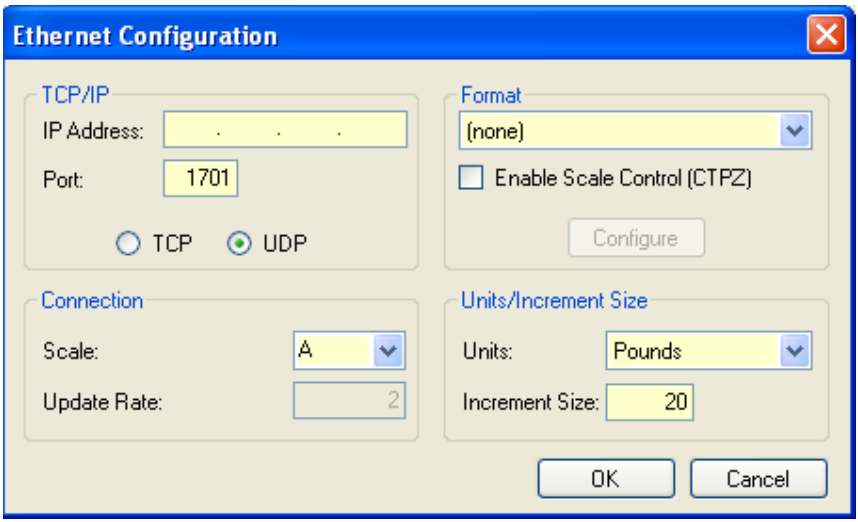
Default Operation: For future use.

Pass Minimum Weight: For future use.

Unit of Measure:	Use the combo box to select the unit of measure that will be used for weighing (Kilograms, Metric Tons, Pounds, or Tons). The unit must match the unit selected for the scale terminal and OverDrive application setup options.
Increment Size:	Enter the increment size for the scale. The number that you enter will correspond to the unit selected in the **Unit of Measure** combo box. The increment size must match the increment size selected for the scale terminal and OverDrive application setup options.

Ethernet Configuration

If you are using an Ethernet connection to transmit data between the scale terminal and computer, select the **Ethernet** radio button and then click the **Configure** button to open the **Ethernet Configuration** window.



Enter the Ethernet configuration settings for the scale terminal and then click the **OK** button to save the settings or the **Cancel** button to close the window without saving them. The settings must match those of the terminal that is connected to the scale (for example, an IND310 terminal).

IP Address:	Enter the IP address for the scale terminal.
Port:	Enter the number for the scale terminal's communication port that will be used for the Ethernet connection.
TCP/UDP:	Select a radio button to indicate whether the connection will use Transmission Control Protocol (TCP) or User Datagram Protocol (UDP).
Scale:	If you are using a Jaguar Shared Data format, select a scale (A, B, C, or D) from the combo box. E is used for a summed scale.
Update Rate:	The default value is set to 2, indicating how many times per second the data from the scale will be updated.

Format: Select the format for the type of terminal that is connected to the scale. Jaguar Shared Data is used for a JAGXTREME terminal. If you select a custom format, click the **Configure** button to configure the format. Custom formats are described later in this chapter.

Enable Scale Control (CTPZ): Check this box to enable the scale to respond when a command to zero the scale is entered from a computer keyboard. The scale terminal must be configured to accept remote zero commands.

Summed Scales

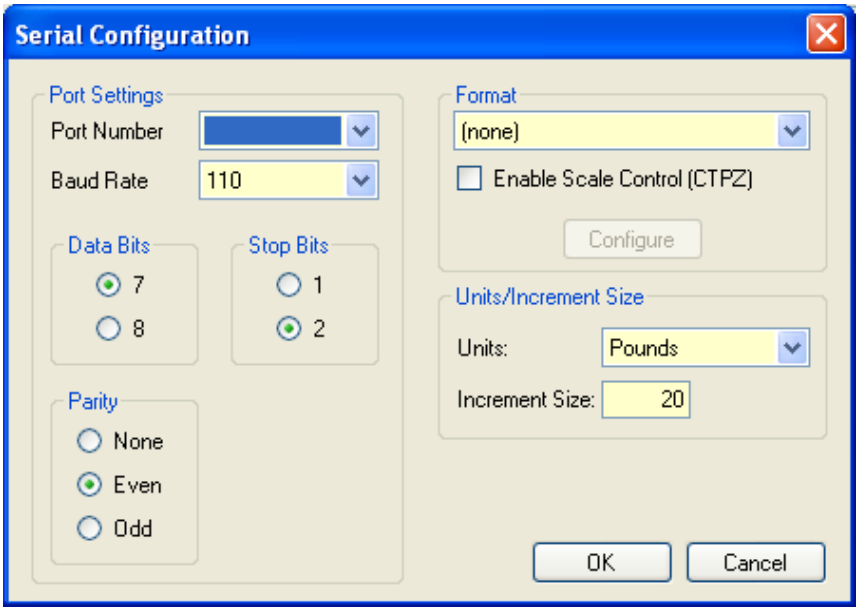
If you are configuring an Ethernet connection for a summed scale (see page 4-11), the following fields will be included on the **Ethernet Configuration** window:

Units: The unit selected for the summed scale must match the unit that is used for the scales that are being summed.

Increment Size: The increment size for the summed scale must match the increment size that is used for the scales that are being summed.

Serial Configuration

If you are using a serial connection to transmit data between the scale terminal and computer, select the **Serial** radio button and then click the **Configure** button to open the **Serial Configuration** window.



Enter the serial configuration settings for the scale terminal and then click the **OK** button to save the settings or the **Cancel** button to close the window without saving them. The settings must match those of the terminal that is connected to the scale (for example, an IND310 terminal).

Port Number:	Select a communication port (1 to 8) from the combo box.
Baud Rate:	Select a baud rate from the combo box.
Data Bits:	Use the radio buttons to select 7 or 8 data bits.
Stop Bits:	Use the radio buttons to select 1 or 2 stop bits.
Parity:	Use the radio buttons to select the parity (None, Even, or Odd).
Format:	Select the serial format from the combo box. This setting must match the format of the scale terminal you are using. If you select a custom format, click

the **Configure** button to configure the format. Custom formats are described later in this chapter.

Enable Scale Control (CTPZ): Check this box to enable the scale to respond when a command to zero the scale is entered from a computer keyboard. The scale terminal must be configured to accept remote zero commands.

Summed Scales

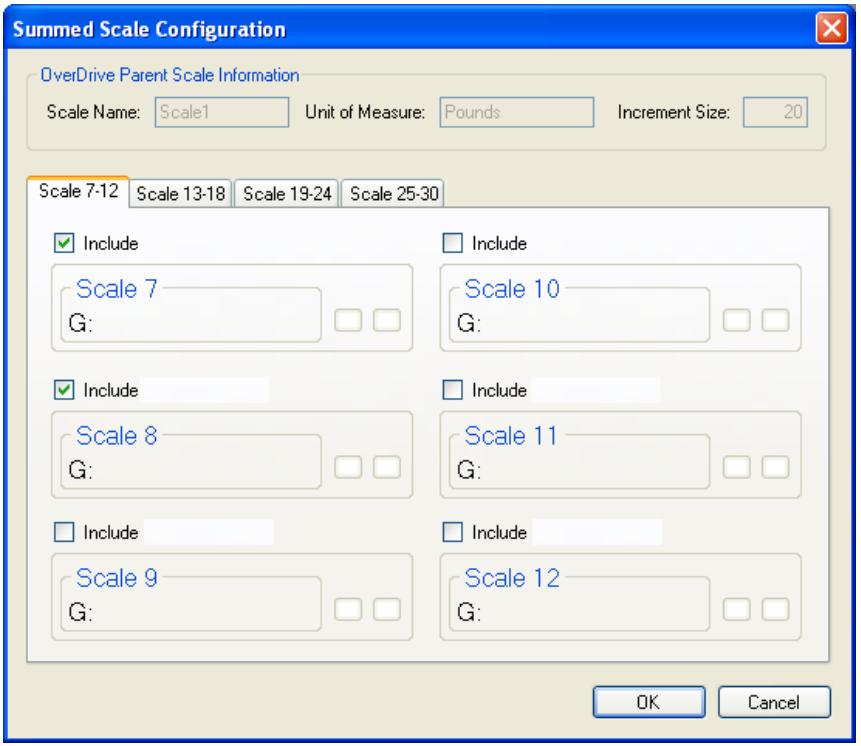
If you are configuring a serial connection for a summed scale (see page 4-11), the following fields will be included on the **Serial Configuration** window:

Units: The unit selected for the summed scale must match the unit that is used for the scales that are being summed.

Increment Size: The increment size for the summed scale must match the increment size that is used for the scales that are being summed.

Summed Scale Configuration

A summed scale provides a weight reading that is the sum of the weights from two or more other scales. If you are using a scale for summing weights, select the **Summed** radio button and then click the **Configure** button to open the **Summed Scale Configuration** window.



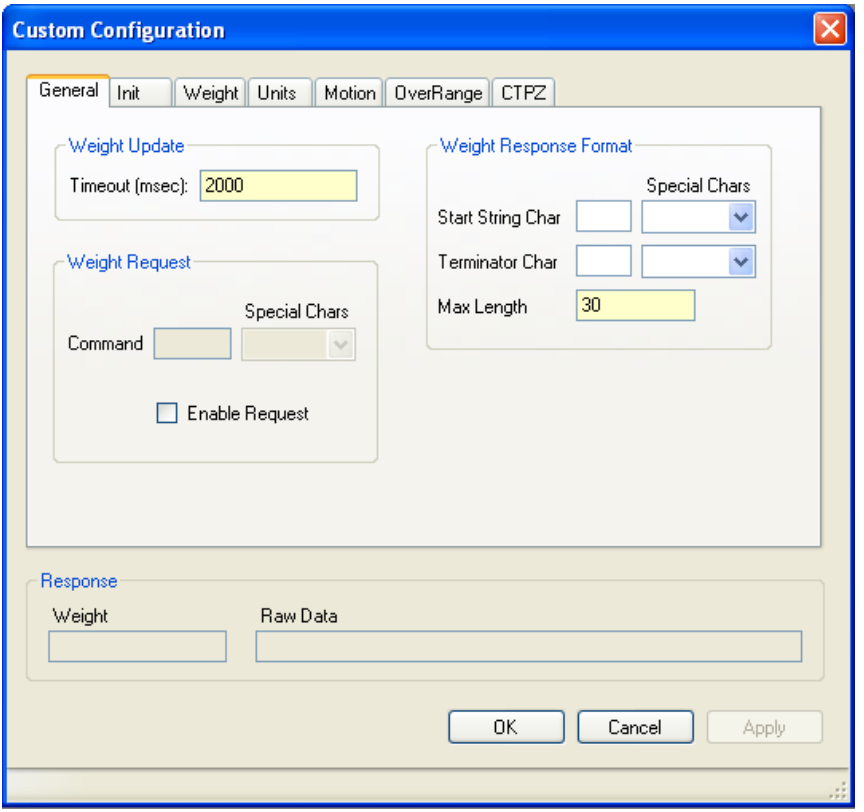
The scale name, unit of measure, and increment size for the summed scale are displayed at the top of the window. The tabs show the scales that are available to be connected to the summed scale. Check the box for each scale that you wish to sum. Right click on each scale and configure it for a serial or Ethernet connection (or clear an existing configuration). Then click the **OK** button to save the settings or the **Cancel** button to close the window without saving them.

NOTE: If you configure a summed scale, it will work for unattended operation but not for attended operation.

Custom Formats

You can configure a custom Ethernet or serial format for a scale terminal. NOTE: With a custom configuration, it is possible that some of a scale terminal's features might not be supported.

Select **Custom** in the **Format** combo box, and then click the **Configure** button. When the **Custom Configuration** screen opens, set the options on the screen's tabs to match the configuration of the scale terminal. Then click the **OK** button to save the custom format or the **Cancel** button to close the screen without saving the changes.



The **Apply** button lets you see how changes to the settings affect the weight reading, so that you can adjust the settings before saving them. Change the settings in the data fields on one of the tabs, and then click the **Apply** button. The actual weight and the raw data for

the weight will be displayed in the **Response** data fields. The changes will not be saved unless you click the **OK** button.

Weight Update

Timeout (msec): Enter the length of time (in milliseconds) that the system will pause between sending requests for a weight. This is for demand-mode terminals only.

Weight Request

Command: The command used to request a weight if the terminal is in demand mode. This is entered automatically when you select a special character.

Special Chars: The character that the terminal must receive to start sending a weight.

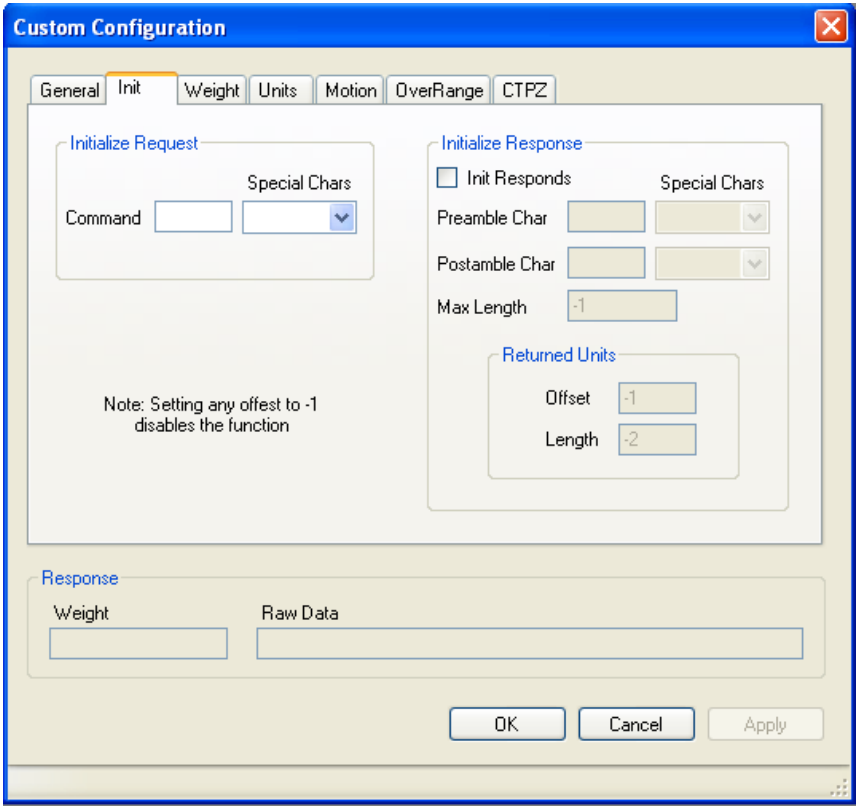
Enable Request: Check this box to require the system to request the weight. Checking this box enables the other two fields.

Weight Response Format

Start String Char: In the combo box, select the character that represents the start of the string. The corresponding ASCII character is entered automatically in the parallel field.

Terminator Char: In the combo box, select the character that represents the end of the string. The corresponding ASCII character is entered automatically in the parallel field.

Max Length: The maximum length of the entire string.



The **Init** tab is used to configure the system to communicate with a terminal that uses demand mode and returns a string containing the weight. It is not needed for terminals that are in continuous mode.

Initialize Request

Command: The command used to initialize the terminal to request the string. This is entered automatically when you select the special character.

Special Char: The character that the terminal must receive to start sending the string.

Initialize Response

Init Responds: Checking this box enables configuration of the preamble and postamble to the response from the terminal.

Preamble Char: In the combo box, select the special character that represents the start of the string with which the terminal will respond.

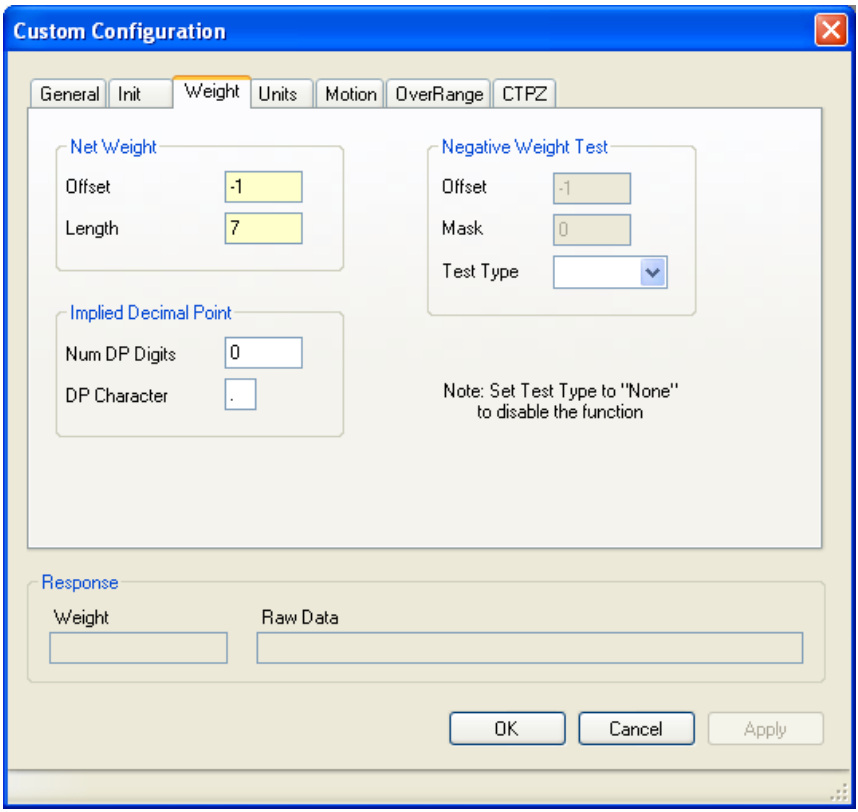
Postamble Char: In the combo box, select the special character that represents the end of the string with which the terminal will respond.

Max Length: Enter the maximum length of the entire string.

Returned Units

Offset: The number of characters from the left end of the string to the character(s) representing the weight unit. Setting the offset to -1 disables the function.

Length: The number of characters used to represent the weight unit.



Net Weight

If the string contains the net weight and another weight (gross weight, tare weight, etc.), indicate which weight is the net weight. If the string contains only one weight, this setting is not needed.

Offset: The number of characters from the left end of the string to the character(s) representing the net weight.

Length: The number of characters used to represent the net weight.

Implied Decimal Point

If the terminal uses a decimal point, these settings will determine how the system reads it.

Num DP Digits: Enter the number of digits that follow the decimal point.

DP Character: Enter the ASCII code for the character that represents the decimal point.

Negative Weight Test

These settings indicate how to check for a negative weight.

Offset: The number of characters from the left end of the string to the character(s) representing the negative weight.

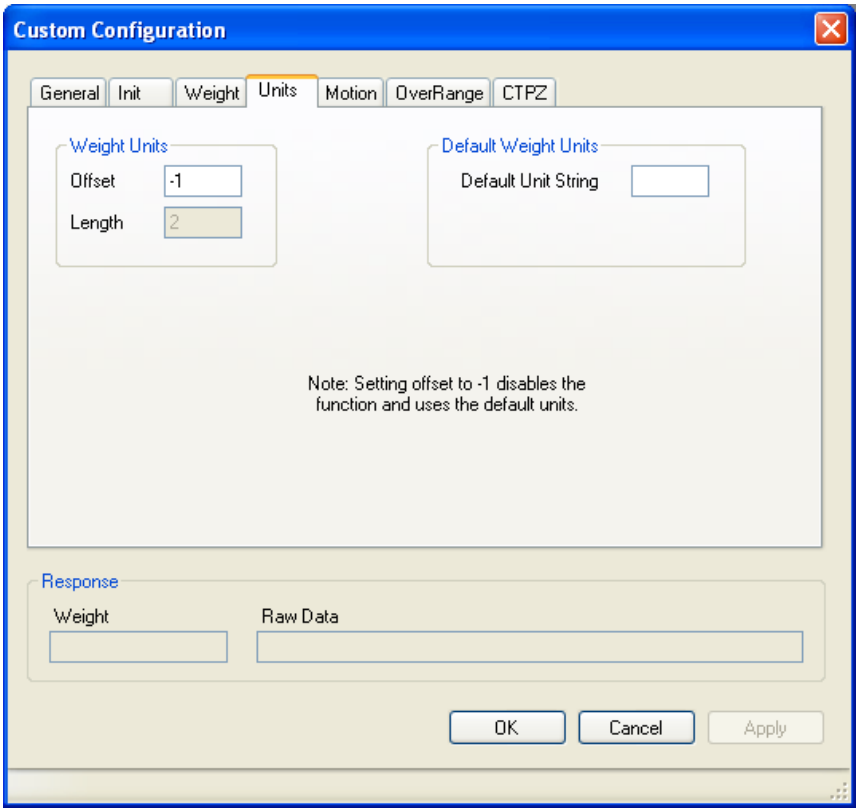
Mask: Enter the ASCII character that represents the negative weight indication.

Test Type: **And** and **NAnd** are not used in this setting.

Equal states that the desired result is equal to the mask. For example, if you set the mask to 45 (ASCII code for the - sign) and select **Equal**, a "-" in the string will be interpreted as a negative weight.

Not Equal states that the desired result is not equal to the mask. For example, if you set the mask to 45 (ASCII code for the - sign) and select **Not Equal**, anything but a "-" in the string will be interpreted as a negative weight.

None disables the function.



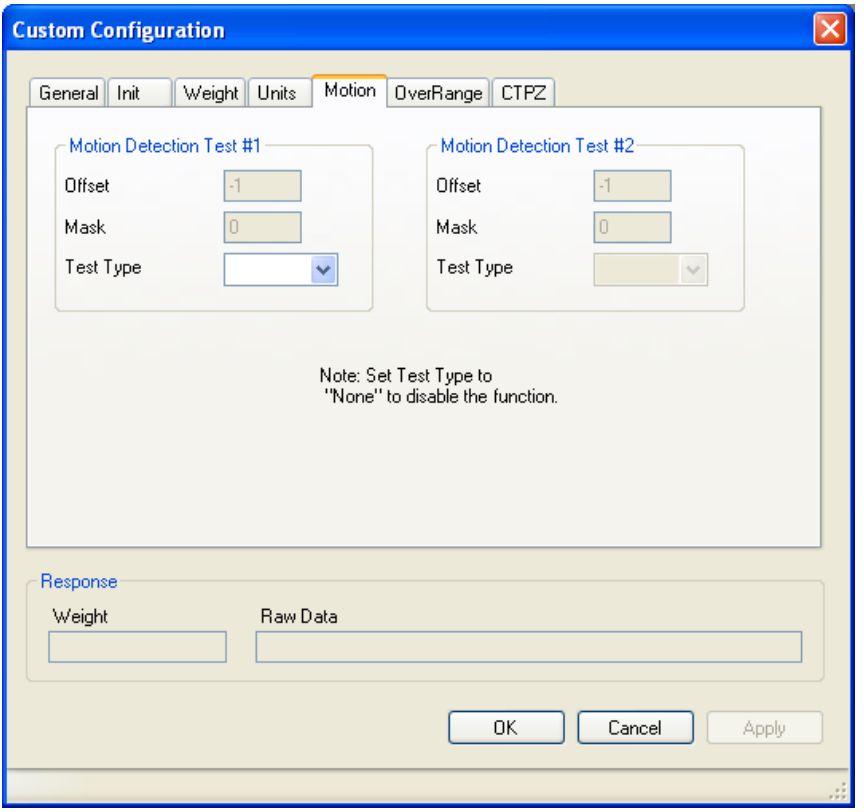
Weight Units

Offset: The number of characters from the left end of the string to the character(s) representing the weighing unit. Setting the offset to -1 disables the function and uses the default units.

Length: The number of characters used to represent the weighing unit.

Default Weight Units

Default Unit String: Enter a default unit if you do not wish to receive the unit from the terminal or if the unit does not exist or is not accessible. The system will use this unit when processing transactions.



Motion Detection Test #1

Offset: The number of characters from the left end of the string to the character(s) representing motion.

Mask: Enter the ASCII character that represents motion.

Test Type: **And** states that if the desired result and the result from motion detection test #2 are found, then interpret as in motion.

NAnd states that if the desired result or the result from motion detection test #2 are found, then interpret as in motion.

Equal states that the desired result is equal to the mask. For example, if you set the mask to 126 (ASCII code for the ~ sign) and select **Equal**, a "~" in the string will be interpreted as in motion. Use this setting if there is no motion detection test #2.

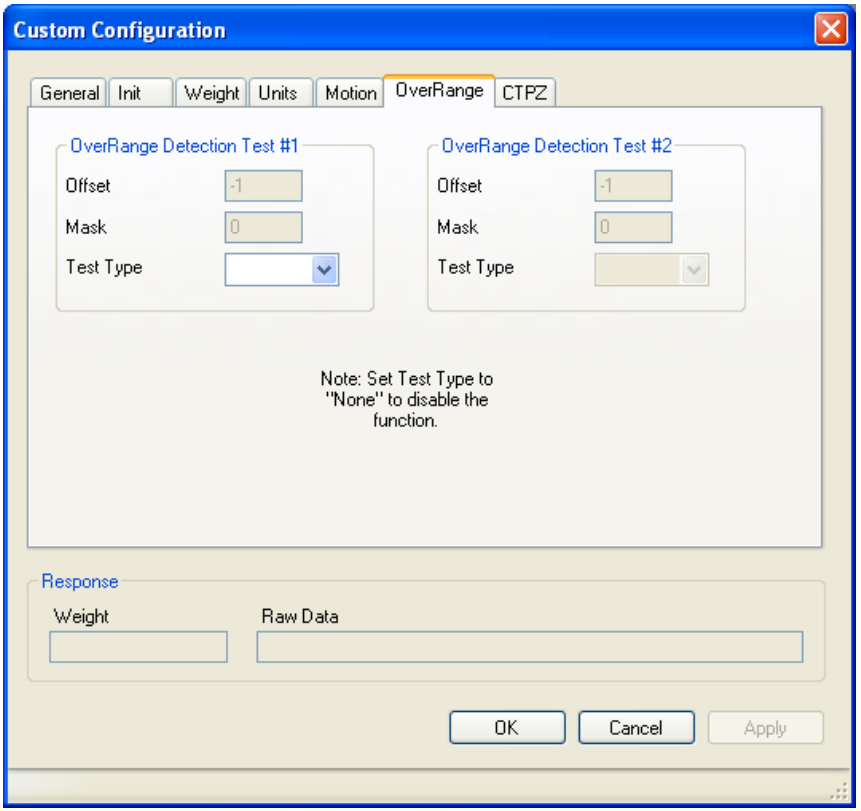
Not Equal states that the desired result is not equal to the mask. For example, if you set the mask to 126 (ASCII code for the ~ sign) and

select **Not Equal**, anything but a "~" in the string will be interpreted as in motion. Use this setting if there is no motion detection test #2.

None disables the function.

Motion Detection Test #2

Use this test if there is more than one character representing motion. See Motion Detection Test #1 for an explanation of the settings.



Overrange Detection Test #1

Offset: The number of characters from the left end of the string to the character(s) representing overrange.

Mask: Enter the ASCII character that represents overrange.

Test Type: **And** states that if the desired result and the result from overrange detection test #2 are found, then interpret as overrange.

NAnd states that if the desired result or the result from overrange detection test #2 are found, then interpret as overrange.

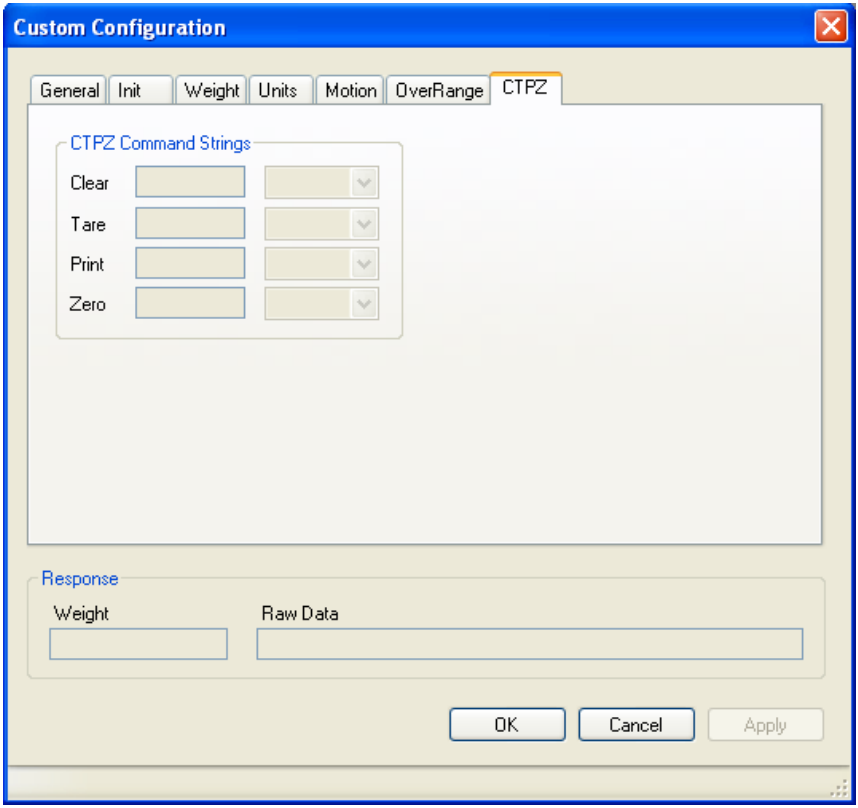
Equal states that the desired result is equal to the mask. For example, if you set the mask to 126 (ASCII code for the ~ sign) and select **Equal**, a "~" in the string will be interpreted as overrange. Use this setting if there is no overrange detection test #2.

Not Equal states that the desired result is not equal to the mask. For example, if you set the mask to 126 (ASCII code for the ~ sign) and select **Not Equal**, anything but a "~" in the string will be interpreted as overrange. Use this setting if there is no overrange detection test #2.

None disables the function.

Overrange Detection Test #2

Use this test if there is more than one character representing overrange. See Overrange Detection Test #1 for an explanation of the settings.



The fields on the CTPZ tab will be active only if the **Enable Scale Control (CTPZ)** box is checked on the **Ethernet Configure** or **Serial Configure** window.

CTPZ Command Strings

Clear: In the combo box, select the character representing the clear command that the terminal uses. The correct ASCII character will then be entered into the blank field.

Tare: In the combo box, select the character representing the tare command that the terminal uses. The correct ASCII character will then be entered into the blank field.

Print: In the combo box, select the character representing the print command that the terminal uses. The correct ASCII character will then be entered into the blank field.

Zero:	In the combo box, select the character representing the zero command that the terminal uses. The correct ASCII character will then be entered into the blank field.

ASCII Characters

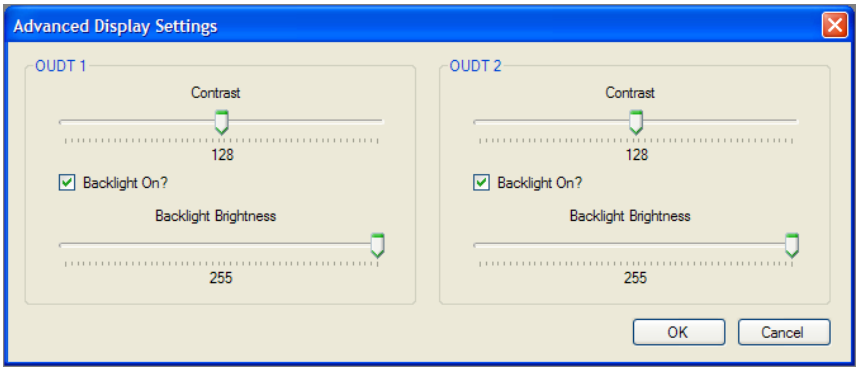
ASCII	CHR		ASCII	CHR		ASCII	CHR		ASCII	CHR
0	NUL		32	SP		64	@		96	`
1	SOH		33	!		65	A		97	a
2	STX		34	"		66	B		98	b
3	ETX		35	#		67	C		99	c
4	EOT		36	$		68	D		100	d
5	ENQ		37	%		69	E		101	e
6	ACK		38	&		70	F		102	f
7	BEL		39	'		71	G		103	g
8	BS		40	(		72	H		104	h
9	HT		41	)		73	I		105	i
10	LF		42	*		74	J		106	j
11	VT		43	+		75	K		107	k
12	FF		44	,		76	L		108	l
13	CR		45	-		77	M		109	m
14	SO		46	.		78	N		110	n
15	SI		47	/		79	O		111	o
16	DLE		48	0		80	P		112	p
17	DC1		49	1		81	Q		113	q
18	DC2		50	2		82	R		114	r
19	DC3		51	3		83	S		115	s
20	DC4		52	4		84	T		116	t
21	NAK		53	5		85	U		117	u
22	SYN		54	6		86	V		118	v
23	ETB		55	7		87	W		119	w
24	CAN		56	8		88	X		120	x
25	EM		57	9		89	Y		121	y
26	SUB		58	:		90	Z		122	z
27	ESC		59	;		91	[		123	{
28	FS		60	<		92	\		124	|
29	GS		61	=		93	]		125	}
30	RS		62	>		94	^		126	~
31	US		63	?		95	_		127	DEL

OUDT Display

The **Scale Configuration** screen lets you view activity on the unattended driver terminal's display and enter messages. This makes it easy to communicate with drivers who are processing transactions at the terminal. Seven lines of text are available for typing messages. The eighth line is used for displaying the weight.

1. Click the **Clear** button to clear the prompt from the screen and enable the **Send** button.
2. Place the cursor on the desired line and type a message.
3. Click the **Send** button to display the message on the unattended driver terminal at the scale.
4. Clicking the **Clear** button will delete the message. To send additional messages, repeat steps 2 and 3.
5. When you are done communicating with the driver, click the **Reset** button to reset the terminal so that it displays the most recent prompt.

The **Advanced** button opens the **Advanced Display Settings** window, which is used to adjust the visibility of the unattended driver terminal's display. If there are two unattended driver terminals at a scale, you can enter separate settings for each terminal.



Contrast: Move the pointer along the sliding scale to adjust the contrast of the terminal's display.

Backlight On?: Place a check mark in the box to turn on the display's backlight, or remove the check mark to turn off the backlight.

Backlight Brightness: Move the pointer along the sliding scale to adjust the brightness of the backlight.

Input Devices

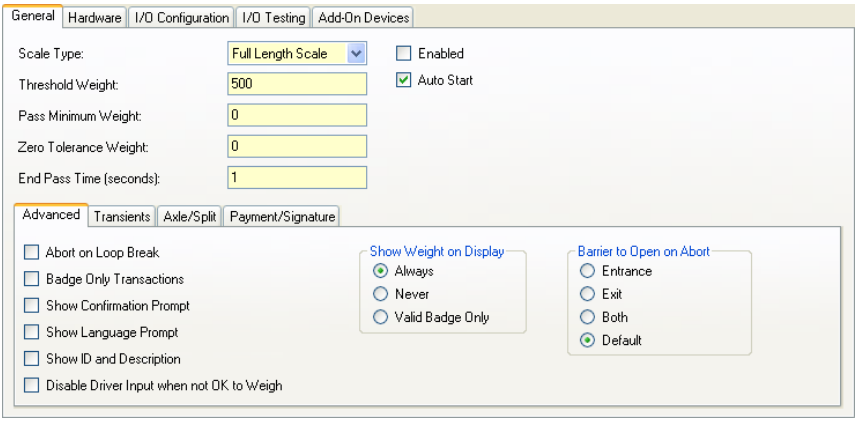
These fields are used to monitor the data that the driver enters at the unattended driver terminal.

Keyboard Output: This field shows the data that the driver enters using the unattended driver terminal's keyboard. The data will not appear in the field until the driver selects the **Enter** command.

Reader Output: This field shows the data that the driver enters using the unattended driver terminal's badge reader.

General Tab

The **General** tab lets you enter basic information about how the unattended driver terminal will operate.



Scale Type: Use the **Scale Type** combo box to select **Full Length Scale**, **Axle Scale**, or **Split Weigh Scale**. A full-length scale is used to weigh an entire vehicle. An axle scale or split-weigh scale is used to weigh portions of a vehicle separately and then sum the weights together.

Threshold Weight: Enter a threshold weight. When the weight reading reaches this level, it signals to the system that a vehicle is on the scale. This weight should be higher than the pass minimum weight.

Pass Minimum Weight: Enter a pass minimum weight. When the weight reading is below this level, it signals to the system that a vehicle has left the scale and a new pass can begin. The pass minimum weight must be greater than or equal to the zero-tolerance weight.

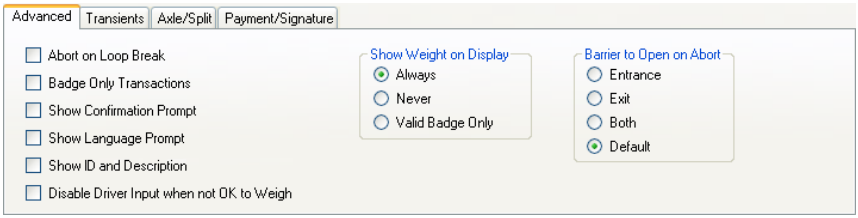
Zero Tolerance Weight: Enter a weight range (± the number entered) within which the scale is considered to be at zero and ready to begin a transaction. This weight is used only when a scale is equipped with traffic loops, and it must be less than or equal to the pass minimum weight.

End Pass Time (seconds): Enter the number of seconds that you want the traffic lights to remain red after the weight goes below the threshold weight value.

Enabled: Check this box to enable the scale for use with an unattended driver terminal. The scale must be enabled in order for the unattended driver terminal to be started.

Auto Start: Check this box if you want the unattended driver terminal(s) to start automatically each time a user logs in to the OverDrive unattended application. If the box is not checked, the operator must start each terminal manually.

Advanced Tab



Abort on Loop Break: Check this box if you want the current transaction to be aborted when there is a loop break. This feature aborts the transaction that is being processed for a vehicle on the scale if a second vehicle drives over the scale's traffic loop while the transaction is in progress.

Badge Only Transactions: Check this box to allow only transactions that are initiated with a badge. This feature requires drivers to start unattended transactions by identifying themselves with a badge (additional data can be entered using the keyboard).

Show Confirmation Prompt: Check this box to display a confirmation prompt on the unattended driver terminal. The confirmation tells the driver that the system has captured the information required for a pass and prompts the driver to accept or cancel the pass.

Show Language Prompt: Check this box to display a language selection prompt on the unattended driver terminal. The

prompt allows drivers to switch the text on the display from the default language to another language.

Show ID and Description: Check this box to show both the ID and description for database records (such as products) that are displayed on the unattended driver terminal. If the box is not checked, the terminal will show only the ID. Because of space limitations, the terminal's display will not show long descriptions in their entirety.

Disable Driver Input when not OK to Weigh: Check this box to prevent drivers from entering data at the unattended driver terminal until all requirements for weighing have been met (for example, the weight on the scale is above the threshold weight).

Show Weight on Display: Use the radio buttons to define when the current weight is shown on the unattended driver terminal's display (Always, Never, or Valid Badge Only). The third option displays the weight only when a valid badge has been used to identify the vehicle that is on the scale.

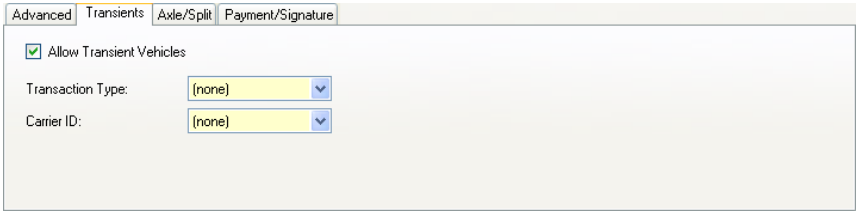
Barrier to Open on Abort: When a scale is equipped with barriers, OverDrive unattended software allows the driver to abort a transaction and open the barriers so that the vehicle can exit the scale. Use the radio buttons to define which barriers will open automatically when a transaction is aborted.

- Entrance: Opens the entrance barrier only.
- Exit: Opens the exit barrier only.
- Both: Opens both entrance and exit barriers.
- Default: Opens the barrier in the current direction of travel.

NOTE: The radio buttons are active only if the current I/O configuration includes barriers.

Transients Tab

Transient vehicles are vehicles for which there is no database record in the **Vehicle** table.



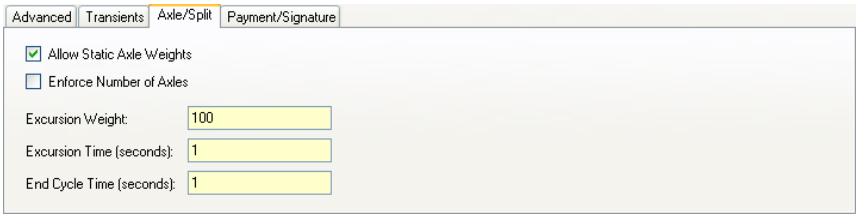
Allow Transient Vehicles: Check this box to enable the unattended driver terminal to process transactions for transient vehicles.

The following two fields will be active only when the **Allow Transient Vehicles** box is checked.

Transaction Type: Select the transaction type to be used for transient vehicles. To add a transaction type to the combo box, you must create it with the OverDrive Transaction Type Wizard.

Carrier ID: Select the Carrier ID that will be assigned for all transient vehicles. In order to complete a vehicle-weighing transaction, the vehicle must be assigned to a carrier. Use the OverDrive Carrier form to create a Carrier ID for use with transient vehicles.

Axle/Split Tab



Axle and split weighing involve capturing a series of weights and require a driver to reposition a vehicle on the scale before each weight in the series can be captured. Each time a vehicle is repositioned on the scale is called an excursion. The excursion weight and excursion time settings work together to signal when an

excursion has been completed and the scale is ready to capture the next weight in the series. For example, after the first weight in an axle-weighing sequence has been captured, a green light will signal the driver to start an excursion by moving the vehicle to the second weighing position. The light will remain green for at least the excursion time while waiting for the weight on the scale to increase or decrease by at least the excursion weight. When both conditions have been met (the minimum excursion time has elapsed and the minimum excursion weight change has occurred), a red light will signal that the excursion has been completed and the next weight in the series can be captured.

Allow Static Axle Weights: Check this box to enable static-axle weighing on a full-length scale. To start this type of weighing transaction, position the truck's first axle on the scale. When the weight of the axle is captured, the traffic light signals the truck to move forward to position the first and second axles on the scale. The weight of the two axles is then captured. The truck continues moving forward, capturing the weight of an additional axle for each excursion until the entire truck is positioned on the scale for the final weighing. The system will store the weight of the entire truck and use the excursion weights to calculate a weight for each axle.

The **Allow Static Axle Weights** check box is active only when full-length scale is selected as the scale type. For static-axle weighing, you must set a threshold weight (which must be lower than the weight of any truck's first axle), pass minimum weight, zero-tolerance weight, end-pass time, excursion weight, excursion time, and end-cycle time.

NOTE: The individual axle weights calculated during static axle weighing are for information only (they are not legal-for-trade). Depending on external factors, the sum of the axle weights might not equal the gross weight of the entire truck. Several factors can affect the axle weights, including the driver exiting the truck after the axle weights have been captured, the slope or grade of the approach ramp to the scale, and the angle or position of the truck on the scale.

Enforce Number of Axles: Check this box to require that the same number of axles is weighed for each pass of an axle-weighing transaction. This check box is active

only when axle weighing or static-axle weighing is enabled.

Excursion Weight: Enter an excursion weight. When the weight reading increases or decreases by at least this amount, it signals to the system that the vehicle has moved.

Excursion Time (seconds): Enter the minimum time (in seconds) that the system will signal to the driver that a weight has been captured. This signal is usually given by a green traffic light that lets the driver know it is okay to move the vehicle. The traffic light will remain green for at least the number of seconds entered in the data field.

End Cycle Time (seconds): Enter an end cycle time (5 to 10 seconds is typical). When a scale has been empty for this length of time, the system assumes that the final weight has been captured and the vehicle has left the scale.

Payment/Signature Tab

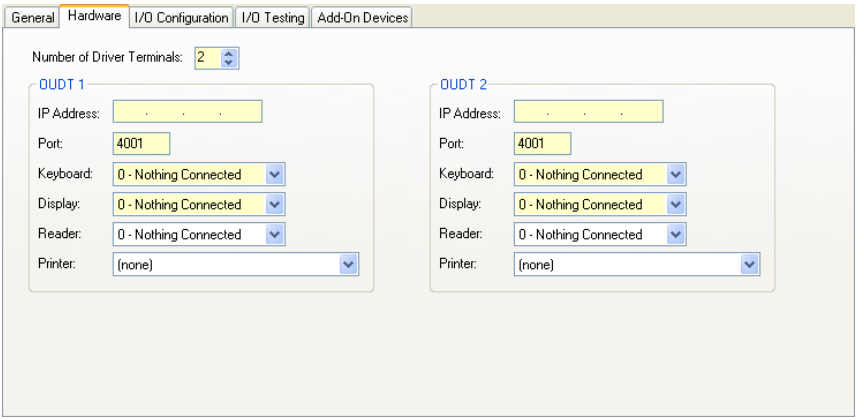
When payment is required to complete a transaction, the OverDrive application will place the transaction on hold until the payment is processed. If the unattended terminal is equipped with a credit card reader, the driver can complete the transaction by paying at the terminal with a credit card. Otherwise, the typical procedure is to have the unattended terminal issue a hold ticket to the driver when the final weighing of a transaction is completed. The driver then presents the ticket at the scale house or office and completes the transaction by paying the scale operator with a credit card, debit card, check, or cash. When a signature is required to complete a transaction, a similar procedure is used to prompt the driver to sign an electronic signature pad at the terminal or inside the scale house.

Use this tab to indicate how the unattended terminal will prompt drivers to complete their transactions.

1. If payment or signature is required, check one of the boxes:
   - Always on Hold - Requires drivers to pay inside.
   - Show Payment Prompt - Prompts drivers to choose between paying at the terminal or inside.
   - Always on Signature Hold - Requires drivers to sign inside.
   - Show Signature Prompt - Prompts drivers to choose between signing at the terminal or inside.
2. Select a ticket format in the **Payment Hold Ticket** or **Signature Hold Ticket** combo box. A hold ticket will be printed when a driver is required to pay or sign inside and when a driver chooses to pay or sign inside.

Hardware Tab

The **Hardware** tab lets you configure hardware connections for the unattended driver terminal(s).



Number of Driver Terminals: Select the number of unattended driver terminals used at the scale. Each scale can support as many as two terminals. You will be able to configure hardware connections for as many terminals as you select.

NOTE: Selecting "0" (zero) as the number of driver terminals for a scale enables you to use the scale without a driver terminal. It automatically puts the

scale in operator override mode, allowing a scale operator to process transactions from the OUDT monitor. Transactions processed from the OUDT monitor enable you to use the transaction wizard, video server, and credit card functions.

IP Address: Enter the IP address for the unattended driver terminal.

Port: Enter the communication port number for the unattended driver terminal.

Keyboard: Select the type of keyboard used by the terminal (none, numeric, or alphanumeric).

Display: Select the type of display used by the terminal (none or 240 x 128 LCD display).

Reader: Select the type of badge reader used by the terminal (none, AWID 26, Bar Code, SmartPass 5112 Tags, SmartPass 5510 Tags, or ERO badges).

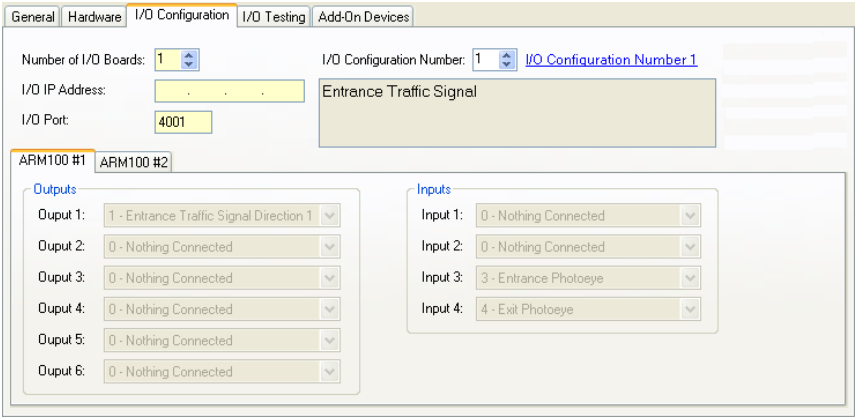
Printer: Select a printer for the unattended driver terminal. The printer selected in this field will print a ticket automatically for each unattended transaction. To list a printer in the combo box, you must install the printer driver.

NOTE: In order to print tickets at the unattended driver terminal, you must adjust the following settings in the OverDrive program:

- Select a ticket format for each account that will use the unattended driver terminal. The **Account** table allows you to select formats for inbound and outbound tickets.
- The **Destinations** tab on the **Report** screen is also used to select printers. If you select a printer on both the **Hardware** tab and the **Destinations** tab, the system will print two tickets for unattended transactions. To print tickets only at the unattended driver terminal, select a printer on the **Hardware** tab but do not specify a printer on the **Destinations** tab.

I/O Configuration Tab

The **I/O Configuration** tab lets you configure the inputs and outputs (I/O) for an unattended driver terminal.

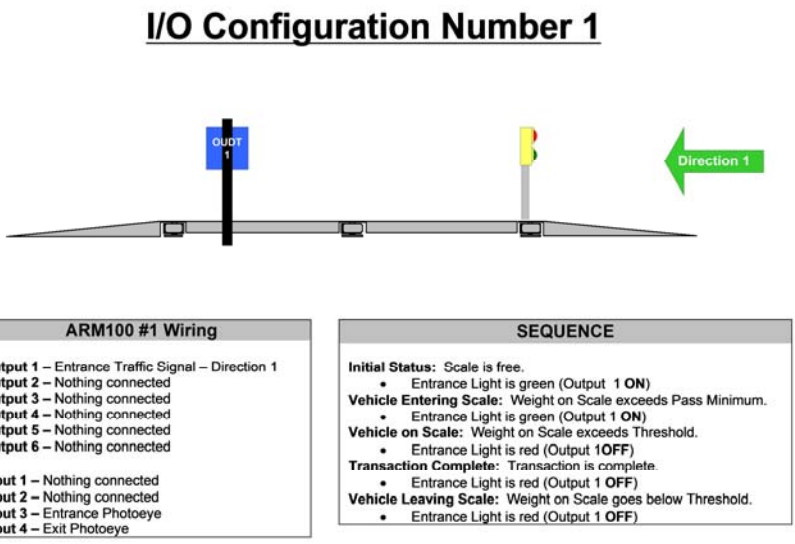


Number of I/O Boards: Select the number of I/O boards used for the scale. Each scale can support as many as two I/O boards. You will be able to configure inputs and outputs for as many I/O boards as you select.

I/O IP Address: Enter the IP address for the I/O board.

I/O Port: Enter the communication port number for the I/O board.

I/O Configuration Number: OverDrive unattended software provides predefined I/O configurations that simplify the setup procedure. Select one of the predefined configurations from the combo box to configure the input and output connections automatically. When you select a predefined I/O configuration number, a brief description of the setup is provided in the field below the combo box. To see a detailed description of the setup and how it would be used to process transactions, click on the link to the right of the combo box. The description of I/O Configuration Number 1 is shown below.



User-Defined I/O Configurations

If the predefined configurations do not meet your needs, you can define a custom I/O configuration. NOTE: With a custom configuration, it is possible that some types of connections might not be supported. We recommend that you test user-defined I/O settings to make sure that they work before installing the system on site.

Select 0 as the I/O Configuration Number and then use the combo boxes on the **ARM100 #1** tab to configure the input and output connections. If the scale has two I/O boards, use the combo boxes on the **ARM100 #2** tab to configure the input and output connections for the second board. The combo boxes allow you to select from the following options:

Outputs:

0 – Nothing Connected

1 – Entrance Traffic Signal Direction 1

2 – Exit Traffic Signal Direction 1

3 – Entrance Traffic Signal Direction 2

4 – Exit Traffic Signal Direction 2

5 – Entrance Barrier (Gate)

6 – Exit Barrier (Gate)

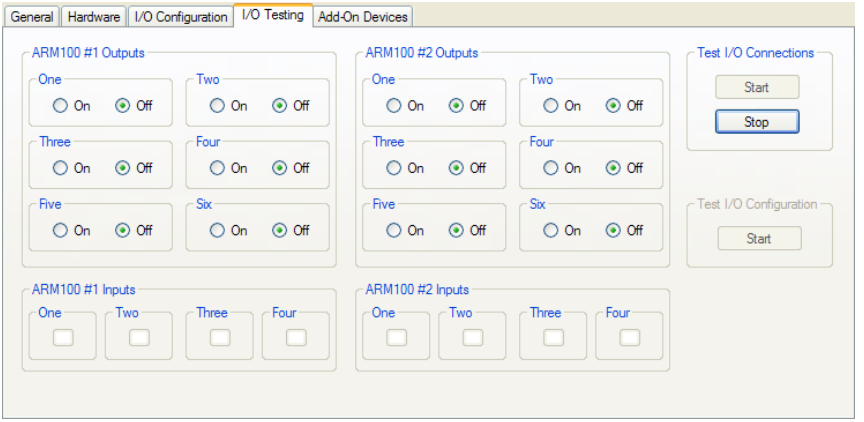
7 – Entrance Green Traffic Signal Direction 1

8 – Entrance Red Traffic Signal Direction 1

9 – Exit Green Traffic Signal Direction 1
10 – Exit Red Traffic Signal Direction 1
11 – Entrance Green Traffic Signal Direction 2
12 – Entrance Red Traffic Signal Direction 2
13 – Exit Green Traffic Signal Direction 2
14 – Exit Red Traffic Signal Direction 2
Inputs:
0 – Nothing Connected
1 – Entrance Loop
2 – Exit Loop
3 – Entrance Photoeye
4 – Exit Photoeye
5 – Push Button

I/O Testing Tab

The **I/O Testing** tab lets you test the I/O connections and configurations for a scale.



Test I/O Connections

Click the **Start** button to begin testing the I/O connections.

- Use the radio buttons to test the ARM100 outputs. Check each device to make sure it responds correctly as the radio button is switched on and off. For example, the traffic lights in predefined

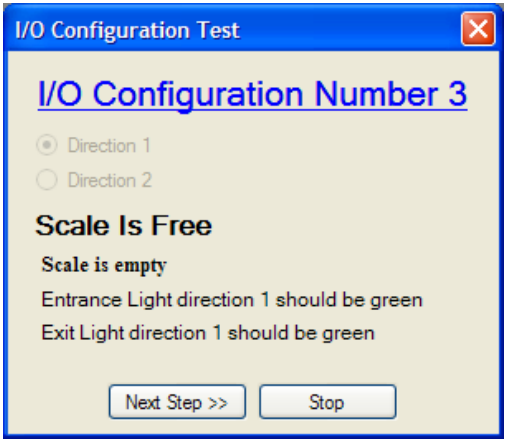
I/O Configuration Number 1 are set to turn green when the output is on and turn red when it is off.

- Activate the ARM100 inputs (for example, by driving onto a traffic loop). The indicator should display green when it is activated and red when it is not activated.

Click the **Stop** button to end the test procedure.

Test I/O Configuration

Click the **Start** button to test the predefined I/O configuration for the scale. The **I/O Configuration Test** window will open.

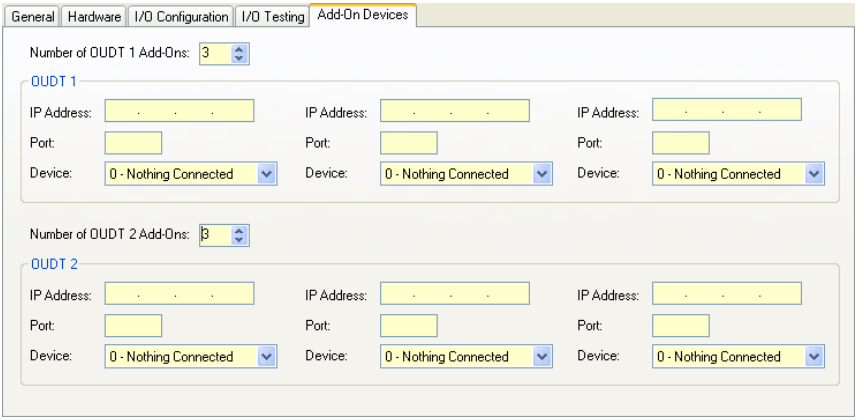


If a configuration allows traffic in two directions, use the radio buttons to select the direction being tested. Click the **Next Step** button to move from step to step through the predefined transaction procedure. At each step, the lights will indicate the status of the device for that step. Click the **Stop** button to end the test procedure.

NOTE: This feature is used to test predefined I/O configurations. It cannot be used to test custom I/O configurations.

Add-On Devices Tab

The **Add-On Devices** tab lets you connect to badge readers and other peripheral devices that are used with the unattended driver terminal. NOTE: Some add-on devices might not be compatible with the software. To find out if a device is compatible, contact your METTLER TOLEDO representative.



Number of Add-Ons:	Each unattended driver terminal can be connected to as many as three add-on devices. Select the number of devices for each terminal and then define the following information for each device:
IP Address:	Enter the IP address for the device.
Port:	Enter the communication port number for the device.
Device:	Select the type of communication device from those listed in the combo box: 0 – Nothing Connected 1 – AWID 26 2 – Barcode 3 – SmartPass 5112 Tags 4 – SmartPass 5510 Tags 5 – Credit Card Reader 6 – Digital Signature Pad 7 – ERO Badge

5 Other OverDrive Unattended Tools

Introduction

The OverDrive unattended **Tools** menu provides access to the following tools for configuring unattended operations and processing transactions:

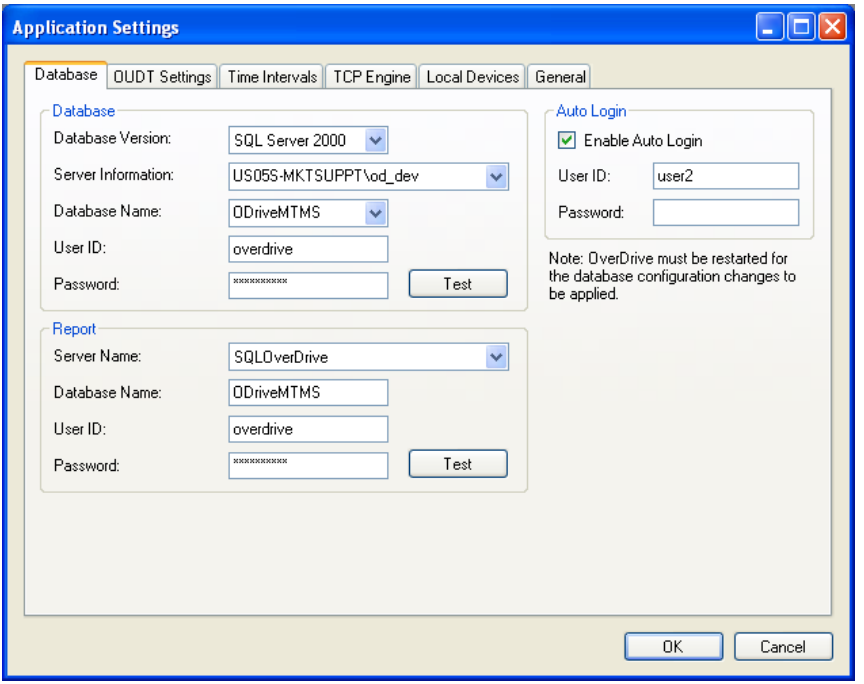
- Options (for future use)
- Application Settings
- Badge Assignment
- Capture Digital Signature
- Capture Payment
- Open Transaction Browser
- Payment Server Configuration
- Resource Editor
- Scale Configuration (see Chapter 4)
- Video Server Configuration
- Virtual Scale

Application Settings

The **Application Settings** screen is used to display database information, configure the function keys on the unattended driver terminal, set time intervals for the terminal, and set up communications for the video server and credit card options. To open the screen, select **Application Settings** in the **Tools** menu. After making changes to the application settings, click the **OK** button to save the changes or click the **Cancel** button to cancel them.

Database Tab

The **Database** tab displays settings for the OverDrive database and the ODBC driver.



Database

The **Database** fields display information about the OverDrive database.

Database Version: The software version of the OverDrive database.

Server Information: The location where the database is installed.

Database Name:	The name of the database.
User ID:	The user ID assigned to the database.
Password:	The password assigned to the database.
Test:	Click this button to test the connection to the database.

NOTE: Changing the data in these fields will affect the connection to the database and might prevent you from starting the OverDrive unattended application. If the application does not start, you can edit the application settings using OverDrive Utilities (ODUtils.exe). The default location for ODUtils.exe is C:\Program Files\Mettler Toledo\OverDrive OUDT. OverDrive Utilities also provides access to the resource editor.

Report

The **Report** fields display information about the report ODBC driver that interfaces with the database.

Server Name:	The location where the ODBC driver is installed.
Database Name:	The name of the database.
User ID:	The user ID assigned to the database.
Password:	The password assigned to the database.
Test:	Click this button to test the connection to the report ODBC driver.

Auto Login

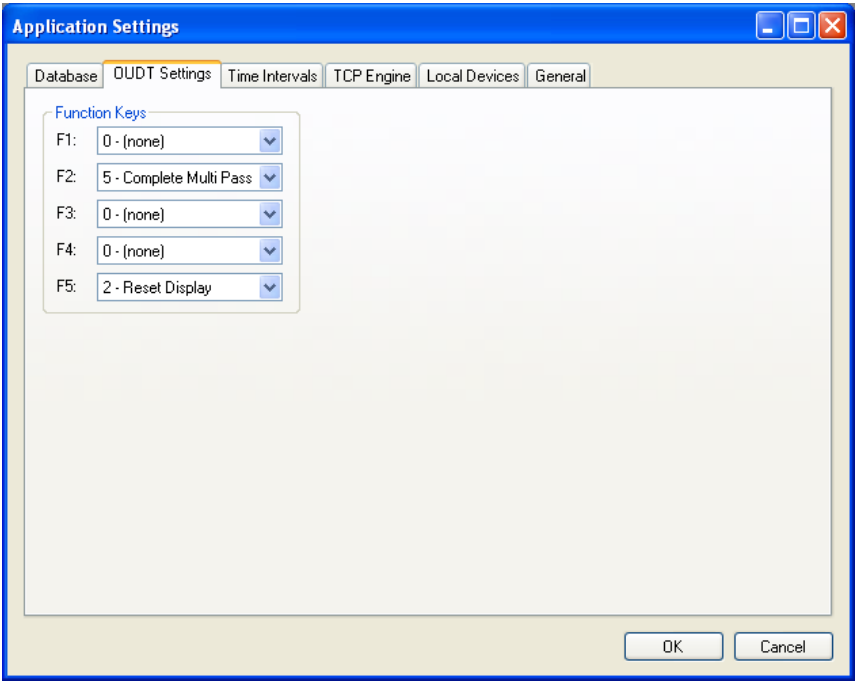
The **Auto Login** fields are used to enable or disable the auto login feature. When auto login is enabled for a user, the user can start the OverDrive unattended application without entering a password.

NOTE: Auto login can be enabled for only one user ID. If you enable auto login for user1 and then change the user ID and password to enable it for user2, the feature will be disabled for user1.

Enable Auto Login:	Check this box to enable auto login for the user whose user ID and password are entered in the following data fields.
User ID:	The user ID assigned for the application.
Password:	The password assigned for the application.

OUDT Settings Tab

The **OUDT Settings** tab is used to assign an action to each function key on the unattended driver terminal's keyboard.



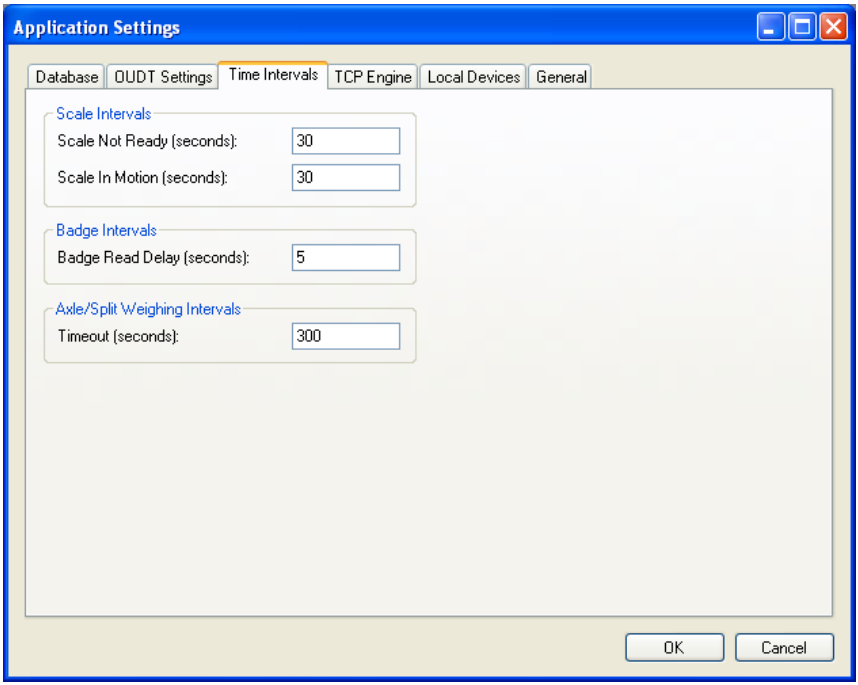
To program a function key, select one of the following actions from the combo box for the function key:

- **0 – (none):** This option disables the function key.
- **1 – Zero Scale:** The function key will set a scale's weight reading to zero. In order for the zero scale command to work, the scale must be empty (within the zero range set for the scale terminal).
- **2 – Reset Display:** The function key will reset the unattended driver terminal's display to the last prompt that was on screen before the key was pressed.
- **3 – Print Last Ticket:** The function key will print a new copy of the ticket for the transaction that was just completed. A vehicle must remain on the scale in order to reprint a ticket. After a vehicle exits the scale (the weight on the scale falls below the threshold weight), the ticket can no longer be reprinted.

- **4 – Complete Pass:** The function key will complete the current pass over the scale. It can be used for all passes except the final pass of a multi-pass transaction.
- **5 – Complete Multi Pass:** The function key will complete the final pass of a multi-pass transaction.
- **6 – Contrast Down:** The function key will decrease the contrast of the unattended driver terminal's display.
- **7 – Contrast Up:** The function key will increase the contrast of the unattended driver terminal's display.

Time Intervals Tab

The **Time Intervals** tab is used to specify the amount of time that the unattended driver terminal will wait before performing certain actions.



To set a time interval, enter the desired number of seconds in the field for that interval.

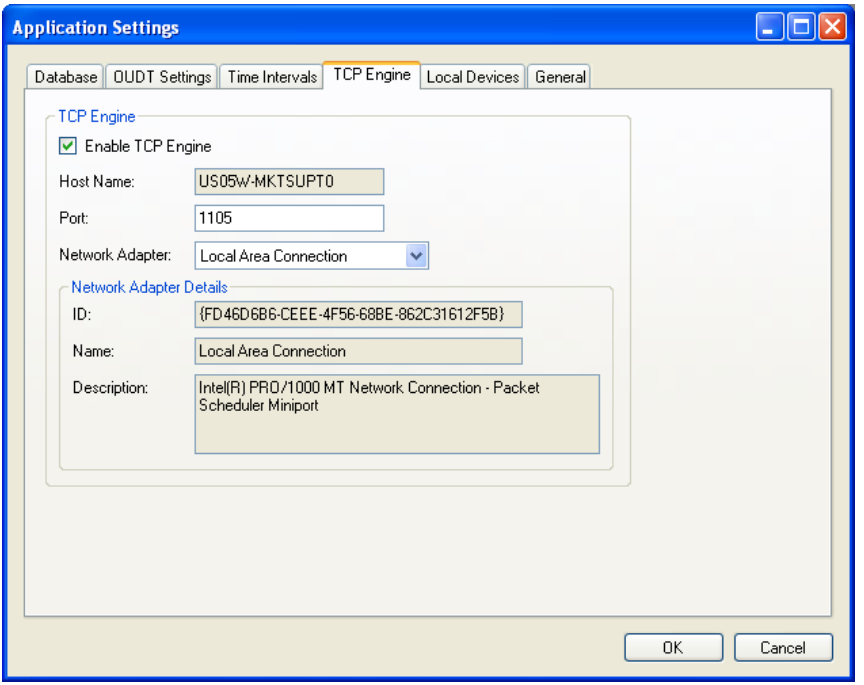
- **Scale Not Ready:** The number of seconds that the terminal will wait before displaying a "Scale Not Ready" message when a driver enters a command to complete a pass but the weight on

the scale does not meet the threshold requirement or I/O sequence.

- **Scale In Motion:** The number of seconds that the terminal will wait before displaying a "Scale In Motion" message when a driver enters a command to complete a pass but there is motion on the scale.
- **Badge Read Delay:** The number of seconds that the terminal will wait before accepting another badge entry. This prevents the reader from accepting multiple entries when a badge is held in front of the reader.
- **Timeout:** The number of seconds that the terminal will allow a vehicle to complete an axle-weighing or split-weighing transaction. If a transaction is not completed within the specified time, it will be aborted. This feature resets the terminal if a truck leaves the scale without completing a transaction.

TCP Engine Tab

The **TCP Engine** tab is used to enable the Transmission Control Protocol (TCP) engine to set up communication between the OverDrive unattended application and the video server PC.



Enable TCP Engine: Check this box to enable the TCP engine.

Host Name: The name of the host computer where the OverDrive unattended application is installed.

Port: The communication port to which the video server is connected.

Network Adapter: Select the network adapter used to communicate with the video server. Local Area Connection is the preferred adapter.

Network Adapter Details

The following fields display information about the network adapter that is selected.

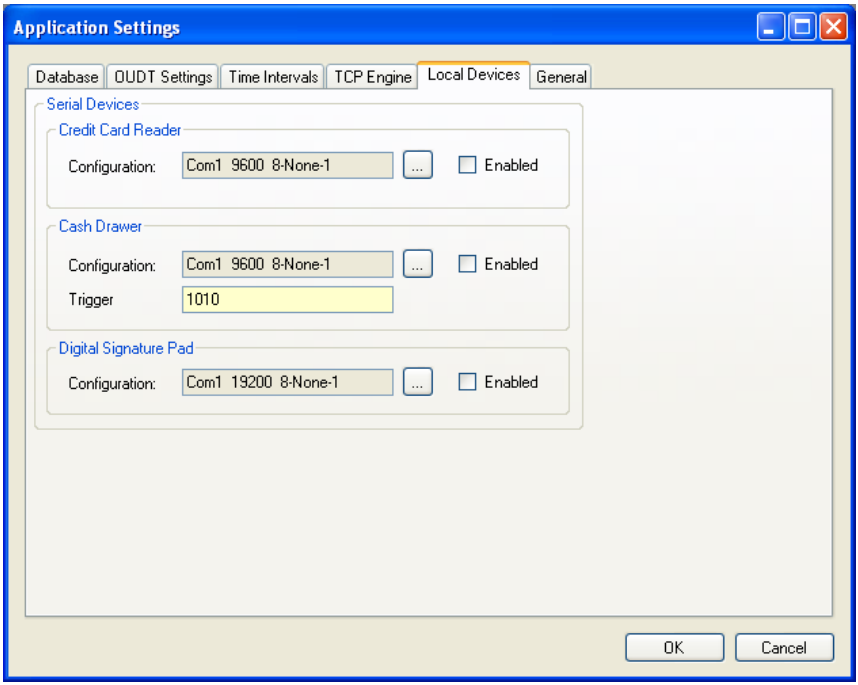
ID: The identifier for the network adapter.

Name: The name of the network adapter.

Description: A description of the network adapter.

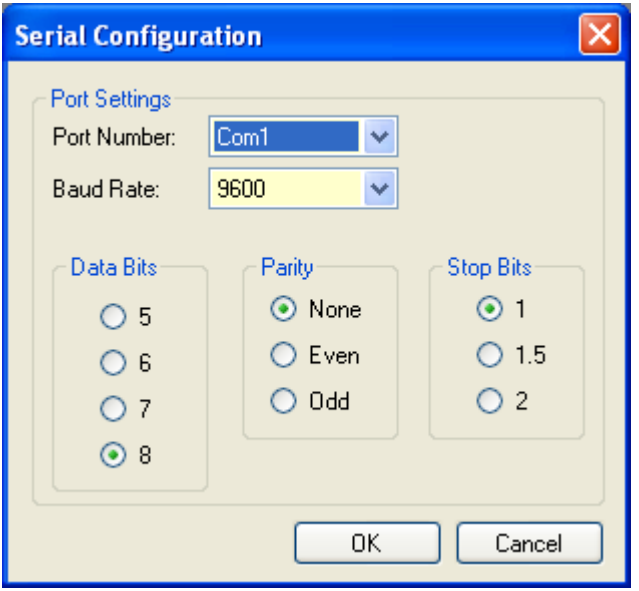
Local Devices Tab

The **Local Devices** tab is used to set up communications with a credit card reader, cash drawer, and digital signature pad connected directly to a serial port on the computer.



Credit Card Reader

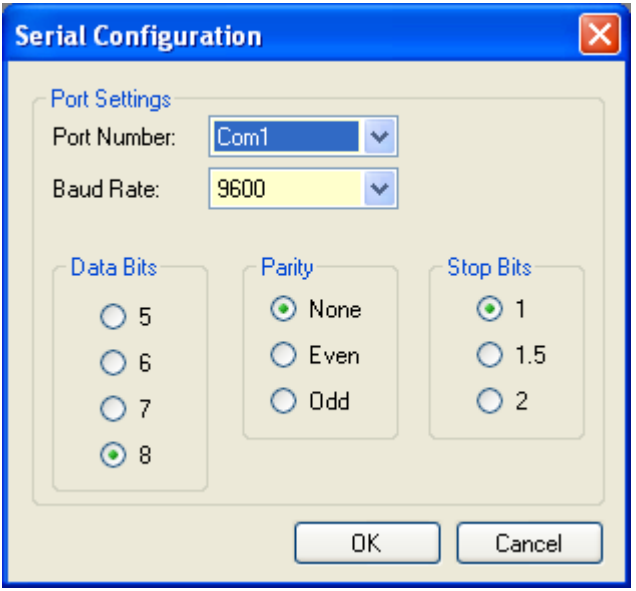
1. Check the **Enabled** box to enable communication with the credit card reader.
2. Click the **Configure COM Port** button to open the **Serial Configuration** window.



3. Enter the serial port configuration settings for the credit card reader:
   - Port Number: Select the serial communication port.
   - Baud Rate: Select the baud rate.
   - Data Bits: Select the number of data bits (5, 6, 7 or 8).
   - Parity: Select the parity (None, Even, or Odd).
   - Stop Bits: Select the number of stop bits (1, 1.5, or 2).
4. Click the **OK** button to save the serial port settings or click the **Cancel** button to cancel any changes.

Cash Drawer

1. Check the **Enabled** box to enable communication with the cash drawer.
2. Click the **Configure COM Port** button to open the **Serial Configuration** window.

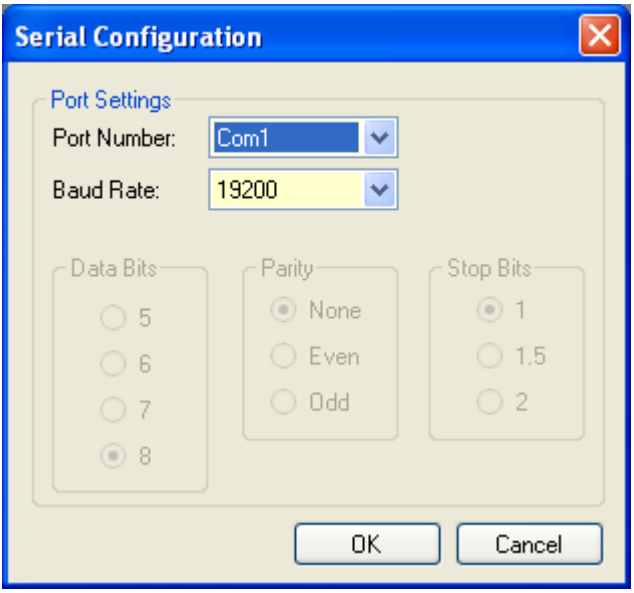


3. Enter the serial port configuration settings for the cash drawer:
   - Port Number: Select the serial communication port.
   - Baud Rate: Select the baud rate.
   - Data Bits: Select the number of data bits (5, 6, 7 or 8).
   - Parity: Select the parity (None, Even, or Odd).
   - Stop Bits: Select the number of stop bits (1, 1.5, or 2).
4. Click the **OK** button to save the serial port settings or click the **Cancel** button to cancel any changes.
5. In the **Trigger** field, enter the code used to open the cash drawer. The code should be provided by the cash drawer manufacturer.

Digital Signature Pad

1. Check the **Enabled** box to enable communication with the digital signature pad.

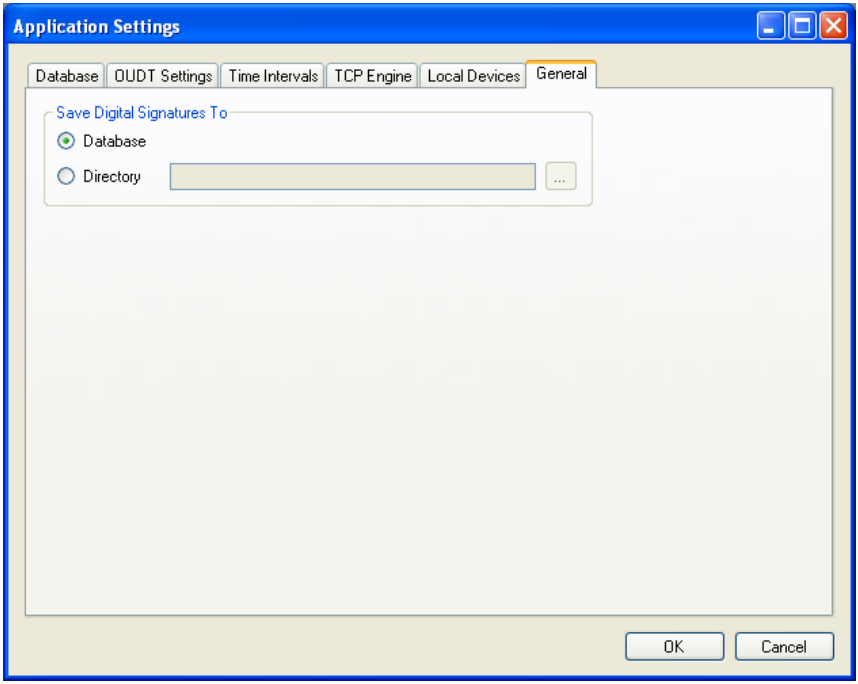
2. Click the **Configure COM Port** button to open the **Serial Configuration** window.



3. Enter the serial port configuration settings for the digital signature pad:
   - Port Number: Select the serial communication port.
   - Baud Rate: Select the baud rate.
4. Click the **OK** button to save the serial port settings or click the **Cancel** button to cancel any changes.

General Tab

The **General** tab is used to select a location for storing digital signatures that are captured from a signature pad connected to the computer or driver terminal.

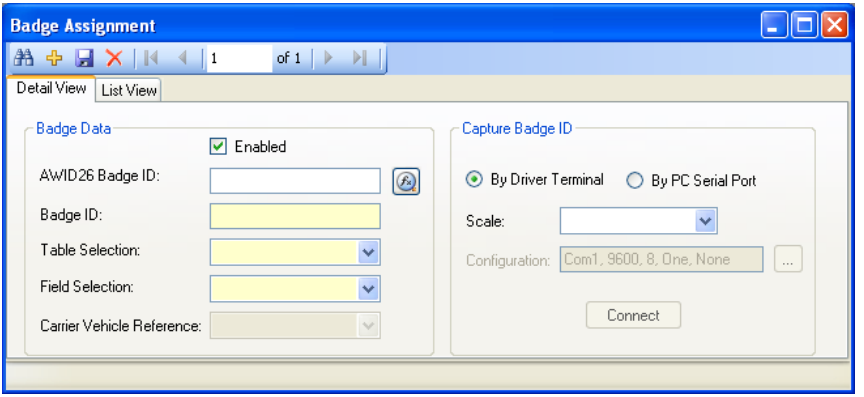


Select a location where the digital signatures will be saved:

- Database - The database where OverDrive transaction information is stored.
- Directory - Use the browse button to select a network directory.

Badge Assignment

The **Badge Assignment** screen lets you enter information about badges used to identify vehicles, accounts, carriers, companies, containers, contracts, products, or trailers. Before a badge can be used at an unattended driver terminal, you must create a badge record and link the badge to it. The **Detail View** tab is used to create and view an individual badge record. The **List View** tab is used to view more than one record.



Data Fields

Enabled:	Check this box to enable a badge record.
AWID26 Badge ID:	The number printed on an AWID26 badge.
Badge ID:	The badge number (or the internal AWID badge code).
Table Selection:	Select the table that contains the record to which the badge will be linked (Account, Carrier, Company, Container, Contract, Product, Trailer, or Vehicle).
Field Selection:	Select the database record to which the badge will be linked. The combo box lists all records from the table that is selected above.
Carrier Vehicle Reference:	If a vehicle is entered as the field selection, this combo box will display the carrier linked to the vehicle. If a carrier is entered as the field selection, this combo box will list the vehicles linked to the carrier.

Push Buttons

Convert AWID26 Badge ID: Click this button to convert the number that is typed in the **AWID26 Badge ID** data field.

Tool Bar

The push buttons on the tool bar are used to view or edit records in the database table. You can use the buttons from both the **Detail View** and **List View** tabs.

Find: Searches for records in a database table. In the initial version of the software, clicking this button will retrieve all records. Full-featured search capabilities will be added in the future.

New: Clears all records that are displayed on a form or table. This lets you begin a new search or begin entering data to create a new record.

Save: Saves a new database record or saves changes made to an existing database record.

Delete: Deletes the database record that is currently displayed on a form.

First: Returns to the first record in a table. The keyboard shortcut for this command is Ctrl-Up Arrow.

Previous: Returns to the previous record. The keyboard shortcut for this command is Ctrl-Left Arrow.

Next: Goes forward to the next record. The keyboard shortcut for this command is Ctrl-Right Arrow.

Last: Goes forward to the last record in a table. The keyboard shortcut for this command is Ctrl-Down Arrow.

When you retrieve a list of records and select one of them, the data field on the tool bar shows the number of the record that is selected and the total number of records that were retrieved. The total number of records in the database table will be shown on the message bar at the bottom of the screen.

AWID26 Badges

Use the following procedure to enter an AWID26 badge number into the database so that the badge can be used at an unattended driver terminal:

1. In the **AWID26 Badge ID** data field, type the number that is printed on the badge.
2. Click the **Convert AWID26 Badge ID** button. The badge number will be entered into the system, and the internal badge code will appear in the **Badge ID** data field.
3. Use the **Table Selection** and **Field Selection** combo boxes to link the badge to a database record, such as a Vehicle ID.
4. Click the **Save** button to save the Badge ID record.

Scanning Badges

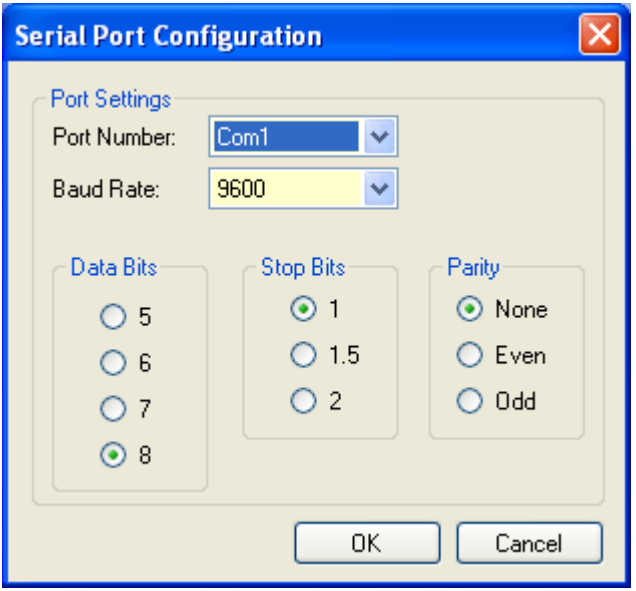
When entering SmartPass 5112 and 5510 badges, you will need to scan each badge at a badge reader (AWID26 badges can also be entered this way). The **Badge Assignment** screen gives you the option of entering a badge by scanning it at an unattended driver terminal's badge reader or at a badge reader connected to the computer's serial port. Use the following procedure to enter a badge into the database so that the badge can be used at an unattended driver terminal:

Badge Reader at an Unattended Driver Terminal

1. Select the **By Driver Terminal** radio button.
2. In the **Scale** combo box, select the scale where the unattended driver terminal is located.
3. Click the **Connect** button on the **Badge Assignment** screen to connect to the unattended driver terminal's badge reader. The button's label will change to **Disconnect**, allowing you to undo this step.
4. Scan the badge at the unattended driver terminal's badge reader to enter the badge number in the **Badge ID** field.
5. Use the **Table Selection** and **Field Selection** combo boxes to link the badge to a database record, such as a Vehicle ID.
6. Click the **Save** button to save the Badge ID record.

Badge Reader at a PC Serial Port

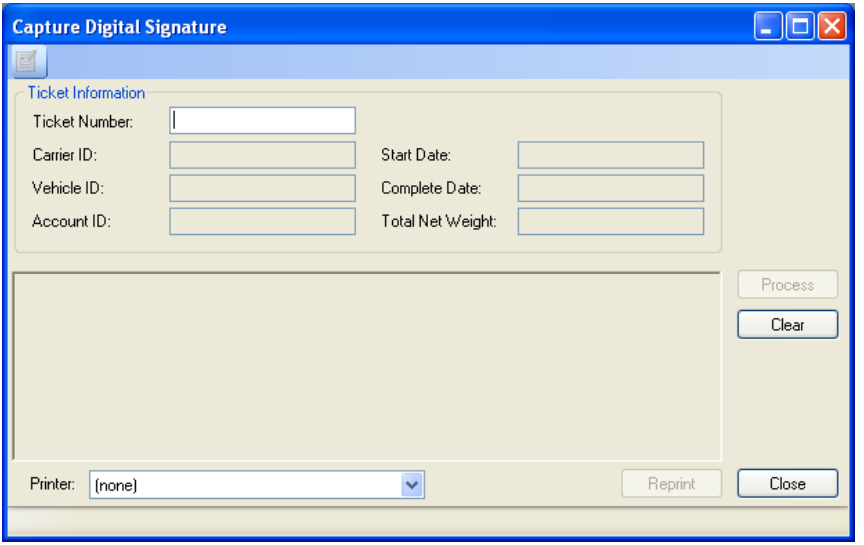
1. Select the **By PC Serial Port** radio button.
2. Click the … button to open the **Serial Port Configuration** window.



3. Enter the serial port configuration settings for the badge reader:
   - Port Number: Select the serial communication port.
   - Baud Rate: Select the baud rate.
   - Data Bits: Select the number of data bits (5, 6, 7 or 8).
   - Stop Bits: Select the number of stop bits (1, 1.5, or 2).
   - Parity: Select the parity (None, Even, or Odd).
4. Click the **OK** button to save the serial port settings or click the **Cancel** button to cancel any changes.
5. Click the **Connect** button on the **Badge Assignment** screen to connect to the serial port's badge reader. The button's label will change to **Disconnect**, allowing you to undo this step.
6. Scan the badge at the PC serial port's badge reader to enter the badge number in the **Badge ID** field.
7. Use the **Table Selection** and **Field Selection** combo boxes to link the badge to a database record, such as a Vehicle ID.
8. Click the **Save** button to save the Badge ID record.

Capture Digital Signature

The OverDrive unattended application can be configured to require a signature to complete a transaction. If a signature is required, the transaction will be placed on hold until the signature has been processed. You can use the **Capture Digital Signature** screen to capture a digital signature and link it to a weighing transaction. Select **Capture Digital Signature** in the **Tools** menu.



When the final weighing of the transaction is completed, the application will either require the driver to sign inside the scale house or prompt the driver to choose between signing at the unattended terminal or inside the scale house. If the driver signs at an electronic signature pad connected to the terminal, there is no need to use this screen. If the driver is required to sign inside the scale house or chooses to sign inside the scale house, the terminal will issue a signature hold ticket and place the transaction on signature hold until the driver's digital signature has been processed.

Use the following procedure to process a digital signature from the **Capture Digital Signature** screen:

1. Type the ticket number for the transaction in the **Ticket Number** field. Then press the ENTER key or TAB key to retrieve the ticket information and display it in the screen's data fields.
2. Have the driver sign the electronic signature pad that is connected to the computer.
3. Click the **Process** button to capture the digital signature and complete the transaction. The printer that is selected in the **Printer** combo box will print a ticket for the transaction. In order to print tickets, you must enable ticket printing in the OverDrive software application and select an outbound ticket on the **Account** or **Presets** screen.

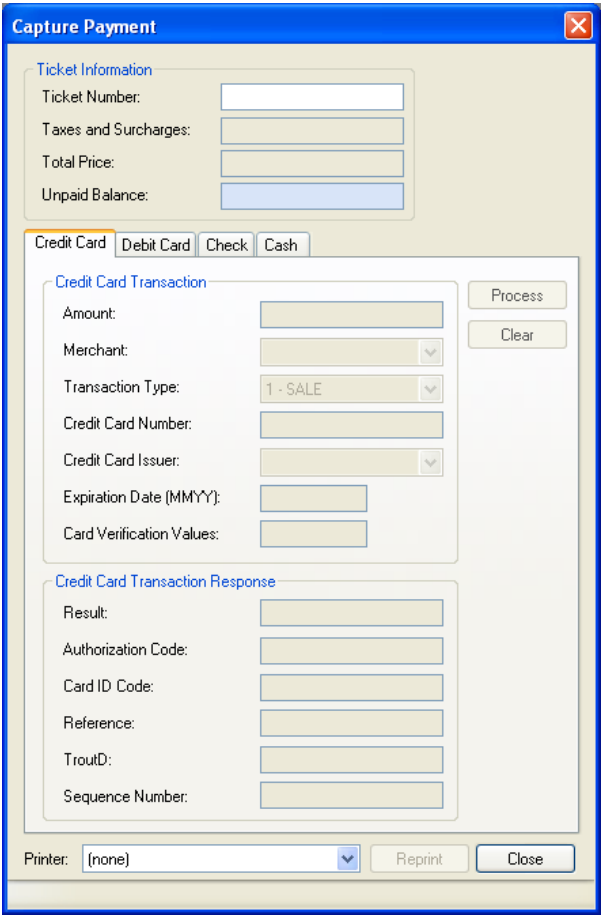
Clicking the **Clear** button before the signature is processed will clear the signature from the screen in case the driver needs to start over.

You can use this screen to retrieve digital signatures that are stored in the database. Type a ticket number in the **Ticket Number** field, and then press the ENTER key or TAB key to retrieve the digital signature.

- The **Connect/Disconnect** button is used to toggle the digital signature feature on and off.
- The **Reprint** button prints a duplicate ticket for the current transaction. You can also use the **Reprint** button to print a duplicate ticket for a previous transaction that you have retrieved (but only if a ticket was printed when the signature was originally processed).

Capture Payment

The OverDrive unattended application can be configured to require payment to complete a transaction. If payment is required, the transaction will be placed on hold until the payment has been processed. You can use the **Capture Payment** screen to process payments for transactions. The screen includes tabs for accepting payment by credit card, debit card, cash, or check. Select **Capture Payment** in the **Tools** menu.



Credit Card Tab

Before you can use the OverDrive Credit Card Module to process payment by credit card, you must install PCCharge payment processing software and set up a merchant account for handling credit card payments. The actual credit card processing is done by PCCharge software, and you will need to use the PCCharge application to close each daily batch of transactions in order to receive payment. Refer to the PCCharge manual for information about how that application works.

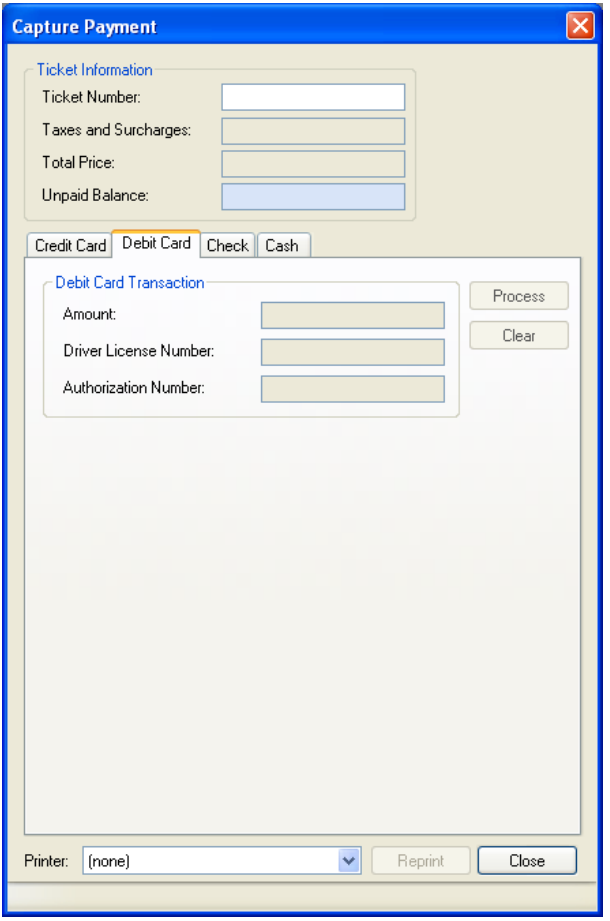
When the final weighing of a transaction is completed, the application can either require the driver to pay inside the scale house or prompt the driver to choose between paying at the unattended terminal or inside the scale house. If the driver pays at a credit card reader connected to the terminal, there is no need to use this screen. If the driver is required to pay inside the scale house or chooses to pay inside the scale house, the terminal will issue a hold ticket and place the transaction on hold until payment has been processed.

Use the following procedure to process a credit card payment from the **Credit Card** tab on the **Capture Payment** screen:

1. Type the ticket number for the transaction in the **Ticket Number** field. Then press the ENTER key or TAB key to retrieve the ticket information and display it in the screen's data fields. The amount of the transaction will be displayed in the **Amount** field.
2. Enter the credit card number using one of the following methods:
   - If a credit card reader is connected to the computer, swipe the driver's credit card through the reader. The system will process the credit card payment and print a ticket to complete the procedure.
   - Type the credit card number in the **Credit Card Number** field and then press the TAB key to replace the number with XXXXXXXXXXXXXXX for security purposes. To complete the procedure, continue with Steps 3 to 5.
3. Type the expiration date for the credit card in the **Expiration Date (MMYY)** field.
4. Type the verification number printed on the back of the credit card in the **Card Verification Values** field.
5. Click the **Process** button to begin processing the credit card payment. The printer that is selected in the **Printer** combo box will print a ticket for the transaction. In order to print tickets, you must enable ticket printing in the OverDrive software application and select an outbound ticket on the **Account** or **Presets** screen.

The remaining credit card transaction and transaction response data fields will be filled in automatically. The status bar at the bottom of the screen will indicate the status of the credit card transaction. Clicking the **Clear** button before the payment is processed will clear the tab's data fields in case information was entered incorrectly.

- The **Reprint** button prints a duplicate ticket for the current transaction. A ticket will no longer be available to be reprinted after the next ticket has been processed or the screen has been closed.



Debit Card Tab

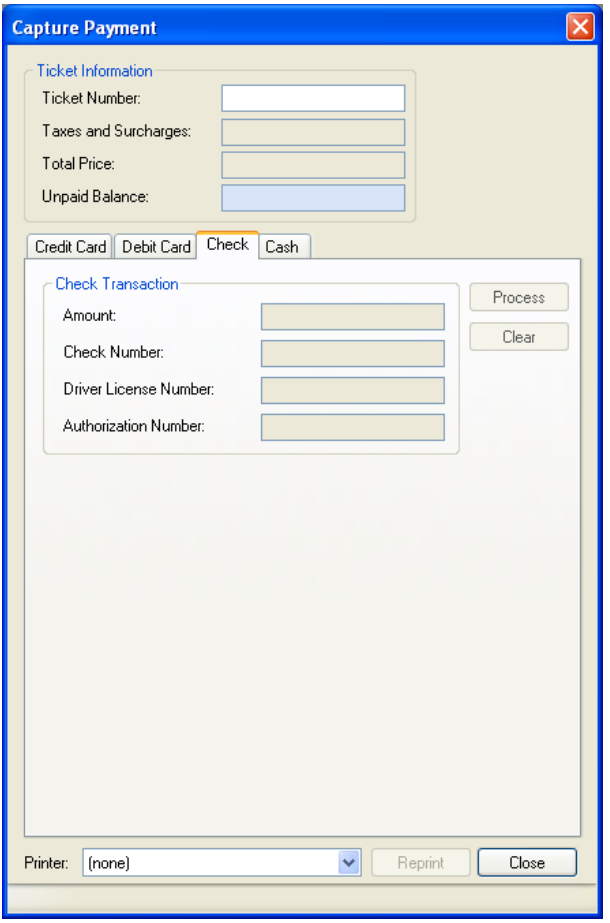
You can enter information about debit card payments on the **Debit Card** tab. Unlike the credit card tab, this tab is used only for entering information. The actual debit card payment must be processed with

a card reader and PIN pad that are separate from the OverDrive application. Use the following procedure to enter information about debit card payments:

1. Type the ticket number for the transaction in the **Ticket Number** field. Then press the ENTER key or TAB key to retrieve the ticket information and display it in the screen's data fields. The amount of the transaction will be displayed in the **Amount** field.
2. Type the driver's license number in the **Driver License Number** field.
3. Type the payment authorization number in the **Authorization Number** field.
4. Click the **Process** button to save the payment information. The printer that is selected in the **Printer** combo box will print a ticket for the transaction. In order to print tickets, you must enable ticket printing in the OverDrive software application and select an outbound ticket on the **Account** or **Presets** screen.

Clicking the **Clear** button before the payment is processed will clear the tab's data fields in case information was entered incorrectly.

- The **Reprint** button prints a duplicate ticket for the current transaction. A ticket will no longer be available to be reprinted after the next ticket has been processed or the screen has been closed.



Check Tab

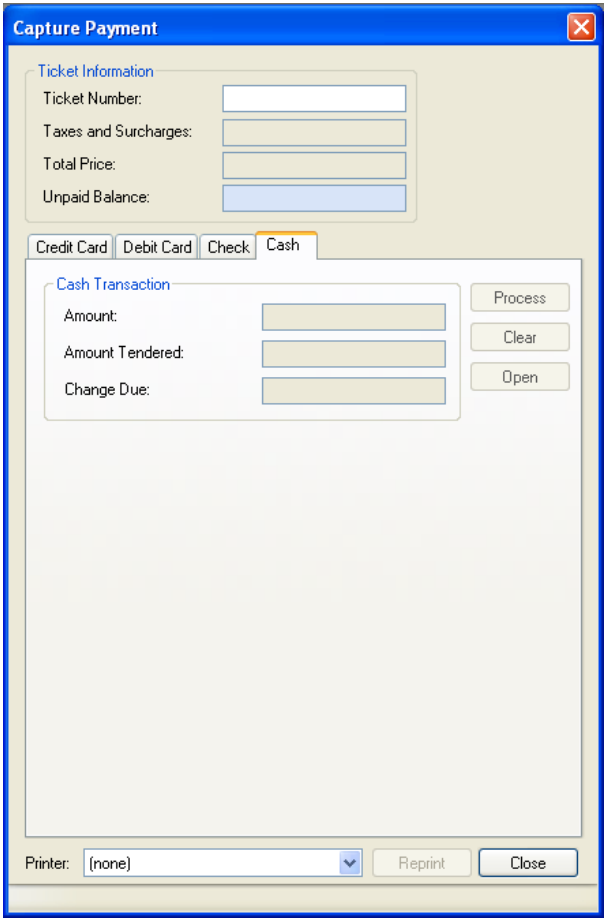
You can enter information about payments by check on the **Check** tab. This tab is used only for entering information; it does not process or verify checks. When a driver pays for a transaction with a check, use the following procedure to enter information about the payment:

1. Type the ticket number for the transaction in the **Ticket Number** field. Then press the ENTER key or TAB key to retrieve the ticket information and display it in the screen's data fields. The amount of the transaction will be displayed in the **Amount** field.
2. Type the check number in the **Check Number** field.
3. Type the driver's license number in the **Driver License Number** field.

4. Type the payment authorization number in the **Authorization Number** field.
5. Click the **Process** button to save the payment information. The printer that is selected in the **Printer** combo box will print a ticket for the transaction. In order to print tickets, you must enable ticket printing in the OverDrive software application and select an outbound ticket on the **Account** or **Presets** screen.

Clicking the **Clear** button before the payment is processed will clear the tab's data fields in case information was entered incorrectly.

- The **Reprint** button prints a duplicate ticket for the current transaction. A ticket will no longer be available to be reprinted after the next ticket has been processed or the screen has been closed.



Cash Tab

You can enter information about cash payments on the **Cash** tab. Use the following procedure to process payment by cash:

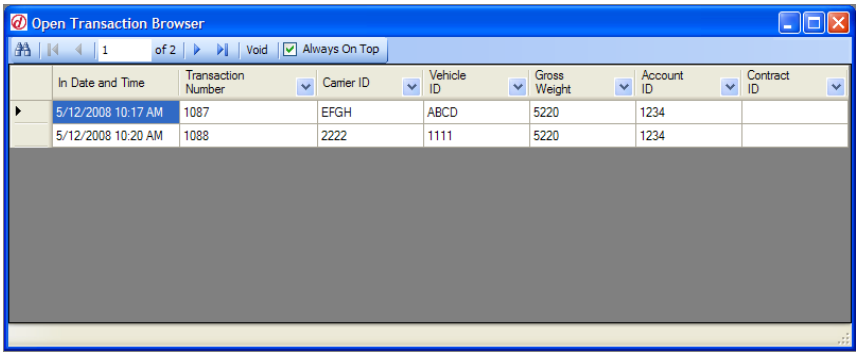
1. Type the ticket number for the transaction in the **Ticket Number** field. Then press the ENTER key or TAB key to retrieve the ticket information and display it in the screen's data fields. The amount of the transaction will be displayed in the **Amount** field.
2. Type the amount of cash paid by the driver in the **Amount Tendered** field. The amount tendered must be greater than or equal to the amount due.
3. Click the **Process** button to process the cash payment. The amount of change to be given to the driver will be displayed in the **Change Due** field. If a cash drawer is connected to the system, the drawer will open automatically. The printer that is selected in the **Printer** combo box will print a ticket for the transaction. In order to print tickets, you must enable ticket printing in the OverDrive software application and select an outbound ticket on the **Account** or **Presets** screen.

Clicking the **Clear** button before the payment is processed will clear the tab's data fields in case information was entered incorrectly.

- The **Reprint** button prints a duplicate ticket for the current transaction. A ticket will no longer be available to be reprinted after the next ticket has been processed or the screen has been closed.
- The **Open** button opens the cash drawer manually.

Open Transaction Browser

The transaction browser lets you view a list of open transactions (two-pass and multi-pass transactions for which the final pass has not been completed). Select **Open Transaction Browser** in the **Tools** menu.



The transaction browser lists each open transaction on a separate line. The system automatically updates the transaction browser every 6 seconds by searching the database for open transactions.

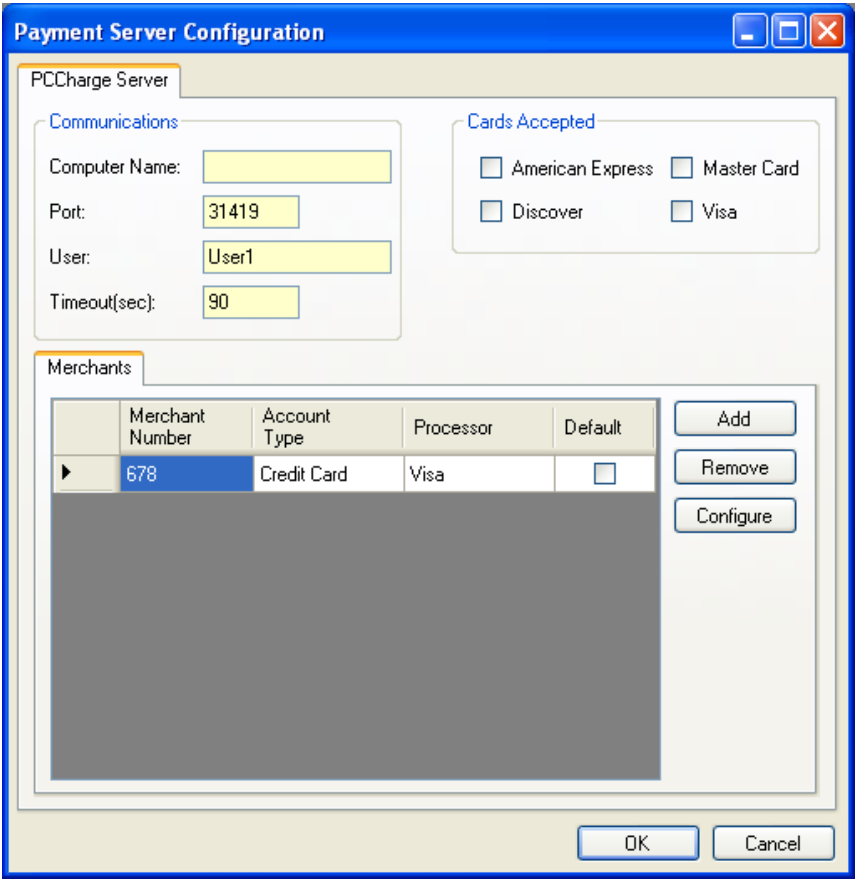
To void an open transaction, select it in the table and then click the **Void** button.

When **Always on Top** is enabled (a check mark is placed in the box), the transaction browser will be displayed on top of other screens that are open.

The transaction browser includes filters that let you limit the open transactions that are displayed. Use the combo boxes in the table headings to select a filter that will display only the transactions that include a specific transaction number, Carrier ID, Vehicle ID, gross weight, Account ID, or Contract ID.

Payment Server Configuration

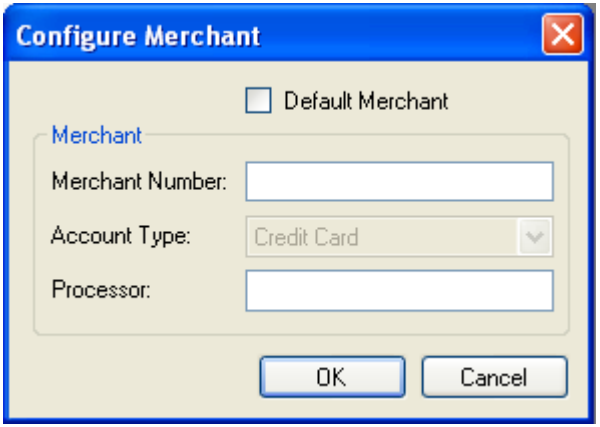
In order to accept payment by credit card, you must set up a merchant account with a bank or other credit card processor and you must purchase and install PCCharge payment processing software. The **Payment Server Configuration** screen is used to set up communication between the OverDrive application and the PCCharge server. To open the screen, select **Payment Server Configuration** in the **Tools** menu.



Each OverDrive software installation that will process credit card transactions must have a unique User ID. If you install OverDrive

software on several computers and plan to process credit card transactions from them, you will need to purchase a PCCharge license for each computer. Refer to the PCCharge manual for information about supporting multiple users.

1. Type the name of the computer (on which PCCharge is installed) in the **Computer Name** field.
2. Type the number of the communication port in the **Port** field.
3. Type the user name for the PCCharge server in the **User** field.
4. Type the timeout period in the **Timeout(sec)** field. This is the number of seconds that the system will continue trying to make a dial-up connection. If a connection is not made within this time period, the system will display an error message and stop trying to connect. A timeout of 90 seconds is recommended.
5. Check the boxes to indicate which types of credit cards will be accepted (American Express, Discover, Master Card, Visa).
6. Click the **Add** button to open the **Configure Merchant** window so that you can add a new merchant and configure it. A merchant is a company that accepts payment for card transactions.
   - To remove an existing merchant, highlight it in the **Merchants** table and click the **Remove** button.
   - To edit the configuration for an existing merchant, highlight it in the **Merchants** table and click the **Configure** button.



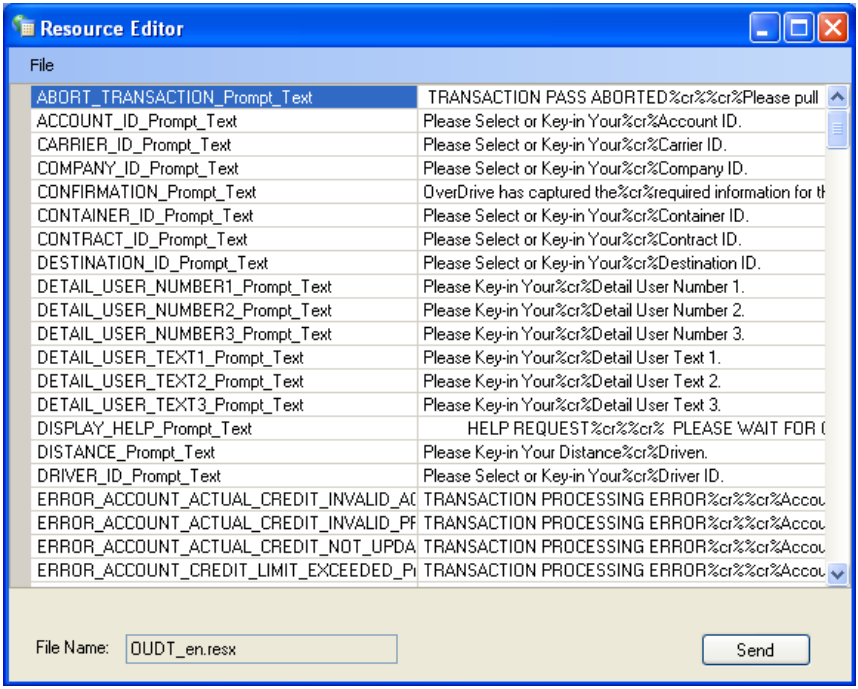
7. Check the **Default Merchant** box if you want this merchant to be the default merchant. The default merchant is the merchant that will always be selected for unattended credit card transactions. When credit card transactions are processed by a scale operator, another merchant can be selected manually.

The first merchant that you configure will automatically be the default merchant. If you configure additional merchants, you can designate one of them as the default. There can be only one default merchant at a time, so when you select a new merchant as the default, the first merchant will automatically be deselected as the default.

8. Type the merchant number (which is supplied by the bank that handles the credit card account) in the **Merchant Number** field.
9. Select the account type (credit card is selected by default).
10. In the **Processor** field, type an identifier for the payment processer that was set up in PCCharge software.
11. Click the **OK** button to save the merchant record and return to the **Payment Server Configuration** screen.
12. After you have configured the merchant(s), click the **OK** button on the **Payment Server Configuration** screen to save the configuration changes.

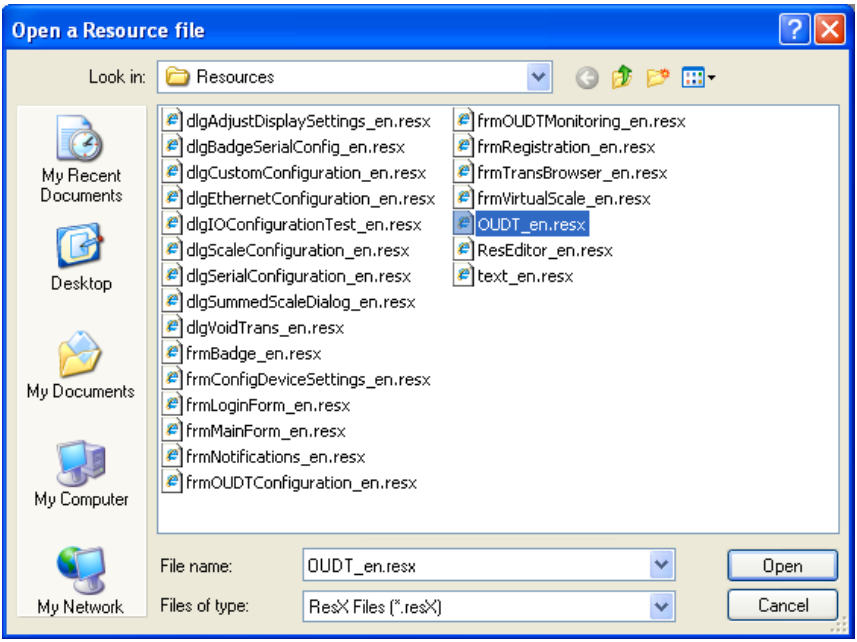
Resource Editor

The resource editor lets you edit resource files that determine what text and error messages appear on screen. It provides a convenient way to edit the files from within the application. To open the resource editor, select **Resource Editor** from the **Tools** menu on the main **OverDrive** screen or the **Scale Configuration** screen.



Use the following procedure to edit a resource file:

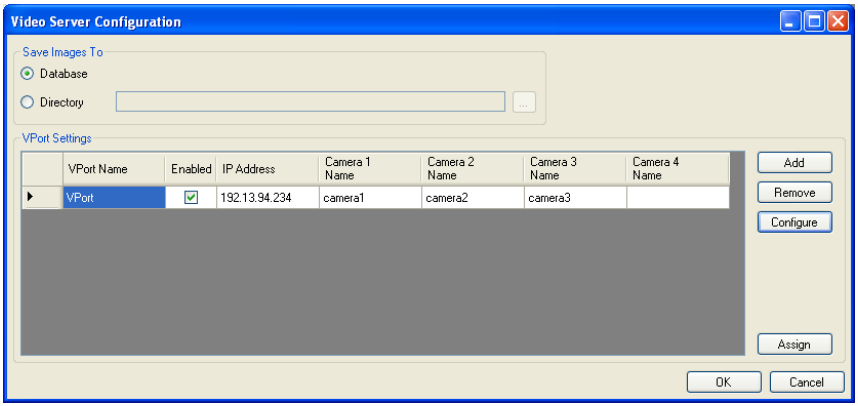
1. Open the **File** menu and click on the **Open** menu option. That opens a window from which you can select a resource file to edit.



2. Select the file that you want to edit, and then click the **Open** button (or double-click on a file name to open it).
3. Each line of text is represented by a title (in the left-hand column) and the text that appears on screen (in the right hand column). The titles cannot be edited. Place the cursor in the line of text that you want to edit and type the changes.
4. When you have finished editing the resource file, use the **Save** command in the **File** menu to save the changes or use the **Save As** command to save the edited file with a new file name. The **Save As** command can be used for creating a back-up or temporary copy of a file. Use the **Send** button to view changes on the unattended driver terminal's display. Use the **Exit** command to close the file without saving the changes.

Video Server

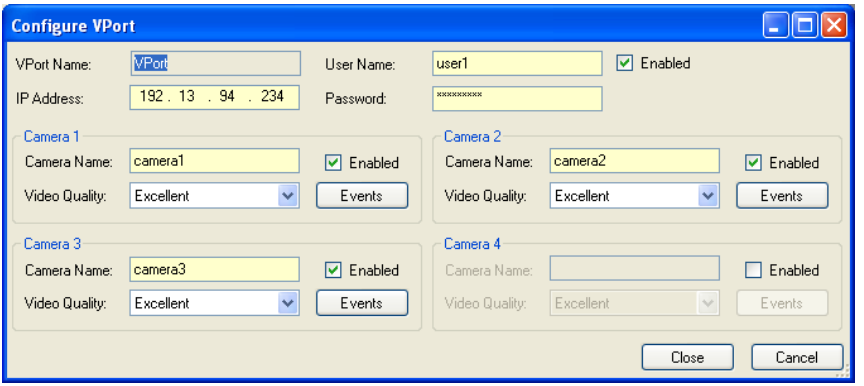
The video server is an optional module designed to control cameras that monitor activity at a scale and to store the digital images captured by the cameras. The **Video Server Configuration** screen lets you configure the video server cameras and assign a location for storing the images. You can install more than one video port, each of which can support as many as four cameras. To open the screen, select **Video Server Configuration** in the **Tools** menu.



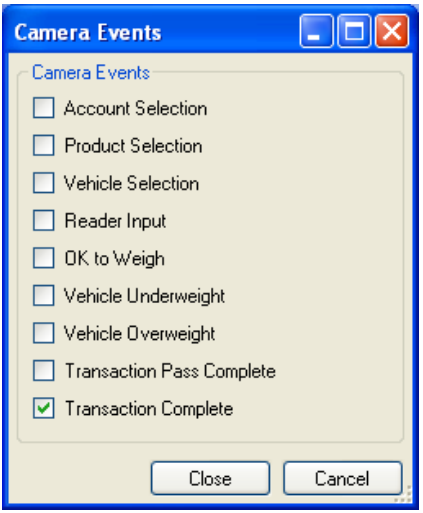
Use the following procedure to configure the video server:

1. Select the location where the images captured by the cameras will be saved:
   - Database - The database where OverDrive transaction information is stored.
   - Directory - Use the browse button to select a network directory.

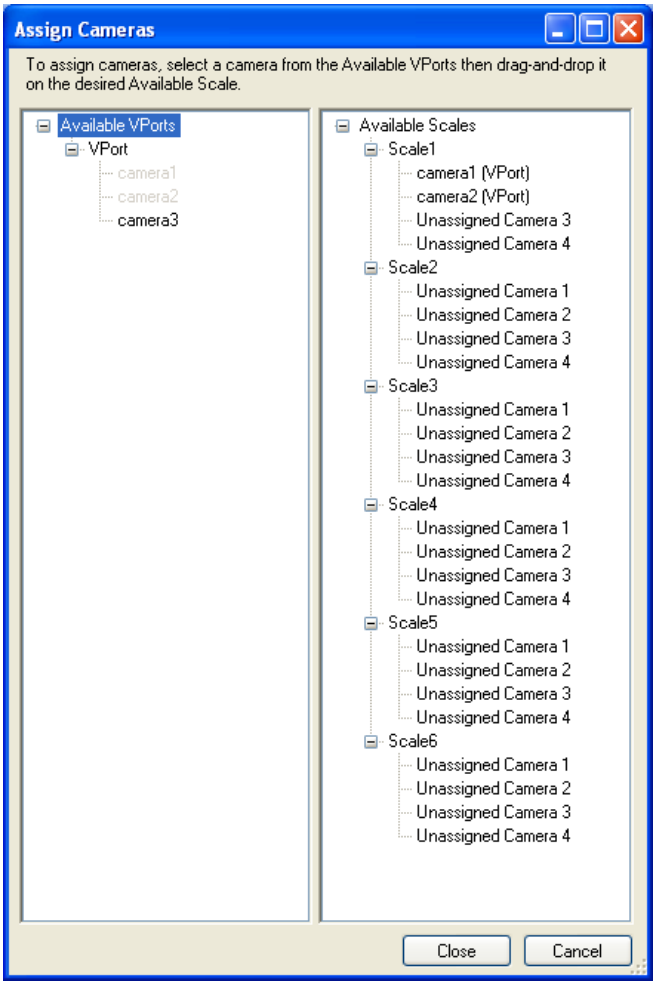
2. Click the **Add** button to open the **Configure VPort** screen so that you can add a new video port and configure it.
   - To remove an existing video port, highlight it in the **VPort Settings** table and click the **Remove** button.
   - To edit the configuration for an existing video port, highlight it in the **VPort Settings** table and click the **Configure** button.



3. Enable the video port and configure it:
   - Check the **Enabled** box.
   - Enter a name for the video port.
   - Enter the IP address for the video port.
   - Enter the user name and password that were assigned when you set up the VPort application software.
4. Enable and configure each camera connected to the video port:
   - Check the **Enabled** box for the camera.
   - Enter a name for the camera.
   - Select the video quality for the camera (Medium, Standard, Good, Detailed, or Excellent).
   - Click the **Events** button to open the **Camera Events** screen.



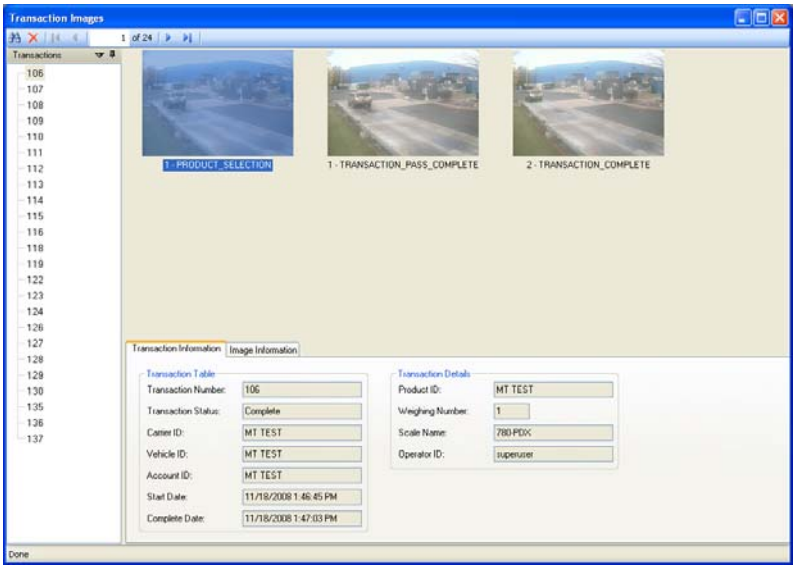
5. On the **Camera Events** screen, check the boxes for the events that will trigger the camera to capture images. If you are using more than one camera at a scale, you might want to assign different events to each camera, depending on the positions of the cameras. After selecting the desired events for the camera, click the **Close** button to save the selections and return to the **Configure VPort** screen or click the **Cancel** button to return to the screen without saving the selections.
6. After configuring each camera that is being used, click the **Close** button on the **Configure VPort** screen to save the selections and return to the **Video Server Configuration** screen.
7. On the **Video Server Configuration** screen, click the **Assign** button to open the **Assign Cameras** screen.



8. Assign cameras to the scale(s) by using the drag-and-drop method. The video ports and cameras that have been configured will appear in the left-hand list box. The available scales and unassigned cameras for each scale will appear in the right-hand list box. To assign a camera, click on the camera's name in the left-hand list box and drag it to one of the unassigned camera locations in the right-hand list box. When all cameras have been assigned, click the **Close** button.
9. Click the **OK** button on the **Video Server Configuration** screen to save all configuration changes.

Video Server Images

The video server automatically saves images for the events that were selected when each camera was configured. There are two database tables, one for images captured during weighing transactions and one for isolated images that are not linked to transactions. To view the transaction images, open the **Data Setup** menu, position the cursor over the **Images** option, and select **Transaction Images**.



The side tree on the **Transaction Images** screen lists all transactions for which images were saved. Click on a transaction number in the side tree to display the images saved for the transaction. You can scroll through the transaction numbers listed in the side tree or use the push buttons on the tool bar to locate a transaction.

Push Buttons

Find

This button updates the list to include new transactions that were added while the screen was open.

Delete

This button deletes all images for the transaction that is currently displayed. To delete an individual image, click on the image to highlight it and then press the DELETE key on the keyboard. Use the

SHIFT or CONTROL key to highlight more than one image so that you can delete them using the DELETE key.

First

This button returns to the first transaction in the database.

Previous

This button returns to the previous transaction in the database.

Next

This button goes forward to the next transaction in the database.

Last

This button goes forward to the last transaction in the database.

Arrow

This button is for future use.

Data Navigation Pane

This button closes the side tree. When the side tree is closed, a Data Navigation Pane appears at the left-hand side of the screen. Position the cursor over the Data Navigation Pane to open the side tree for as long as the cursor is held over it. If you click the button again, the side tree will remain open.

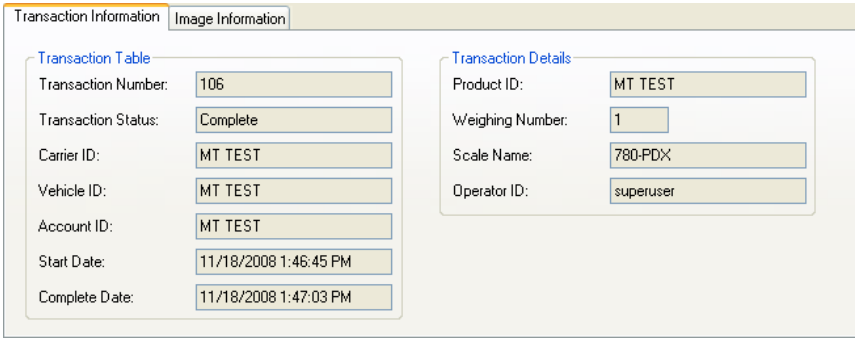
Working with Images

Double clicking on an image opens a window containing an enlarged version of the image.

You can change the size of the enlarged image by clicking on the lower right-hand corner of the image and dragging it to the desired size. Click the **Save** button on the tool bar to save a copy of the image to another directory.

Transaction and Image Information Tabs

The **Transaction Information** and **Image Information** tabs display information about the transaction and image that is selected. Highlight an image to fill in the **Transaction Details** and **Image Details** fields.



Transaction Table

Transaction Number: The transaction number.

Transaction Status: This status of the transaction.

Carrier ID: The identifier for the carrier.

Vehicle ID: The identifier for the vehicle.

Account ID: The identifier for the account.

Start Date: The date and time the transaction was started.

Complete Date: The date and time the transaction was completed.

Transaction Details

Product ID: The identifier for the product.

Number: The weighing number for the image.

Scale Name: The name assigned to the scale.

Operator ID: The identifier for the scale operator.

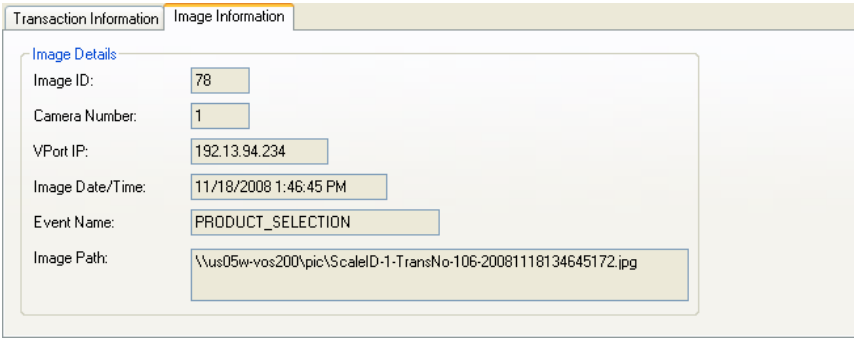


Image Details

Image ID: The identifier for the image.

Camera Number: The camera that captured the image.

VPort IP: The IP address for the video port.

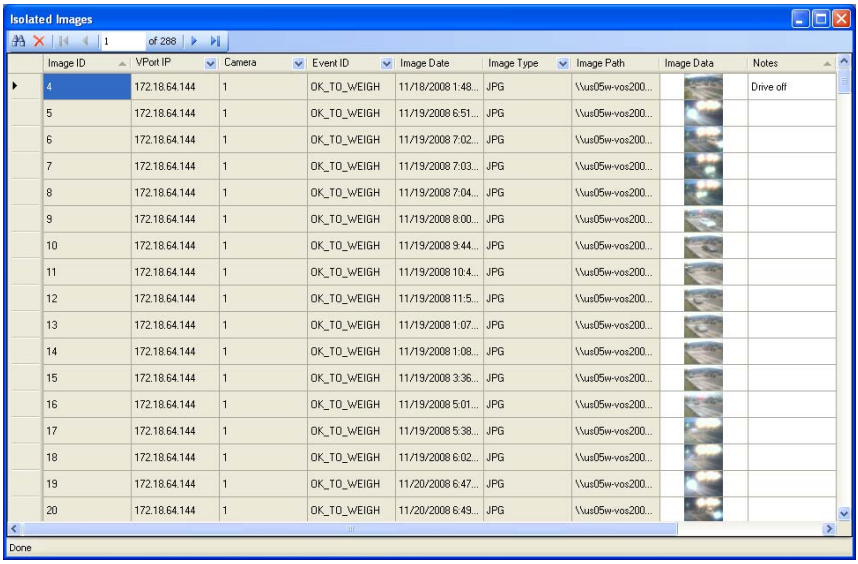
Image Date/Time : The date and time when the image was captured.

Event Name: The event that prompted the image to be captured.

Image Path: The storage location for the image.

Isolated Images

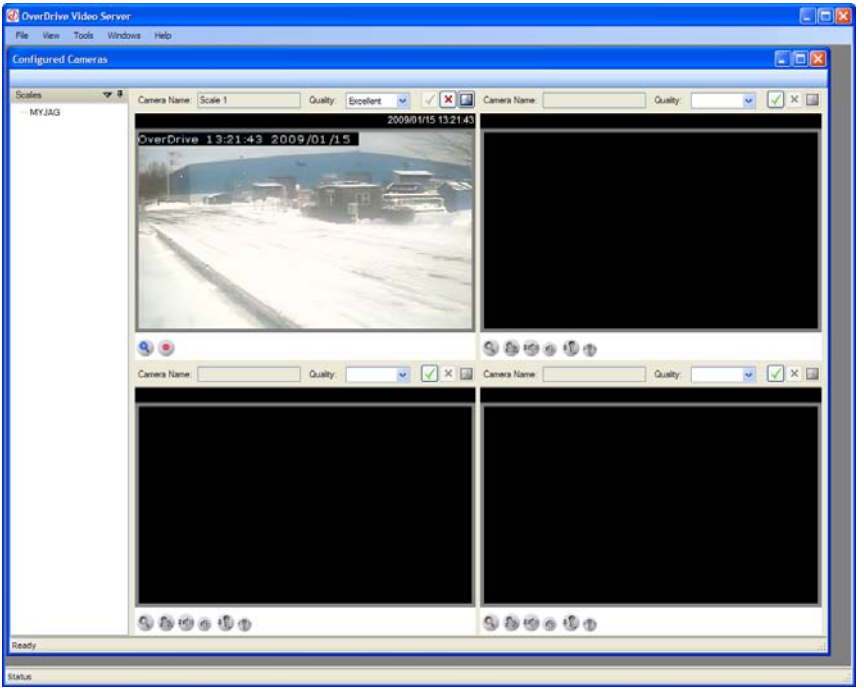
Depending on the camera events that you select, cameras might capture images that are not linked to a transaction or ticket number. For example, a camera might be set up to capture images of trucks that drive onto a scale and then drive off without processing a transaction. These isolated images are stored in a separate table. To view the isolated images, open the **Data Setup** menu, position the cursor over the **Images** option, and select **Isolated Images**.



Navigate through the isolated images using the push buttons on the tool bar, which work the same way as those on the **Transaction Images** screen. You can enter a note for an image by typing it in the **Notes** column next to the image.

Using the Video Server

After installing the video server and configuring the video ports, you can use the video server to view live video from the cameras at the scales and to save video or still images. To open the video server, click on the OverDrive video server icon. Then open the **Tools** menu and select **Cameras** to open the **Configured Cameras** screen.



The scales that are equipped with cameras will be listed in the side tree. To view the activity at a scale, click in the scale name in the side tree. The screen will display the live video from each of the one to four cameras connected to the video port. The following data fields and push buttons are available for each camera:

Data Fields

Camera Name: The name that was assigned to the camera when the video port was configured.

Quality: The video quality that was selected for the camera when the video port was configured. You can change the video quality by selecting a setting in

the combo box (Medium, Standard, Good, Detailed, or Excellent).

Push Buttons

Connect: Click this button to connect the camera. When the camera is connected (the button is active), it will provide live video and capture images.

Disconnect: Click this button to disconnect the camera. When the camera is disconnected (the button is inactive), it will not provide live video or capture images.

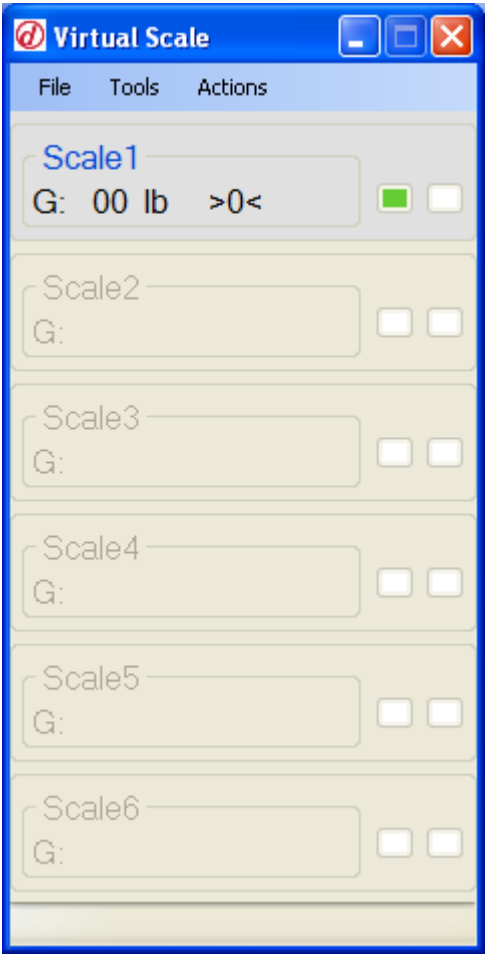
Capture: Click this button to capture a still image of the current activity at the scale. You will be prompted to save the image and select a location for it.

Zoom: Click this button to zoom in on the image. A sliding scale will be displayed to let you adjust the zoom from 100% to 400%.

Manual Record: Click this button to record video from the camera and save it to the video server's installation directory. Click the button a second time to stop recording.

Virtual Scale

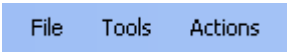
The virtual scale indicator displays the current weight from each of the scales connected to the system. It allows the system operator to view the weight activity on all scales. You can reposition the indicator and use the Always on Top feature to ensure that it will be displayed on top of other screens that are open. To open the virtual scale indicator, click on **Virtual Scale** in the **Tools** menu.



For each scale, the virtual scale indicator displays the scale name, the gross weight currently on the scale, a symbol (~) to indicate when the scale is in motion, and a symbol (>0<) to indicate that an empty scale is at zero. Asterisks (******) in the weight field indicate

that the load on the scale is under/over the allowable weight range. Status lights indicate whether the scale is connected (green) or disconnected (red).

The menu bar at the top of the screen provides the following menus:



File Menu

- **Exit:** This item closes the virtual scale indicator.

Tools Menu

- **Always on Top:** When **Always on Top** is enabled (a check mark displayed next to it), the virtual scale indicator will be displayed on top of other screens that are open.
- **Monitor OUDT:** This item opens the OUDT monitor, which lets you view activity on the unattended driver terminal's display for the scale that is selected. The OUDT monitor is described below.

Actions Menu

- **Start OUDT:** This item starts communication with the unattended driver terminal(s) at the scale that is selected.
- **Stop OUDT:** This item stops communication with the unattended driver terminal(s) at the scale that is selected.
- **Zero Scale:** This item zeroes the scale that is selected. The scale must be empty (within the zero range set for the scale terminal).

OUDT Monitor

The OUDT monitor lets you monitor an unattended driver terminal's display from the computer that was used to configure the terminal. You can open an OUDT monitor for each scale separately and leave them open to monitor activity for all terminals simultaneously. To open the monitor, select **Monitor OUDT** from the **Tools** menu on the **Scale Configuration** screen or the virtual scale indicator (you can also right click on a scale to open the menu.

OUDT Display: This field shows the message that is currently displayed on the unattended driver terminal. It provides a live view of the driver's navigation and data entry.

Keyboard Output: This field shows the data that the driver enters using the unattended driver terminal's keyboard. The data will not appear in the field until the driver selects the **Enter** command.

Reader Output: This field shows the data that the driver enters using the unattended driver terminal's badge reader.

Number of Passes: This field shows the number of passes that have been processed since the last time the application was started. Each time the application is shut down, the number will reset to zero.

The message bar at the bottom of the monitor indicates the status of the unattended driver terminal, hardware connections, and I/O connections. A green check mark indicates that the hardware or I/O is connected; a red "x" indicates that it is disconnected.

Tool Bar

The tool bar provides push buttons for several frequently used commands.

Start OUDT

This button starts communication with the unattended driver terminal(s) at the scale that is selected.

Stop OUDT

This button stops communication with the unattended driver terminal(s) at the scale that is selected.

View I/O Configuration Image

This button opens a screen showing a detailed description of the predefined I/O configuration for the scale.

Operator Override

This button disables input from the unattended driver terminal and enables you to process transactions from the OUDT monitor. The unattended driver terminal automatically resumes control when the OUDT monitor is closed. Clicking the button a second time will also return control to the unattended driver terminal.

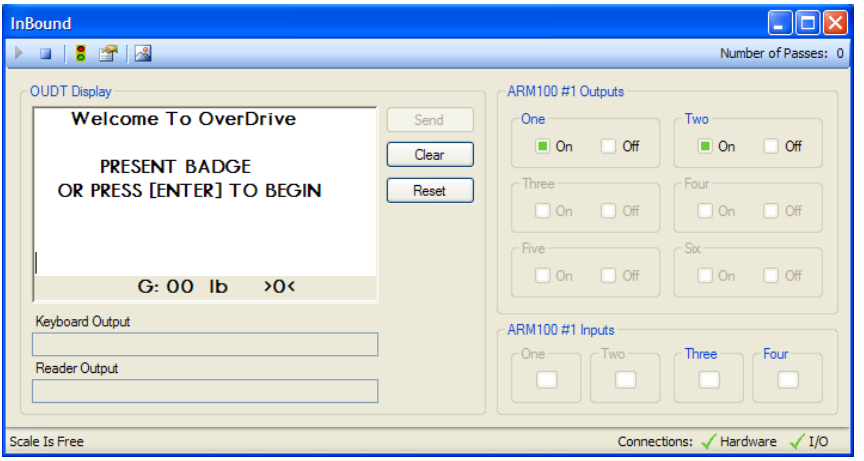
NOTE: Operator override mode will automatically be used for a scale if you select "0" (zero) as the number of driver terminals for the scale on the **Scale Configuration** screen's **Hardware** tab.

Manual Override Outputs

This button overrides the system's output commands so that you can control traffic lights and gates manually from the OUDT monitor.

When inputs and outputs are enabled for a scale, they will be displayed on the OUDT monitor. Clicking on the **Manual Override Outputs** button overrides the system's output commands, allowing you to control the traffic lights or gates manually. With the manual override enabled, click on the monitor's on/off indicators to switch the devices on or off. Click on the **Manual Override Outputs** button again to resume automatic control of the outputs.

The scale must be empty (below the pass minimum weight) in order for the button to switch off manual override.



Push Buttons

The push buttons are used to send messages to the unattended driver terminal's display.

1. Click the **Clear** button to clear the prompt from the screen and enable the **Send** button.
2. Place the cursor on the desired line and type a message.
3. Click the **Send** button to display the message on the unattended driver terminal at the scale.
4. Clicking the **Clear** button will delete the message. To send additional messages, repeat steps 2 and 3.
5. When you are done communicating with the driver, click the **Reset** button to reset the terminal so that it displays the most recent prompt.

6 Processing Transactions

Unattended

OverDrive unattended driver terminals can be equipped with various types of badge readers and keyboards for drivers to enter data. How data is entered depends on the way that the individual terminal is set up, and what data needs to be entered depends on the unattended transaction type that is created using OverDrive software. The sample procedure described below is for a one-pass transaction that requires the driver to enter only vehicle, transaction type, account, and product data.

1. Drive a vehicle onto the scale. When the system is ready, it will display the following message: **Welcome to OverDrive. Present Badge or Press [Enter] to Begin.** Use a badge or press the **Enter** key to begin the transaction.
2. At the **Please Select or Key-in Your Vehicle ID** prompt, scroll down to select the desired Vehicle ID or use the keyboard to type it. Then press the **Enter** key. If a badge was used to identify the vehicle, this step might not be necessary.
3. At the **Please Select or Key-in Your Transaction Type** prompt, scroll down to select the desired transaction type or use the keyboard to type it. Then press the **Enter** key.
4. At the **Please Select or Key-in Your Account ID** prompt, scroll down to select the desired Account ID or use the keyboard to type it. Then press the **Enter** key.
5. At the **Please Select or Key-in Your Product ID** prompt, scroll down to select the desired Product ID or use the keyboard to type it. Then press the **Enter** key.
6. After the data has been entered, the system will display the following message: **OverDrive has captured the required information for this pass. Press [Enter] to Accept or Press [Home] to Cancel.** Press the appropriate key to complete the transaction.
7. The system will display the following message to indicate that the transaction has been completed: **Transaction is Complete. Please pull forward to exit scale. Thank You!**

For a two-pass transaction, press the **Enter** key in Step 6 to accept the data from the first pass. When the vehicle returns to the scale for a second weighing, enter the Vehicle ID and then complete the pass.

The OverDrive unattended system can be set up to require a driver to pay or sign in order to complete a transaction. Depending on how

the system is set up, the terminal will prompt the driver to pay or sign inside (the scale house or office) or will let the driver choose between paying or signing inside and paying or signing outside (at a terminal equipped with a credit card reader or electronic signature pad). If the driver is paying or signing inside, the terminal will issue a hold ticket.

Keyboards

Standard QWERTY and numeric keyboards for OverDrive unattended driver terminals are shown below. The following pages explain the functions of any keys that carry out special commands.

QWERTY Keyboard

Numeric Keyboard

Abort

The abort key cancels the current transaction and requires the weight on the scale to go below the pass minimum weight before a new transaction can begin.

Help

The help key sends a visual and audible message to the OverDrive unattended application.

Shift

Pressing the shift key and another key at the same time gives the other key a second function.

Short Codes

The short codes key activates the OverDrive application's short code function.

Home

The home key cancels the current data selections and resets the unattended driver terminal to the prompt that is displayed at the beginning of a transaction. This command does not require the weight on the scale to go below the pass minimum weight.

Item Selection Up

The up arrow key selects the item above the current selection.

Item Selection Down

The down arrow key selects the item below the current selection.

Page Up

The double up arrow key displays the previous four data items.

Page Down

The double down arrow key displays the next four data items.

Search

The search key activates the OverDrive application's search function.

Back Space

The back space key deletes the last character that was entered.

Enter

The enter key accepts the data that is currently selected.

Space

The space key enters a space in the text on the display.