Complete Guide for the Pilot Scanner App (version 4.5)
Overview

The Pilot Scanner App is the next step in the evolution of Pilot’s bar code scanning systems.

The Pilot Scanner App “kit” consists of four components:
1) Bluetooth Scanner (not needed for devices with built-in scanner).
2) Android device (cell phone or tablet **) that supports Bluetooth and Wi-Fi.
3) Pilot Scanner App software.
4) Wireless Access Point (WAP) connected to the Internet.

** Android device does not need a voice or data plan when used with a WAP.

The Android device runs the App, and communicates with the scanner via Bluetooth to collect scanned bar code data and then communicates via Wi-Fi with Pilot’s systems. Maximum Bluetooth range is 30 feet; scanner needs to be within that range for the Scanner App to work.

Advantages of Pilot Scanner App vs. Dolphin scanning system:
1) Lower cost - $500 vs. $2,500. **
2) Portability – smaller, lighter, pocketable devices.
3) Better pictures – Higher resolution, more detail. **
4) Faster to charge, holds charge longer.
5) Option to scan and update anywhere Internet access (Wi-Fi or 3G/4G/5G with data plan) is available.
6) Scalability - Add as many devices as you need, cheaply, quickly.
7) Quicker to setup and configure.
8) Easier to update.

**Excludes Honeywell EDA-50, 51 and CT-40 Models
Quick Start Guide

Clean Install

Initial Setup
Please see the “Initial Setup” section for installing and running the app for the first time. Scanner kits sent from the Corporate Office should already have this completed.

Bluetooth
Please see the “Bluetooth” section of the guide for details on your specific scanner.

Status Changing Mode Quick Reference

**Not available on EDA-50, EDA-51, and CT-40 devices**
Installation

Download the file from https://tools.pilotdelivers.com/mobileapps/pilotscanner450.apk

This can be done directly from the Android device either by sending this link using email or by typing the link into an Android web browser.

Since this app is not from the Google Play Store, the Android device will have to allow the installation of apps from unknown sources. This can usually be found under System Settings > Security > Unknown Sources.

Initial setup

There are a few things that must be done before being able to use the Pilot Scanner App

Before running the app, make sure the device is connected to the Internet, as this will be required for authentication.

The first time the app is started, the Settings screen will be displayed and a few settings will have red boxes to the left.

The first thing to do is select the station. Once done, the device will check if it is authorized to be used as a scanner for that station. If the device is not authorized, a request will be sent and allow that station to authorized the device through COMAPSS DISPATCHER. An example is show below.

Authorizing scanning devices is handled the same way as devices using the Pilot Driver app. Go into COMPASS DISTPACHER, click on the Trucks menu item, then Authorized Devices. In that dialog, look for a device where the DriverCode is “XXX--”where the XXX is the station code. The Model is mentioned in the description of the Check for Authorization setting. Once the device has been authorized in COMPASS DISPATCHER, tap the Check for Authorization setting on the scanner device to update. The setting value will update to show the current status.

Next, tap the User Name row to show a dialog to create the users that will be using the device as show to the right. Once all the users have been created, tap one of them to make that the current user and close the dialog.

Selecting the printers is optional but recommended. See the Settings section for more information.
User Interface

Header
There are 5 parts to the header depending on mode and settings.

User name
If enabled, tapping on the user name will show a dialog with the options to select and change the users.

Update
If an update has been downloaded but not installed, this button will be visible. Since updates are required to be installed within 12 hours, this button also acts as a notification. See the Updates section for more information.

Settings
This will display the settings menu which includes Help and Settings. See the Settings section for more information.

Mode
This will show a dialog to switch modes. See the Modes section for more information.

Upload
This will show a dialog to either clear the Scanned Items List or to upload the valid items and remove them from the list, only displaying items that have issues. The Lookup Details mode and Audit Manifest/HAWB mode do not display this button.

Input Panel
Each mode will have a slightly different looking Input Panel, but there are 2 main components.

Mode Specific Options
The top row of the image to the right shows the options used by the Status Scanning mode, which include Truck ID and Status. See the Modes section for more information about what is displayed in this part of the Input Panel for each mode.

Tracking Label Entry
The middle row of the image to the right has 3 buttons:

Show/Hide Keyboard – The Pilot Scanner app has a built in set of keyboards designed specifically for entering labels. See the Keyboards section for more information.

Add Item – Adds the current text from the edit field to the Scanned Items List

Scan with Camera – If the device has a camera, this will start a barcode scanning app and return once a barcode has been scanned. If a Honeywell device with a built in barcode scanner is used, this button should not be visible.

The bottom if the input panel is the tracking label text edit field. The text in this field will be the same across all modes to mimic a cut and paste effect.
Scanned Items List

The bottom part of the screen shows all the items that have been entered. Each mode will show different information.

Colors

The colors act as a quick notification about the item that was scanned:

Yellow – Item just added, waiting for information about the item to be downloaded

Green – Pro number has been found

Red – Something is not correct about the item, either no pro number was found, or the added item is not allowed with the given parameters. In the image below, the top item is invalid because the ALR status requires a Pilot or Amazon label but was given another tracking number type instead.

Blue – Multiple Pro# found and one needs to be selected. To select the correct one, tap the row to display a dialog with all possible options including the Pro#, ship date, shipper and consignee, and choose the correct one.

Light Blue – Multiple Pro# found and a valid one has been selected. To change the selection, tap the row to display the dialog.

Purple – Multiple Pro# found and an invalid one has been selected. To change the selection, tap the row to display the dialog.

The Scanned Item List is scrollable up-down and left-right to show more information, as shown below

<table>
<thead>
<tr>
<th>Label</th>
<th>STS</th>
<th>Truck ID</th>
<th>Pro#</th>
<th>User</th>
<th>Printer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1322044769</td>
<td>ALR</td>
<td>NOTRUCK</td>
<td>invalid: check settings</td>
<td>WILL</td>
<td>NONE</td>
</tr>
<tr>
<td>123456789</td>
<td>PU</td>
<td>NOTRUCK</td>
<td>963621168</td>
<td>WILL</td>
<td>NONE</td>
</tr>
<tr>
<td>2677987652190</td>
<td>PU</td>
<td>NOTRUCK</td>
<td>multiple</td>
<td>WILL</td>
<td>NONE</td>
</tr>
<tr>
<td>060901032</td>
<td>PU</td>
<td>NOTRUCK</td>
<td>060901032</td>
<td>WILL</td>
<td>NONE</td>
</tr>
<tr>
<td>?DSTAATLZ09VUH</td>
<td>PU</td>
<td>NOTRUCK</td>
<td>invalid: no pro found</td>
<td>WILL</td>
<td>NONE</td>
</tr>
<tr>
<td>?XXXXXXX070H54</td>
<td>PU</td>
<td>NOTRUCK</td>
<td>064010776</td>
<td>WILL</td>
<td>NONE</td>
</tr>
<tr>
<td>?DMDTPHLO70H55</td>
<td>PU</td>
<td>NOTRUCK</td>
<td>063788381</td>
<td>WILL</td>
<td>NONE</td>
</tr>
<tr>
<td>?DSTAATL05GPHW</td>
<td>PU</td>
<td>NOTRUCK</td>
<td>058520400</td>
<td>WILL</td>
<td>NONE</td>
</tr>
</tbody>
</table>

To remove or edit an item, press and hold on the row until the information is removed from the list and placed into the Input Panel, overriding any current values in the Input Panel. Make any necessary changes and press the Add Item button.
Keyboard

There are three keyboards designed specifically for entering tracking labels, the “QWERTY” keyboard, number pad and symbols pad are show below in that order.

When the keyboard button is pressed, the keyboard will become visible and hide either part or all of the Scanned Item List. If more room is needed as with the number pad, the Input Panel and Header are pushed up but are inside a scrolling container. As with the image to the right, the header is only partially visible, but it can be scrolled down and instead hide the text edit field.

The bottom left corner of all keyboards have 3 buttons in common, the left button will always hide the keyboard. The second and third button will switch to one of the other keyboard types.

Done Key

The “Done” button has different purposes depending on where the keyboard is being used. When used for entering a tracking label, it will act as the Add Item button. When used in menus like creating a user name, it will act as if clicking the “Done” button of the dialog box.

?- Key

The “?-” button on the QWERTY keyboard is for quickly entering Pilot labels. Only the last 6 characters of the Pilot label is need, therefore, this button will quick fill the beginning with “?D------”.

Clr Key

The “Clr” button will clear the contents of the text edit field. This button must be pressed twice in a row in order to activate. The color will change from red to grey to indicate the first press.
Modes

The modes can be accessed from the header menu and will show a dialog as shown to the right. Each mode has its own list of scanned items and switching modes will not clear the contents of Scanned Items List or the current values of the Mode Specific Options.

Status Changing

The Status Scanning mode is used for changing the status of shipments. All shipments must be entered using either the Pilot label stating with a ‘?’ or an Amazon label, except for pickups (PU).**

Not all shipments provided by a customer come with a Pilot label. If that customer provided a label with a unique identifier, and the same identifier is entered as a reference number, then it can be used for entering pickups. There is an option in the settings to automatically print Pilot labels for these shipments. Scanning just one item of a house bill will print all labels needed for that house bill.

Items scanned for Reversal (REV) status have the option of automatically printing a HAWB if the setting is enabled.

The auto-printing feature will not print duplicates if items of the same house bill are entered within a short timeframe. When an item is scanned and needs to print something, there is a 30 minute lockout to prevent the printing of duplicates. If 30 minutes have passed and another item from that same house bill is entered, the system will print a new set of labels/HAWB. The lockout is device independent so multiple devices can enter shipments from the same house bill and not print duplicates. Use the Printing mode to ignore the lockout feature, or if no status change is needed.

The Printer column in the Scanned Items List will only mention if a print request was sent, but has no way of determining if the printing was completed. There may be up to a 2 minute delay from when a print request is sent until the item starts printing since print requests are sent to the printer in batches every 2 minutes.

The statuses are uploaded approximately every minute, when the mode is changed, or when the user leaves the app. There will be a “^” on the left side of the row to indicate which items have been uploaded.

Trucks

The trucks listed in the dropdown are loaded from three locations:

1) Driver list from Navigator (3. File Maintenance -> 38. Driver Menu -> 1. Drivers)
2) Custom trucks loaded in the Scanner App (Settings>Advanced>Custom Trucks)
3) One freeform truck can be added by clicking the Trucks dropdown and selecting CUSTOM TRUCK ID. This custom truck will not be stored.

**For versions 4.3 and up, you can enter any label for any status change. This logic is now handled by Navigator.
**Status Codes**

PU – Picked Up – Shipment has been picked up from the shipper and is currently in Pilot’s hands
ALR – Alert – Shipment is ready to be transported to the next station
REV – Reverse Alert – Shipment has been received by the next station
RDA – Reverse Alert Damaged – Shipment has been received by the next station but has been damaged OFD
OFD – Out for Delivery – Shipment is on its way to the consignee
TRN – Transferred – Shipment has been given to a non-Pilot shipper for delivery
THD – Transferred Home Delivery – Shipment has been transferred to a non-Pilot home delivery agent
STC – Scanned to Carrier – Outside carrier is handling freight
DWA – Damaged, but will attempt delivery
OH1 – Origin Hold, 1 day (24 hours) – Shipment is on hold for 1 day with shipper
RNH - Received at Net Hub - Shipment has reached Net Hub station.
DT – Dropped/Tendered – Shipment has been given to a non-Pilot agent for transfer to the next Pilot station
SOR/5AL/5DS – Step backwards to At Origin/Alerted/At Destination

**Dock Check**

The Dock Check mode is used as an inventory system to determine where each item is located on dock.

The only accepted entry type is either the Pilot label starting with a ‘?’, an Amazon label, or a Pilot Pro# if there is only 1 item for that house bill. This is to ensure that each and every item is entered and not just assuming all items of the same house bill are accounted for.

The Locations drop down box has a unique list for each station. It is possible to add items to the list in the Settings menu, but this would have to be done on each device. To simplify things, contact support using the Contact Developer options in the Help section of the Settings, and request for an update to your station’s Location List. Once the developer has updated the list download it by using the download option in the Settings menu.

**Printing**

The Printing mode is used to print Pilot labels and HAWBs. This mode ignores any duplicate lockouts that are enabled by that Status Scanning mode. See the Status Scanning section for more details.

This mode can print items using Pilot labels, Pro#, Amazon labels, reference numbers, and MAWB numbers.

Click on the MAWB? button for formatting instructions for MAWB numbers. Scanned MAWB numbers may need to be manually altered to fit one of the accepted formatting schemes.
There may be up to a 2 minute delay from when a print request is sent until the item starts printing since the print requests are sent to the printer in batches every 2 minutes.

There are 3 options for the Printing mode:

**Printer Type**
Choose either Label or HAWB using the 2 toggle buttons.

**Printer ID**
Choose which printer to use from the dropdown.

**Print-Now**
This check box determines whether to submit the print request immediately or to wait and send all print requests at once when clicking upload.

## Shipment Details Lookup

The Details Lookup is useful for viewing information about a shipment, including information about the customers, shipment pieces, shipper notes, reference numbers, and status updates. This mode is very different. The Input Panel has no Mode Specific Options, and the Scanned Item List is replaced with a large scrollable view of details about a single shipment.

This mode can find shipments using a Pilot label, Pro#, Amazon label, or reference number. Visibility of each section within the Details Lookup can be toggled by pressing that specific section.

## Submit Damage Pic

Use this mode to upload damaged shipment pictures and information to the Documents Management Server (DMS).

Click the keyboard/number-pad buttons to the right of the edit boxes to fill in the two fields and press the camera button to open a camera application to take a picture. The image returned from the camera app will be scaled and placed at the bottom for reference.

A full sized image will be stored to the android device before uploading, usually in the “SD card/DCIM/Camera” folder, and will use the date and time as the file name. The image uploaded to the server will be a compressed version of the image stored on the devices, which will be resized to a maximum of 1280x1280.
Report Builder

This mode is designed for making reports and makes no changes to the shipments. It is used mainly for logistics, but can be used for other custom purposes as well. A separate report is generated per device per upload. There are no checks to determine if the barcode scanned is valid in any way.

There are 3 dropdown options:

Location
This is the same list that is used by Dock Check with the addition of an extra option, “NONE”, at the top of the list. See the Dock Check section for more information.

Status
This is the same list that is used by the Status Scanning mode with the addition of an extra option, “NONE”, at the top of the list as well as custom defined Statuses from the Settings Menu.

Group
This is used as a custom way to group items. If no group is selected, a random number is used per upload.

GE OEC Asset Check-in

The Asset Check-in mode is to verify that all Assets and Pieces of a GE OEC shipment are accounted for and not damaged during the shipment process. All Pieces of an Asset must be accounted for before moving on to the next Asset. Canceling a Check-in will require all Pieces to be re-accounted for. There are 3 phases to the Check-in process: Create Session, Select Asset, and Scan Pieces.

Create Session
Scan or type the HAWB number of the Asset(s) that will be Check-in. When the session is created, a list of all Assets associated with that HAWB will be downloaded and displayed in the Assets Dropdown.

Check Asset
Select an Asset from the Asset Dropdown, which are displayed using the Asset Code and text indicating if that Asset’s Check-in is “Open” or “Done”. Clicking the [Start] button will download the list of Pieces associated with the selected Asset and display all of them in the Scanned Items List. The Asset cannot be changed unless the current Asset Check-in is canceled. Once all of the Pieces have either a barcode scanned or marked as Missing/Damaged, click the [Done] button, then proceed onto the next Asset.
Bluetooth Barcode Scanners
There are several different Bluetooth barcode scanners available and a very large number of android devices that have Bluetooth. Compatibility is fairly decent if the Android device is running 4.0 or above, but not guaranteed.
<table>
<thead>
<tr>
<th>Price*</th>
<th>Honeywell: 1452g 1D</th>
<th>Honeywell: Dolphin 70e</th>
<th>TaoTronics: TT-BS016</th>
<th>Inatech: BCST-10 TEEMI: MTCT-10 POLOTON: CT-10 (AKA: CT-10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scanner: $150</td>
<td></td>
<td>Wi-Fi: $650</td>
<td>$70</td>
<td></td>
</tr>
<tr>
<td>Scanner Charging Dock: $100</td>
<td></td>
<td>Wi-Fi + GSM: $850</td>
<td>$70</td>
<td></td>
</tr>
<tr>
<td>4 Bay Battery Charger: $250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended For</td>
<td>High Volume Stations</td>
<td>Maximum Portability</td>
<td>Low Volume Stations</td>
<td>Using Older Android Devices</td>
</tr>
<tr>
<td>Scanner Type</td>
<td>CCD</td>
<td>Laser</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Built in light to scan in low/no light conditions</td>
<td></td>
<td>- Easier to control what part of barcode is scanned if barcode is damaged</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Can scan barcode on LCD screens (i.e. change settings)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Has no moving parts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Removable Battery</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Pros</td>
<td>- Rugged</td>
<td>- Rugged</td>
<td>- Inexpensive to replace</td>
<td>- Inexpensive to replace</td>
</tr>
<tr>
<td>- Offers 5 year accident replacement plan ($70)</td>
<td>- All-in-One device</td>
<td>- Removable Battery</td>
<td>- Works with older devices (pre 2012)</td>
<td></td>
</tr>
<tr>
<td>- Removable Battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cons</td>
<td>- Higher initial price point</td>
<td>- Much higher price compared to alternatives</td>
<td>- Embedded battery</td>
<td>- Embedded battery</td>
</tr>
<tr>
<td>Notes</td>
<td>- Discontinued, quantities limited</td>
<td></td>
<td>- Lacks technical support</td>
<td></td>
</tr>
</tbody>
</table>

*Pricing and availability subject to change without notice
<table>
<thead>
<tr>
<th></th>
<th>Honeywell: EDA50/51</th>
<th>Honeywell: CT-40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Price</strong></td>
<td>Scanner: $768</td>
<td>Scanner: $1100</td>
</tr>
<tr>
<td></td>
<td>Scanner Charging Dock: $40</td>
<td>Scanner Charging Dock: $170</td>
</tr>
<tr>
<td><strong>Recommended For</strong></td>
<td>Maximum Portability</td>
<td>Maximum Portability</td>
</tr>
<tr>
<td><strong>Scanner Type</strong></td>
<td>CCD</td>
<td>CCD</td>
</tr>
<tr>
<td></td>
<td>- Built in light to scan in low/no light conditions</td>
<td>- Has no moving parts</td>
</tr>
<tr>
<td></td>
<td>- Can scan barcode on LCD screens (i.e. change settings)</td>
<td></td>
</tr>
<tr>
<td><strong>Removable Battery</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Pros</strong></td>
<td>- Rugged</td>
<td>- Rugged</td>
</tr>
<tr>
<td></td>
<td>- All-in-One device</td>
<td>- All-in-One device</td>
</tr>
<tr>
<td></td>
<td>- Removable Battery</td>
<td>- Removable Battery</td>
</tr>
<tr>
<td><strong>Cons</strong></td>
<td>- Higher initial price point</td>
<td>- Much higher price compared to alternatives</td>
</tr>
<tr>
<td></td>
<td>- Not FCC Compliant in US</td>
<td></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>- Only works on 4.1 and up</td>
<td>- Only works on 4.5 and up</td>
</tr>
</tbody>
</table>

*Pricing and availability subject to change without notice*
Honeywell Voyager 1452g

This is the recommended scanner for most situations and is worth the initial investment.

All barcodes for this scanner can be found on the “Honeywell Voyager 1452g – Quick Reference” sheet.

Pairing
Scan the [Bluetooth Pair] barcode and search for new Bluetooth devices on the Android device. After clicking on the profile name, the scanner will most likely connect without prompting for a passcode. If a passcode is needed, scan the [Bluetooth PIN], the 6 [Number]s shown on the screen, then the [Save] barcode.

Batch Mode
If the Android device is unavailable, due to something like a low battery, Batch Mode will allow the user to perform scans, store them in the memory of the scanner, and transfer them later.

1. Scan [Batch Mode Enabled]
2. Scan the shipment barcodes that all have the same status/location
3. Power on Android device and make sure Bluetooth is connected
4. Open Pilot Scanner App, and enter the necessary status/location
5. Scan [Batch Mode Transmit]
6. Verify that all the barcodes have been transferred.
7. Scan [Batch Mode Clear]
8. Repeat steps 2+ until all shipments are complete
9. Scan [Batch Mode Disable] (don’t forget, otherwise, the next user might think the scanner is broken)

Honeywell Voyager 1452g – Troubleshooting
Please review the general “Android/Bluetooth Troubleshooting” section for other possible solutions.

Unable to pair
Before attempting to pair, ensure that the scanner’s profile on the Android device has been completely removed. An easy way to check is to remove the battery from the scanner so it’s impossible to pair, and see if there are any saved profiles on the Android device. The profile may be shown as either the scanner’s name “Honeywell Voyager 1452g”, the serial number, i.e. “15068B3234”, the MAC address, i.e. “74:C2:46:09:F0:1D”, or a 4 digit number if that setting was applied.

Once the profile has been completely removed, power the scanner back on and scan the [Bluetooth Unpair] then [Bluetooth Pair] barcodes. On the Android device, press the “Scan for Devices” button if necessary, and click on the scanner’s profile when it shows up. The profile name might be different depending on what profile data has been transmitted.

After clicking on the profile name, the scanner will most likely connect without prompting for a passcode. If a passcode is needed, scan the [Bluetooth PIN], the 6 [Number]s shown on the screen, then the [Save] barcode.
If the scanner is still having issues pairing, then perform a factory reset to clear all settings. Scan the [Remove Custom Defaults] then [Activate Defaults] barcodes and repeat the steps above to pair.

**Paired, but nothing is scanning**
It’s possible that the scanner is currently in Batch Mode. You will hear a slight click sound immediately after the scan beep as an indication. Simply scanning the [Batch Mode Disable] barcode should send all new scans to the Android device. If there are still issues, please follow the “Unable to pair” instructions.

**Trouble scanning some barcodes**
If the scanner is consistently having issues with certain barcodes, scanning the [Poor Quality 1D On] barcode might help.

**Only part of scan showing**
If a barcode that is supposed to look like “?DABCDEF012345” looks something like “?AC0”, then the scanner is transmitting faster than Android device can read. Increasing the Intercharacter Delay will slow down the transmit speed. To do this, first scan the [Intercharacter Delay] barcode, then the [Number] barcodes to indicate how many 5 millisecond increments to place between each character, and scan the [Save] barcode.

Here are some examples of what to scan:

<table>
<thead>
<tr>
<th>Intercharacter Delay</th>
<th>Save</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 0 &gt; Save</td>
<td>= no delay</td>
<td></td>
</tr>
<tr>
<td>&gt; 1 &gt; Save</td>
<td>= 5 milliseconds</td>
<td></td>
</tr>
<tr>
<td>&gt; 2 &gt; Save</td>
<td>= 10 milliseconds</td>
<td></td>
</tr>
<tr>
<td>&gt; 5 &gt; Save</td>
<td>= 25 milliseconds</td>
<td></td>
</tr>
<tr>
<td>&gt; 1 &gt; 0 &gt; Save</td>
<td>= 50 milliseconds</td>
<td></td>
</tr>
</tbody>
</table>

If the current setting is unknown or set to 0, start with the [1] setting (5 milliseconds), and increase by 1 until all scans are transmitting the full data. If the setting is too high (>50 milliseconds), then character duplication may occur.

**Duplicate characters when scanning**
If a barcode that is supposed to look like “?DABCDEF012345” looks something like “?DDDAAAABBBCC…” , then the scanner is transmitting too slowly and the Android device thinks it a key being held down. Follow the steps in the “Only part of scan showing” section to reduce the delay between characters.
# Honeywell Voyager 1452g – Quick Reference

## Bluetooth Pairing

<table>
<thead>
<tr>
<th>Barcode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Barcode]</td>
<td>Bluetooth Pair</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Bluetooth Unpair</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Bluetooth PIN</td>
</tr>
</tbody>
</table>

If an Android device displays a 6 digit number to be entered by the Bluetooth device, scan the “PIN” barcode, the 6 requested numbers on the next page, then “Save”.

## Scanner Settings

<table>
<thead>
<tr>
<th>Barcode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Barcode]</td>
<td>Beep Volume Off</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Beep Volume Low</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Beep Volume Med</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Beep Volume High</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Power Down 200 sec</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Power Down in Cradle</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Poor Quality 1D Off</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Poor Quality 1D On</td>
</tr>
</tbody>
</table>

## Batch Mode

<table>
<thead>
<tr>
<th>Barcode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Barcode]</td>
<td>Batch Mode Enable</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Batch Mode Transmit</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Batch Transmit Delay 0</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Batch Mode Disable</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Batch Mode Clear</td>
</tr>
<tr>
<td>![Barcode]</td>
<td>Batch Transmit Delay 250ms</td>
</tr>
</tbody>
</table>

Batch Mode: Scan multiple items before uploading to Android device, useful if Android device is out of range or low on power.

Transmit: Sends scans from barcode scanner to Android device, does not clear memory allowing for transmitting of same batch in case there was an issue with the upload.

Clear: Removes all scans from memory.

Delay: Time in milliseconds between each item during transmit. Default is 0, use 250 if scans do not seem to be transmitting properly.
**Numeric Settings References**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>0</td>
<td>Save</td>
<td></td>
</tr>
</tbody>
</table>

**Special Settings**

<table>
<thead>
<tr>
<th>Pairing Name</th>
<th>Intercharacter Delay</th>
</tr>
</thead>
</table>

Pairing Name: Displays the barcode scanner as a 4 digit number instead of serial number or MAC address when pairing device. Scan the “Pairing Name” barcode, up to 4 numbers from “Numeric Reference” then “Save”.

Intercharacter Delay: If barcode scanner seems to be skipping characters when scanning, increase the delay between each character. Scan the “Intercharacter Delay” barcode number(s) between 0 – 10 from the “Numeric Reference”, then “Save”. The value scanned is the number of 5 millisecond increments. Start with 1, to indicate a 5ms delay, but a value greater than 10 (50ms) might cause other issues, like keys being repeated.

**Resets**

- **Remove Custom Defaults**
- **Activate Defaults**
- **Restart**

Factory Defaults: Scan the first 2 barcodes to remove all settings.

Restart: Power cycles the scanner and reconnects to paired device.
CT-10 (Inatech/TEEMI/POLOTON)

The recommended scanner for older devices is one running the CT-10 chip. There are several different companies, but all seem to order the scanners from the same place and just place their label on the top since all of them look identical to the image to the right.

Known vendors:
Inatech: BCST-10
TEEMI: TMCT-10
POTOLON: CT-10

All three vendors are on Amazon’s website, and usually one of them will have available stock for sale.

Powering/Reconnecting

Hold the trigger for 2 seconds to power on the scanner. The scanner will automatically attempt to reconnect to the last known Android device. The scanner will power down after 10 minutes of no activity.

Pairing

If connecting the scanner to a new device, or the current device is having difficulties:

1. Scan the 2 barcodes to the right. This will reset the scanner and place it into discovery mode. (This will also clear the scanner’s memory, including any scans in offline mode that have not been uploaded)
2. On the Android device, under Bluetooth settings, press the “Search for devices” button (may vary by device).
3. Select the device with the name similar to “CT10############”
4. Enter the key “10010”. The scanner will beep signaling the new connection.

The scanner can only be paired to one device at a time. If using 1 scanner with 2 Android device, the scanner will need to perform these pairing steps each time the Android device is switched.
**Offline Mode**

The scanner has internal memory which is useful if scanning a large number of items without changing the mode specific settings.

The barcodes used for pairing the scanner will clear the scanner’s memory. Make sure the scanner is paired beforehand to reduce complication.

---

**Enter Offline Mode**
Places the scanner into offline mode, does not clear memory.

**Upload Data**
Sends the contents of the memory to current connection, does not clear the memory.

**Purge Data**
Clears the scanner’s memory

**Exit Offline Mode**
Uploads data, clears the scanner’s memory, and then disables offline mode.

---

**Retrieving Scanner Data Using Computer**

If the scanner is unable to connect using Bluetooth, but there is data in the memory, follow these steps to prevent having to find and rescan shipments.

1. Connect scanner to computer using USB cable. (There should not be any issues with installing drivers)
3. Clear the text from the data field and make sure the cursor has focus in that field
4. Scan the “Upload Data” barcode above. (This should place the scanned item into the text field. If there are too many items for the text field, upload the scans into any text editor, then copy and paste in parts)
5. Click the “Generate Barcode” button.
6. Print the pages with the barcodes. (Laser type scanners are unable to scan from computer screens. Resize barcodes as needed with onscreen settings)
7. Pair scanner to Android device as normal.
8. Scan barcodes from paper.

---

**Other Notes**

When the scanner is connected to a computer through USB, scanned data will be sent to the computer and not be sent via Bluetooth even if the scanner and an Android device are properly connected.

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**Quick Reference Sheet**

- Pairing (key=10010)
- Enter Offline Mode
- Upload Data
- Purge Data
- Exit Offline Mode
Amazon Kindle/Fire HD (OS 5.0+)

Required Settings

Wi-Fi
Settings > Wireless > Wi-Fi
Wi-Fi = ON
Join Other Network
Network SSID = Station city in all capitals followed by “AP” without any spaces
Security = WPA/WPA2 PSK
Password = Please ask your supervisor for the Wi-Fi password
The Wi-Fi is usually hidden and will not show up in the listing during a search.

Bluetooth
Settings > Wireless > Bluetooth
Bluetooth = ON

Display Sleep
Settings > Display
Display Sleep = 30 minutes
Usually, 5 minutes or more will be enough to ensure the screen doesn’t turn off during use.

Apps from Unknown Sources
Settings > Security
Apps from Unknown Sources = ON
Allows the installation of applications not downloaded from the Amazon Store.

Other Important Settings

Disable Hardware Keyboard
Settings > Keyboard & Language> Current Keyboard
Hardware = On
The “On” will allow for use of the onscreen keyboard while the scanner is attached, it does not actually disable the use of the scanner.

Change Your Fire’s Name
Settings > Device Options
Troubleshooting

Wi-Fi Connection

Quickest Fix - Reset the Wi-Fi Chip:
Go to "Settings > Wireless > Wi-Fi"
Hit the toggle on the right to turn the Wi-Fi off
Wait a few seconds
Turn it back on.

Quick Fix - Reset the Kindle:
Hold the power button until a menu pops up onscreen (2 seconds)
Click "OK" to power down
Wait a few seconds
Hold power button for a few seconds until the kindle starts to power back up.

Standard fix - Re-enter Wi-Fi Settings:
Go to "Settings > Wireless > Wi-Fi"
Press and hold on the station’s Wi-Fi connection until a menu pops up
Choose "Forget network"
Re-enter the connection following the steps in the Required Settings section.
Settings

The Settings menu can be accessed from the Header menu in any mode

Help/About

Buttons
Quick reference for information about the buttons common to every mode.

Scanned Items List
Quick reference for information about the Scanned Items List. See the User Interface – Scanned Items List section for more information.

Bluetooth
Quick reference for information about Bluetooth scanners. See the Bluetooth Scanners section for more information.

Contact Support

Email Support – Contact support directly from the device using an email client, or email from a computer using the email address listed in the fine print of the Email Support button

Request Feature – Contact developer directly from the device using an email client, or email from a computer using the email address and subject line listed in the fine print of the Request Feature button

Report Issues – Contact developer directly from the device using an email client, or email from a computer using the email address and subject line listed in the fine print of the Report Issue button

Immediate Help Phone Number – Contact support directly from the device if it supports phone calls, or call the number listed in the fine print of the Immediate Help Phone Number button

Check for Updates (v #.##)
Checks the server for any updates and displays the results even if no updates are available. You can also install older versions of the apps that are still supported from the results window.
Initial Setup

Station/Check for Authorization/User Name
See Initial Setup section at the beginning of the document for details

Printer for Auto-Printing PU Labels
If a shipment has a barcode that is under the shipment's reference numbers list, that barcode can be scanned for pickup. A Pilot label will still be required, so this option allows labels to be printed automatically if possible. If a shipment has multiple packages, a label will be printed for each item, but duplicates will not be printed if another item from that same shipment is scanned soon after (about 30 minutes since first item). Print jobs are sent to the printer in 2 minute intervals, so there may be a delay between scanning the item and when the label is printed.

Printer for Auto-Printing REV/RDA HAWBs
Select a printer to have a house bill printed when scanning a shipment for REV/RDA status. If a shipment has multiple packages, duplicate HAWBs will not be printed if another item from that same shipment is scanned soon after (about 30 minutes since first item). Print jobs are sent to the printer in 2 minute intervals, so there may be a delay between scanning the item and when the HAWB is printed.

Download Locations Lists
The locations list is used by the Dock Check and Raw Label modes to identify where on the dock the shipment can be found. To add or update your station please email the Request Feature email address.

Advanced

Custom Statuses
Displays a dialog to add, edit or remove custom defined statuses used by the Report Builder Mode

Custom Locations
Displays a dialog to add, edit, and remove custom defined locations used by the Dock Check and Report Builder Modes. Depending on the number of locations, it may be better to contact support and have those locations added to the downloadable list under the Initial Setup Settings.

Temporarily Suppress Updates**
Enabling this option will prevent the installation of newer version while the currently installed version is still supported. If there is an issue with the newest version, please contact support immediately so that the working version maintains a supported status until a fix has been implemented.

***If you have below version 4.0, you will have to manually update the app here
Android/Bluetooth Troubleshooting

Reset/Uninstall App

1. Go to Android Settings
2. Click on Apps/Application
3. Navigate to “All Applications”
4. Scroll down to and click on “Pilot Scanner” to display the screen shown to the right.

“Uninstall” and “Clear data” will remove ALL data including settings.

To reinstall the app, check your “Downloads” folder using the Android’s file browser. If an update was downloaded, it will have a filename in the form of “pilotscanner_#_#.apk” where the # represents the version. In the case for the image to the right, the filename will be “pilotscanner_0_18.apk”. Please install the highest available number, or contact support to get a link for the newest version.

Android’s Onscreen Keyboard Missing

Android devices see Bluetooth scanners as hardware keyboards and think it’s best to disable the onscreen keyboard, even though there is nothing to type with. There is an option in the Android’s keyboard settings to “Disable Hardware Keyboard”. This setting is inappropriately named because nothing is actually disabled, instead it assumes the hardware keyboard is unable to be used, and therefore shows the onscreen keyboard regardless of the hardware keyboard’s usability.

This setting can be in different location depending on the Android device, and most devices will not show the setting unless a physical keyboard is present. Therefore, connect the Bluetooth scanner and follow one of these instructions.

For most Android devices:
System Settings/Settings > Language & input > Default > Hardware Physical Keyboard Off

Amazon Kindles:
Swipe down from top > Settings > Keyboard & Language> Current Keyboard > Hardware = On
Tips

Android’s Home/Back Button
Pressing the Android’s “Back” button will upload all pending background information, like audit scans and logging info, then close the program completely in order to free up the memory. Going back into the program will place the user in the “Status Changing Mode”. The home button will keep the app in memory and upload the background information at its normal schedule. Going back into the app will place the user exactly where they left off. Leaving the app will never cause a loss of data. Scans are saved immediately, so even pulling the battery while running the app should not cause a loss of data.

Connecting to Wi-Fi
1. Go to Android Settings
2. Click on Wi-Fi and enable/turn on if needed
3. Click on the Android’s Menu button and click “Add Network”
4. Type the station name in all capitals followed by “AP”
5. Select the Security option that has “WPA2”
6. Type the password, which is usually the station name, and click “Connect”

Some stations may have a number at the end of the password. If the device does not connect after 60 seconds, remove the connection, restart the device, and try again. The network is hidden and will not show up by simply performing a search.

SSID: _______________________
Password: _____________________