

USER GUIDE

GFX Display Series



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Legal Notices

Agriculture Business Area

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Safety Information

Always follow the instructions that accompany a Warning or Caution. The information they provide is intended to minimize the risk of personal injury and/or damage to property. In particular, observe safety instructions that are presented in the following format:

WARNING – This alert warns of a potential hazard which, if not avoided, could result in severe injury or even death.

CAUTION – This alert warns of a potential hazard or unsafe practice which, if not avoided, could result in injury or property damage or irretrievable data loss.

NOTE – An absence of specific alerts does not mean that there are no safety risks involved.

Warnings

WARNING – When you are working on the vehicle's hydraulic systems, vehicle attachments that are suspended can drop. If you are working around the vehicle, you could suffer serious injury if an attachment dropped on you. To avoid this risk, lower all vehicle attachments to the ground before you begin work.

WARNING – If someone else attempts to drive the vehicle while you are working on or under it, you can suffer serious or fatal injuries. To avoid this possibility, install a lockout box on the battery terminal to prevent the battery from being reconnected, remove the key from the vehicle's ignition switch, and attach a "Do not operate" tag in the cab.

WARNING – Agricultural chemicals can pose serious health risks. If the vehicle has been used to apply agricultural chemicals, steam clean the vehicle to remove any chemical residue from the areas of the vehicle where you will be working.

WARNING – Vehicle cabs can be quite high in the air. To avoid potentially serious injury through falling from this height, always use the steps and handrails, and face the vehicle, when you enter or exit it.

WARNING – Vehicles must be parked on a hard, level surface with the front and rear wheels blocked. The steering must be aligned straight ahead. For articulated vehicles, articulation locks must be installed.

Cautions

CAUTION – When the vehicle has been running, parts of the vehicle, including the engine and exhaust, can become extremely hot and can cause serious burns. To avoid burns, allow hot machine parts to cool before you begin working on them.

CAUTION – The system installation may bring you into contact with chemical substances, such as oil, which can cause poisoning. Wash your hands thoroughly after you finish working on the system.

CAUTION – Battery posts, terminals, and related accessories contain lead and lead compounds, which can cause serious illness. To avoid ingesting lead, wash your hands thoroughly after touching the battery. Take care not to short-circuit the battery with tools and/or by the incorrect fitting of cables as fire, burns, and damage can occur.

CAUTION – Always wear protective equipment appropriate to the job conditions and the nature of the vehicle. This includes wearing protective glasses when you use pressurized air or water, and correct protective welder's clothing when welding. Avoid wearing loose clothing or jewelry that can catch on machine parts or tools.

CAUTION – Parts of the vehicle may be under pressure. To avoid injury from pressurized parts, relieve all pressure in oil, air, and water systems before you disconnect any lines, fittings, or related items. To avoid being sprayed by pressurized liquids, hold a rag over fill caps, breathers, or hose connections when you remove them. Do not use your bare hands to check for hydraulic leaks. Use a board or cardboard instead.

CAUTION –

Do not direct pressurized water at:

- electronic or electrical components or connectors
- bearings
- hydraulic seals
- fuel injection pumps
- any other sensitive parts or components

Set the hose pressure as low as practicable, and spray at a 45° to 90° angle. Keep the nozzle of the power washer away from the machine at the distance recommended by the manufacturer.

CAUTION – To prevent damage to the system, make sure that no wires or hoses interfere with or catch on any mechanical linkages, or contact any machine parts that get hot.

Federal Communication Commission (FCC) Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Contains FCC ID: **I4L-BM25SD**

Industry Canada Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-3(B)/NMB-3(B)

Radiation Exposure Statement

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Déclaration d'exposition aux radiations:

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé. Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

Contains IC: **3715A-BM25SD**

Contient des IC: **3715A-BM25SD**

100BASE-T1 (BroadR-Reach) Network Interfaces

The following network interfaces and/or services are exposed by the factory default state.

- DHCP Server
- Apache Thrift
- VRS Passthrough
- TNFS Server

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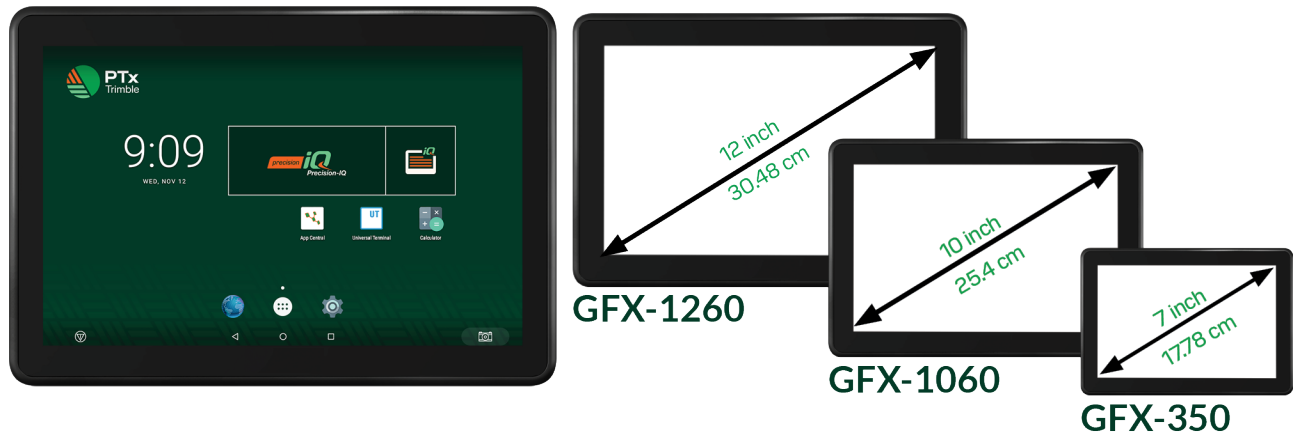
GFX Display Overview

- Introduction to the GFX Display Series
- GFX Display Rear View Connectors
- GNSS Guidance Controller Rear View
- Connecting a GFX Display to a GNSS Guidance Controller

Introduction to the GFX Display Series

The GFX series of displays were designed and developed to work in the most rugged of farm environments. With sizes starting at 7 inches (17.8 cm) and larger, each display includes built-in Wi-Fi and Bluetooth® support and provides the operator with an extensive view of any field task.

GFX Display Series



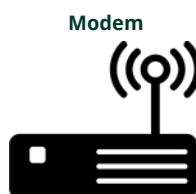
Paired with a receiver from the NAV family of GNSS guidance controllers, a complete precision agriculture experience awaits you!

NAV Receiver Series



Connectivity

GFX displays include Wi-Fi functionality built right in to take full advantage of your existing network.



GFX Display Rear View Connectors



(GFX-1260 display shown)

Item	Description
1	Power button: Turn the display on or off.
2	USB port(s): Connect a USB drive to transfer data to/from the display. <i>7-inch display: 1 port only</i>
3	Expansion Port 1 (M12 5-pin, blue): Connect to various inputs and outputs
4	Expansion Port 2 (M16 8-pin, red): Connect to various inputs and outputs <i>Port not available on some models.</i>
5	Power connector: Connect to power source. This connection also provides CAN communication, ignition sense in, and relay out control.
6	Ethernet port/power out: Connect to and power GNSS guidance controller (GNSS-1).
7	Ethernet port/power out: Connect to and power GNSS guidance controller (GNSS-2). <i>Port not available on some models.</i>

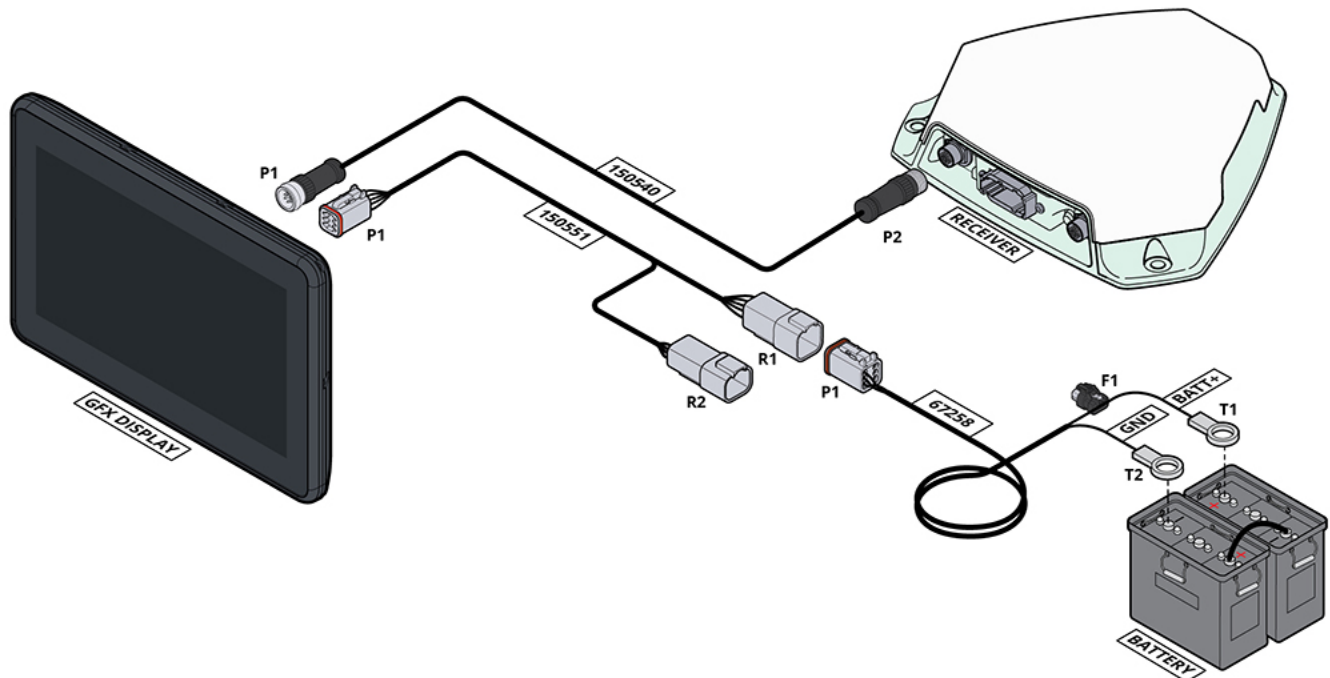
GNSS Guidance Controller Rear View



1	2	3
Ethernet port/power in (4-pin D code)  Connect to and receive power from the display.	Main port (12-pin DTM)  Connect to various auto guidance systems.	Radio port (5-pin A code)  Connects to an RTK radio or a non-Wi-Fi modem. NAV-900 only

Connecting a GFX Display to a GNSS Guidance Controller

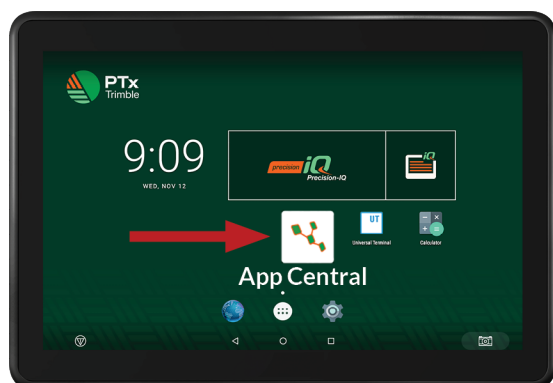
CAUTION – Some connectors may appear similar, but are coded differently to ensure correct component mating. Check that you have the correct cable before connecting, and do not use excessive force or damage may result.



App Central Overview

- App Central Marketplace
- System Information
- Managing Licenses
- Over-the-Air (OTA) Firmware Updates

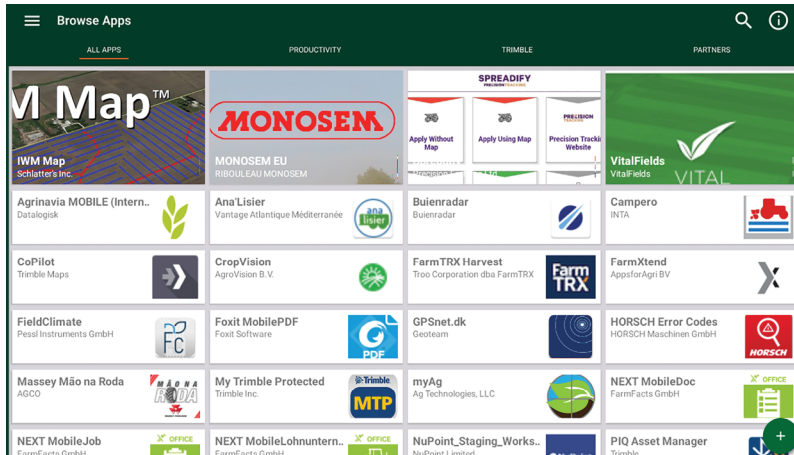
From the Launcher screen, tap the **App Central** icon to open the App Central Marketplace:



NOTE – If the App Central icon is not on the Launcher screen, find it under Android's **All Apps**. Tap and drag the **App Central** icon onto the Launcher screen.

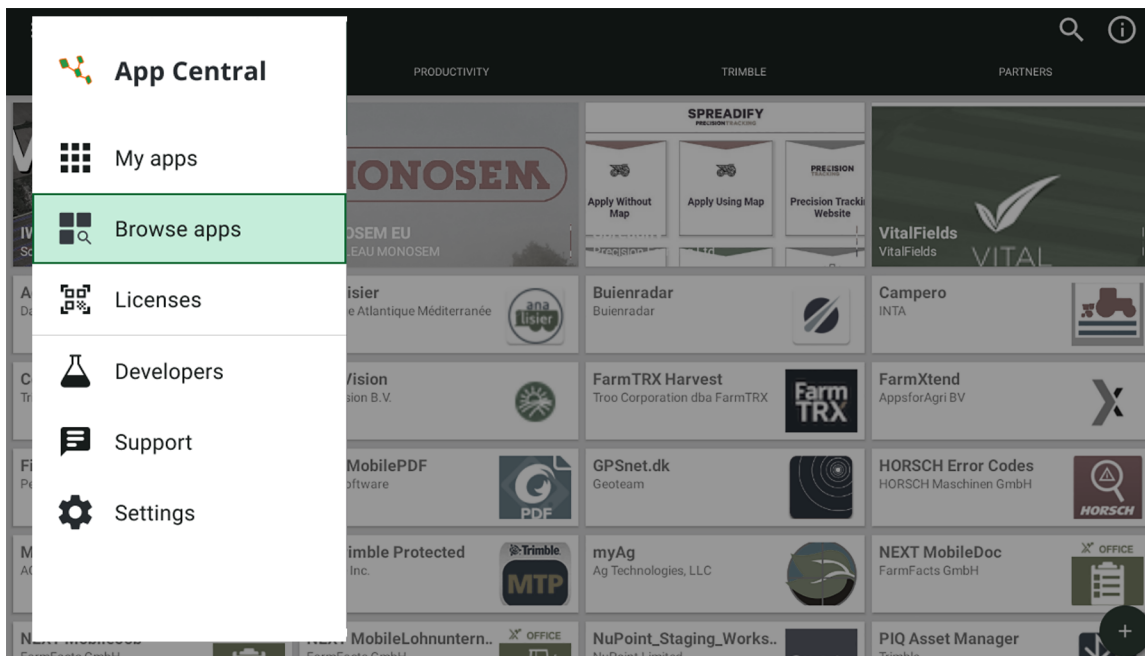
App Central Marketplace

App Central includes a variety of tested, third-party apps you may find useful for your farm. From the Launcher screen, tap the **App Central** icon to open the App Central Marketplace:



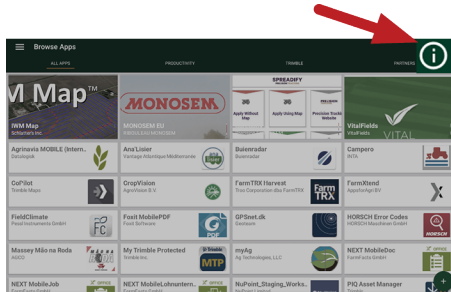
- **Browse Apps:** shows the available apps you can download to your GFX display when there is a connection to the Internet.
- **My Apps:** shows the apps installed on your GFX display when there is not a connection to the Internet.

A menu item allows you to select between *My Apps* and *Browse Apps*:



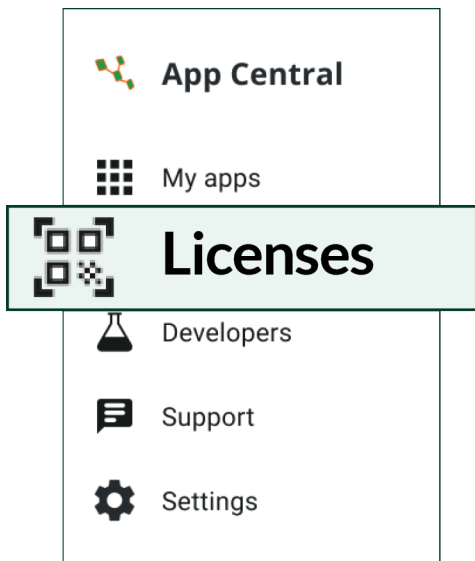
System Information

Tap the **System Information** icon to view details about your display, including manufacturer, serial number, and installed firmware version:

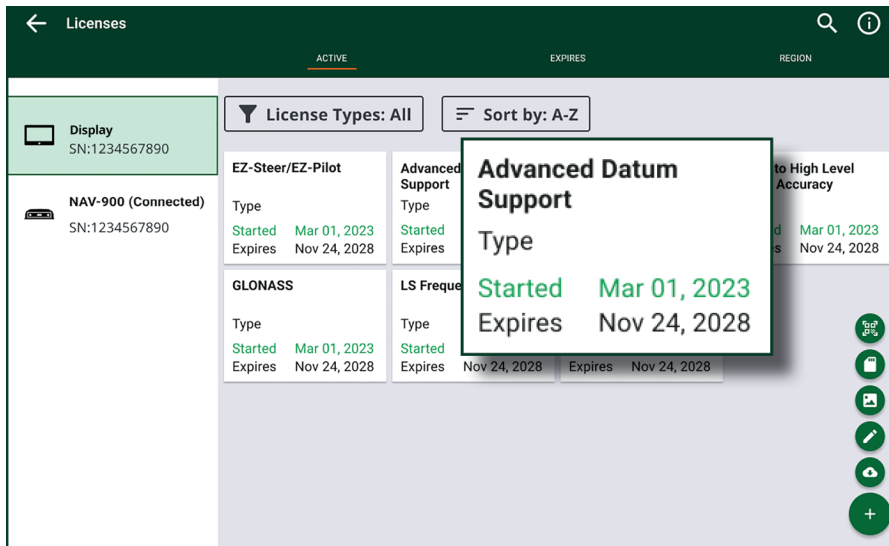


Managing Licenses

Any license purchased, downloaded, and installed onto the display or GNSS controller is managed through App Central. Tap the hamburger menu icon in the upper left corner to open the App Central menu and select **Licenses**:



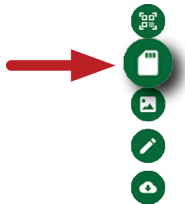
Click the device you want to review to browse active licenses, view license start/expiration dates, and manually apply a license. As your requirements change, you can add features and functionality to Precision-IQ. Each license applied is shown here:



NOTE – Contact your authorized dealer for details about new features available for your display.

Install a License from a USB Drive

1. On the App Central screen, tap the **Add** icon  in the lower right corner:
2. Tap the **Install from USB** item:



3. In the pop-up window for your USB drive, tap the license file you want to install. The license will be installed automatically.

NOTE – If the license does not install in App Central Licensing; verify the Serial Number of the display and the selected license file title to make sure that the proper **Serial_Number.license** file was selected.

Scan a QR Code to Install a License

Licenses can be installed via the scan of a QR code as an alternative to loading the file from a thumb drive for compatible displays.

1. On the App Central screen, tap the **Add** icon  in the lower right corner:
2. Tap the **Scan QR Code** item and aim the display's camera at the QR code:



NOTE – The GFX-350/XCN-750 displays do not include a camera. Installing a license by scanning a QR code is not available with these displays.

- To scan more than one QR code, tap 
- When you are finished scanning, tap 

Over-the-Air (OTA) Firmware Updates

TIP –

Before applying any firmware update, always back up the display's user data.

After rebooting the display with a firmware update, Precision-IQ resources (*vehicle, material, implement, etc.*) are automatically cleared and will need to be reselected.

By enabling the **Over the Air (OTA) Firmware Updates** notification feature and using the display's built-in Wi-Fi capabilities, authorized resellers have the option to deliver a firmware update directly to their customer's GFX display. (*Precision-IQ firmware version 13.40 or newer is required for OTA updates.*) The end user can download and install the update at their own convenience.

NOTE – Manual installation will continue to be supported, especially for end users without or with very slow internet connectivity.

OTA Requirements

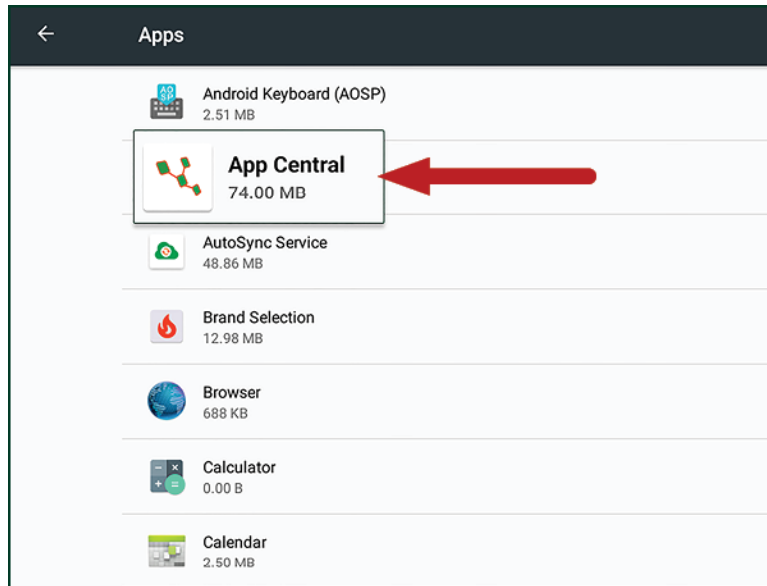
Connectivity: To receive an OTA firmware update, an end user's display must be able to access a strong Wi-Fi (or cellular hotspot) network. The file size of a firmware update typically ranges from approximately 400 MB to 550 MB. If the download process is interrupted because of a slow or unstable network, then a new download may need to be initiated.

NOTE – When using a hotspot for internet connectivity, data rates may apply. The end user should check with their service provider for any limitations for data downloads.

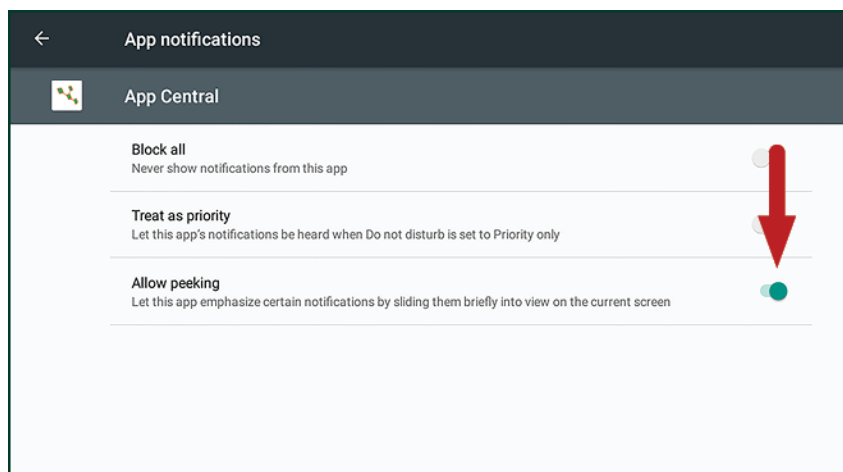
Enable Notification

Verify that the appropriate notification setting is enabled:

1. On the *Launcher* screen, tap **Settings** and select **App Notification**.
2. On the *App Notification* screen, tap **App Central**:

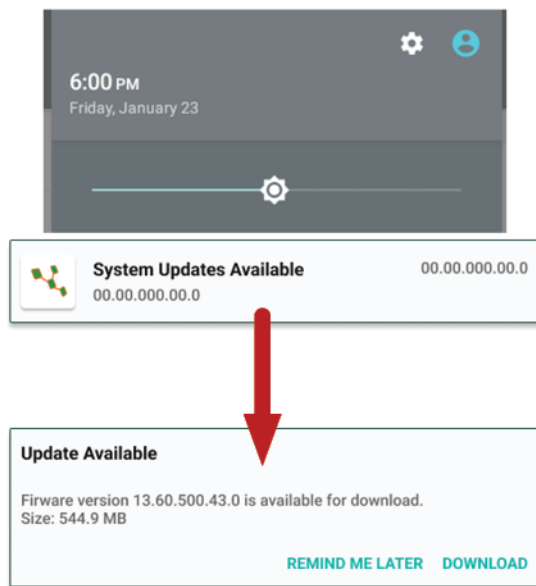


3. In the notification settings for App Central, verify that **Allow peeking** is enabled:

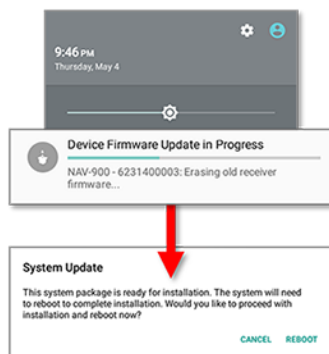


Download and Install a Firmware Update

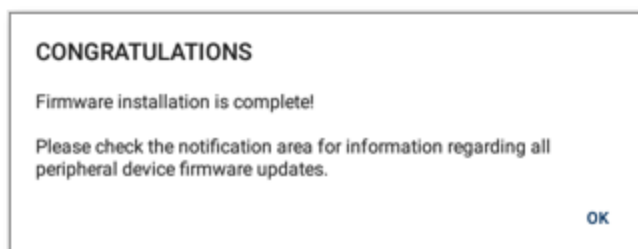
1. When the dealer prepares and sends an update, a firmware update notification appears on the display. The end user acknowledges the notification and downloads the firmware update.



2. When the download is complete, the end user starts the installation and reboots the display when installation is complete:



3. The display restarts using the installed firmware to complete the reboot.



Precision-IQ Overview

- Precision-IQ Home Screen and Run Screen Overview
- Common Icons in Precision-IQ
- Set Up and Select Precision-IQ Resources
- Operator Login and Permissions

The PTx Trimble Precision-IQ™ field application for supported displays is an easy-to-use advanced field management system. From the *Launcher* screen, tap the **Precision-IQ** widget to launch the application:

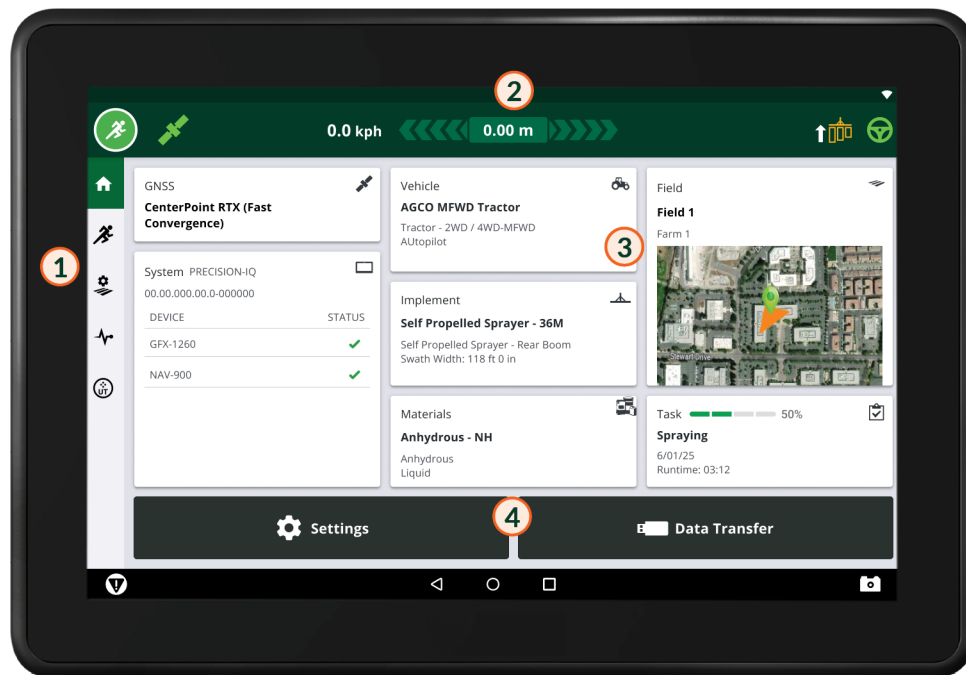


Precision-IQ Home Screen and Run Screen Overview

Most of the field work is accomplished through the Precision-IQ Home screen and Run screen. This section provides a general tour of what you can expect to find on these screens.

NOTE – The Run screen will automatically update with the appropriate icons and features as you apply new licenses.

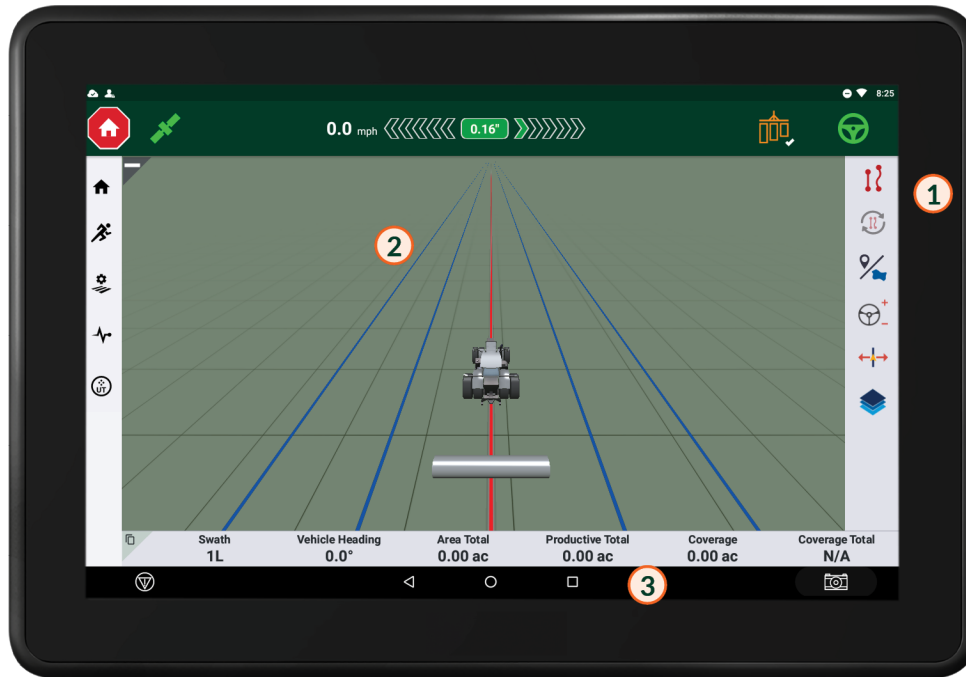
Precision-IQ Home Screen Overview



Area	Description
1	Activity bar. Navigate to other activity functions. This bar is persistent for all screens in Precision-IQ.
2	Status bar. View an at-a-glance status of Precision-IQ features currently in use. You can also engage application coverage and auto steering.
3	Resource tiles. Tap these tiles to create and manage the resources used within Precision-IQ. Each tile shows the current resource selected or if a change is needed to accomplish a specific task. These tiles are only available when viewing the Home screen.
4	Function buttons:  Settings Use the Settings button to customize the Precision-IQ environment.  Data Transfer Use the Data Transfer button to transfer data to and from the display and to delete items from the display.

Precision-IQ Run Screen Overview

The Run screen shows the activity of the work being done in a field.

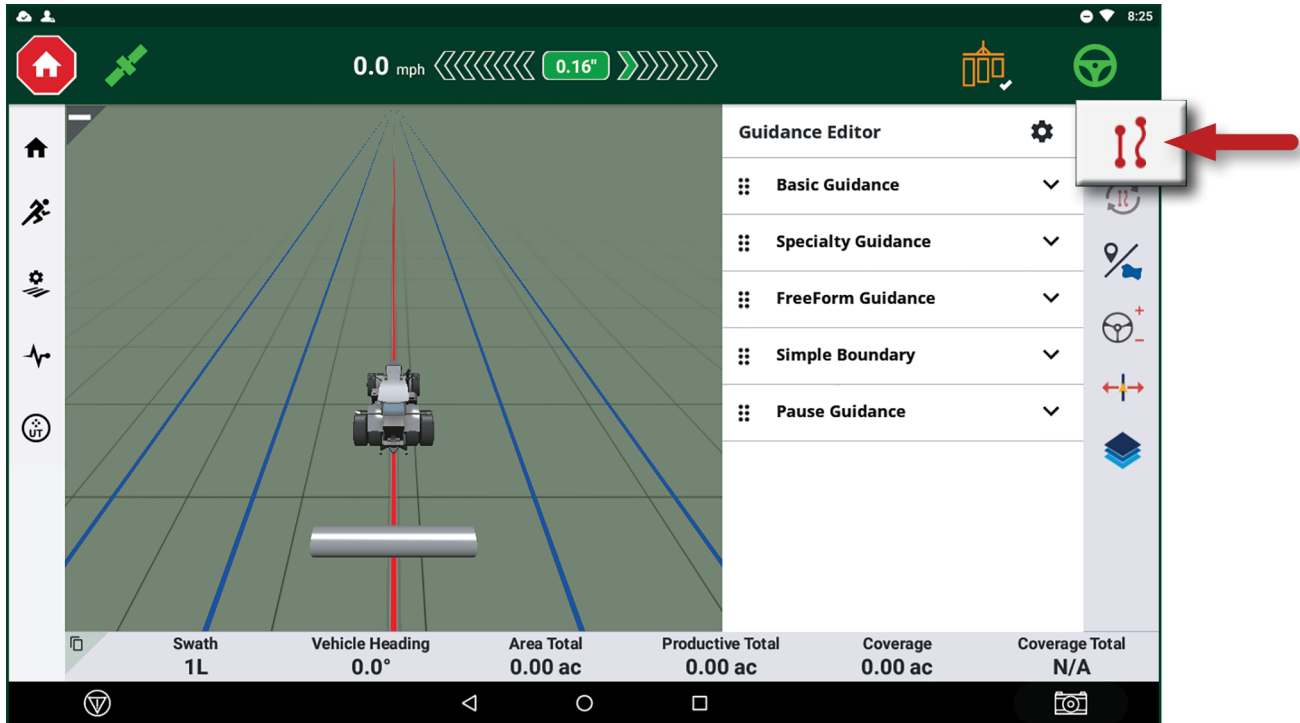


Area	Description
1	The Run screen Feature buttons are available for you to update/configure a feature in real time. As you install licensed features, buttons for those features will automatically be added.
2	The Virtual Map shows the orientation and action of the vehicle. This map will automatically update to show guidance patterns, landmarks, etc.
3	The Information Bar along the bottom shows the activity information. The details will be updated to show the work in progress. Swipe left/right to show additional details.

Customize Run Screen Functions

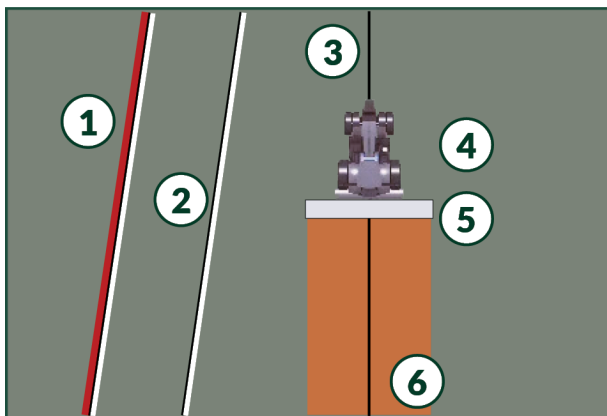
Tap a feature button to open a drawer where you can configure and modify on the fly, the settings for that function.

For example, tap the **Guidance Editor** button to open the *Guidance Editor* drawer. From here you can record a guidance line, set a simple boundary, create headlands, and more:



Run Screen Virtual Map Elements

As you continue to work the field, the virtual map continually refreshes to show the position of the vehicle in relation to the work that has been done and the relevant boundaries of the field.



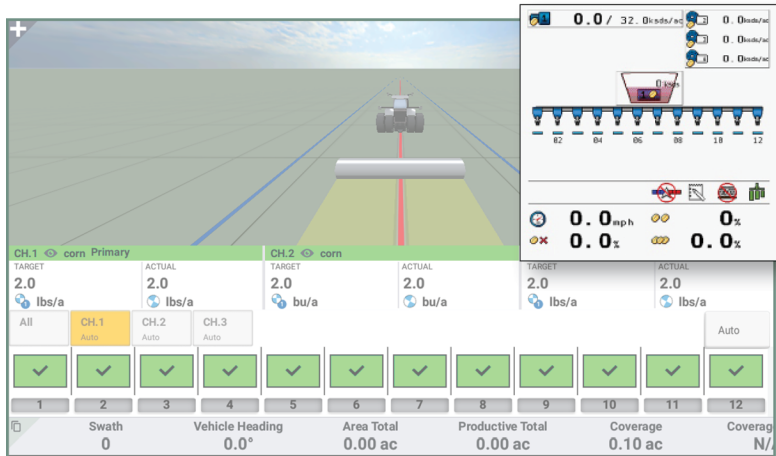
Area	Description
1	Field boundary. This line shows the outer boundary of your field.
2	Headland. An area assigned to allow the vehicle to turn around for the next swath.

Area	Description
3	Guidance line. The line to drive the vehicle to optimize field coverage.
4	Vehicle. Your position within the field.
5	Implement. The equipment that completes the selected task. When a different implement is used, the guidance lines automatically update to accommodate any changes in implement width.
6	Coverage. As work is performed in the field, the coverage shows the area of the field that has been complete.

ISOBUS Implement Support

External devices enable unique information inputs - such as a Universal Terminal (UT) interface with an attached ISOBUS implement.

When you connect an ISOBUS implement, the *Run* screen provides the interface to manage the implement.



Common Icons in Precision-IQ

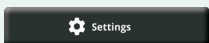
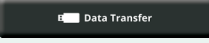
The Precision-IQ user interface includes icons and buttons used to enable and configure a variety of functions and activities in the application. For details on how to configure and select Precision-IQ resources, contact your authorized PTx Trimble Reseller.

Precision-IQ Home Screen Icons

Activity Bar Icons

Icon	Description
	Return to the Precision-IQ Home screen.
	Return to the Run screen.
	Open the Field Manager . Customize and configure details about your field.
	Open the Diagnostics screen. Generate detailed reports on various Precision-IQ activities.
	Open the Universal Terminal (UT) . The UT is the interface for connected ISOBUS implements.
	Access an optional External Camera . If your system does not have an external camera, then this icon will not appear.

Function Buttons

Button	Description
	Tap the Settings button to enable/disable, customize, and configure the features within the Precision-IQ environment. As feature and functionality licenses are applied, the list of settings will update to include the licensed feature.
	Tap the Data Transfer button to transfer data to and from the display. Insert a USB drive into the USB port to transfer any data. See Data Transfer for more details. Also, use the Data Transfer function to delete profiles for vehicles, implements, fields, tasks, materials, and users. NOTE – Take care when deleting data. If your display is enabled for AutoSync, deleting data will erase it from your display and all connected AutoSync devices.

Status Bar Icons

The icons in the status bar will change to reflect the current activity being performed within Precision-IQ:

Icon	Description
	The Run button shows that work is ready to begin. Tap this button to enter the Run screen.
	The Stop button shows that work is being done in the Run screen. Tap this button to end a task and exit the Run screen.
	Check the GNSS Status with this icon. Tap this icon to show the number of satellites currently in use. Color coded to show at-a-glance GNSS and Correction status.
	When green, Coverage Logging is active. Color coded to show the different states.
	Enable Autosteer , when available. Color coded to show the different states: • Red - not ready to engage • Yellow - ready to engage • Green - Engaged
	Vehicle Heading Swapper . Changes the vehicle heading.

Precision-IQ Run Screen Icons

CAUTION – Take care when setting up these details. The values you set in these steps are critical for in-field system performance and data integrity during run time operations.

Run Screen Feature Buttons

Button	Description
	Tap the Guidance Editor button to open the <i>Guidance Editor</i> drawer to define the boundaries, headlands, and guidance lines for your field.
	Cycle through the currently created guidance patterns for your field using the Pattern Select button.
	Tap the Field Features button to open the Field Features drawer for a variety of point, lines, and area landmarks to add to your field.
	Tap Steering to set the steering aggression.

Button	Description
	Tap Nudge to set the amount of Nudge previously configured in <i>Settings > Steering and Guidance</i> . This button also takes you to Remark where you can <i>Remark to Here</i> or <i>Remark by an amount</i> .
	Tap Layers to see different aspects (layers) of coverage on the screen.

Basic Guidance Pattern Icons

Icon	Description
	Create a simple AB Guidance Line when you do not need a headland and you want to drive the field in parallel straight lines. AB lines are <i>always</i> parallel unless different AB line sets are made. Use A+ to define a heading.
	Create an A+ Directional Guidance Line when you need guidance exactly parallel to the last AB line or on a desired heading.
	Record a Curved Line when you want to work the field with gentle curves.

FreeForm Guidance Pattern Icons

Icon	Description
	Create a FreeForm AB Line for your field. Use this guidance line to adapt the guidance behavior to fit your field shape.
	Create a FreeForm Curve for your field. Use this guidance line to adapt the guidance behavior to fit your field shape.

Specialty Guidance Pattern Icons

Icon	Description
	Create a Headland for your field. Use this pattern to complete the infield and give you room to turn.
	Record a Pivot for fields that are irrigated using a center pivot.

Landmarks Icons

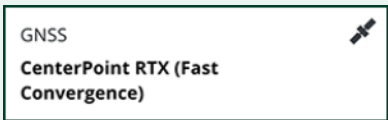
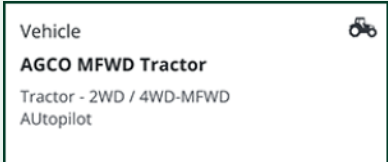
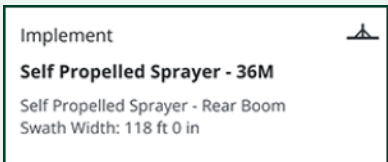
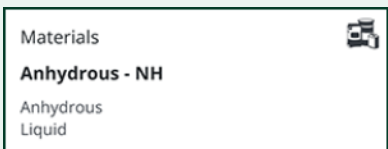
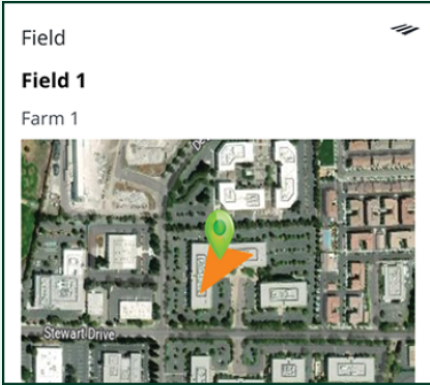
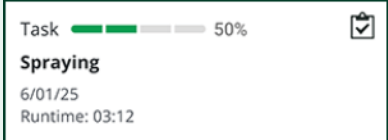
Icon	Description
	Create a Landmark Point for your field. A Landmark Point identifies singular elements of your field to be avoided, such as a well head, rock, gate location, etc.
	Create a Landmark Line for your field. Use this line to identify continuous elements of your field to be avoided, such as a fence, ditch, access road, etc.
	Create a Productive Landmark Area for your field, such as a crop zone.
	Create a Nonproductive Landmark Area for your field, such as a pond, marsh, or area that does not need to be worked again.

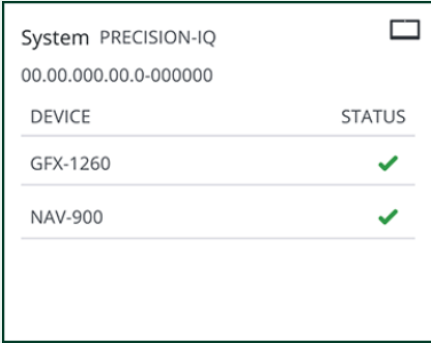
Set Up and Select Precision-IQ Resources

The Precision-IQ Home screen contains the resources you will use when performing work in a field. Tap a resource tile to set up and select a profile for the task you want to complete.

CAUTION – Take care when setting up these details. The values you set in these steps are critical for in-field system performance and data integrity during run time operations.

Resource Tile Overview

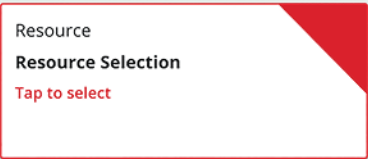
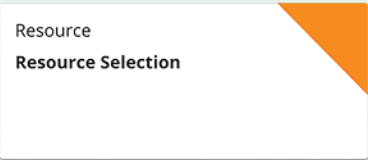
Tile	Description
	The GNSS resource tile shows the selected method of GNSS correction. Tap this tile to select and configure the GNSS settings.
	The Vehicle Profile resource tile shows the selected vehicle profile. Tap this tile to create and manage the configurations for a variety of vehicles. With an installed autoguidance license, the settings for this supported feature become available.
	The Implement resource tile shows the selected implement profile. Tap this tile to create and manage the configurations for a variety of implements. With an installed application control license, the settings for this supported feature become available.
	The Material resource tile shows the selected material profile for a particular task. Tap this tile to create and manage the profiles for a variety of materials to be used with application control.
	The Field resource tile shows the selected field of a farm. A farm may have more than one field, and a client may have more than one farm. Tap this tile to create, manage, and select a field. A field must be selected before any work can be performed.
	The Task resource tile will update to work with the selected implement and material resources. Tap this tile to create or select a task.

Tile	Description						
 The screenshot shows a 'System PRECISION-IQ' tile with a status bar '00.00.000.00.0-000000'. Below is a table with columns 'DEVICE' and 'STATUS'. <table border="1"> <thead> <tr> <th>DEVICE</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>GFX-1260</td> <td>✓</td> </tr> <tr> <td>NAV-900</td> <td>✓</td> </tr> </tbody> </table>	DEVICE	STATUS	GFX-1260	✓	NAV-900	✓	The System resource tile shows the status of all hardware devices in the Precision-IQ environment, including internet connectivity. Tap this tile for additional information on the devices. This information can be useful when troubleshooting a connectivity issue.
DEVICE	STATUS						
GFX-1260	✓						
NAV-900	✓						

NOTE – For configuration details of specific Precision-IQ resources, contact your authorized PTx Trimble Reseller.

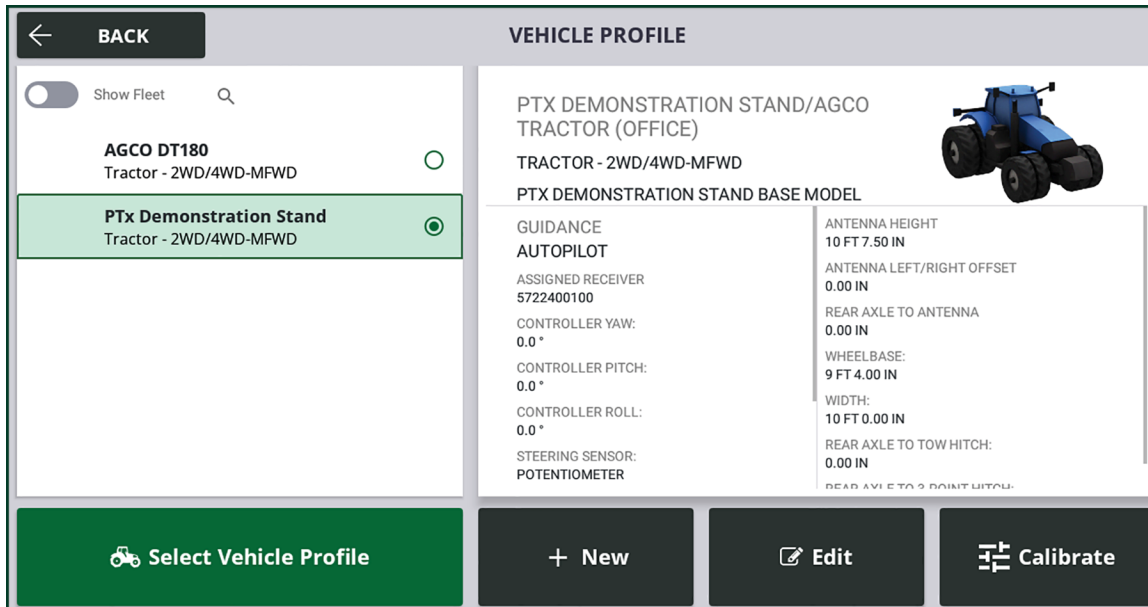
Resource Tile Color Codes

Each resource tile is color coded to show you at-a-glance status of each resource:

Tile Color	Color Definition
 Resource Resource Selection Tap to select	Red indicates the resource has not been selected, that the selected resource contains a configuration error or that a peripheral device, or resource required by the resource is not connected or has a conflict. You cannot enter the Run screen.
 Resource Resource Selection	Yellow indicates that the selection of a resource is required but has not yet been made or that the selected resource requires the selection of another resource.
 Resource Resource Selection Details	No color indicates the resource has been properly selected and configured for entering the Run screen.

Create a Resource Profile

Precision-IQ provides a variety of resources you must select for the task you need to complete. For example, tap the **Vehicle** tile to display the currently selected vehicle profile:



The profile screen shows the available profiles that you can select. Tap a profile to update the screen with a detailed summary of the profile.

To create a new profile, tap the **New** button at the bottom of the screen.

Depending on the resource profile you want to create, Precision-IQ will launch a profile wizard to collect the necessary details for the resource. Some resources - such as the vehicle and implement profiles - require a set of precise measurements. You can always update a profile by tapping the **Edit** button.

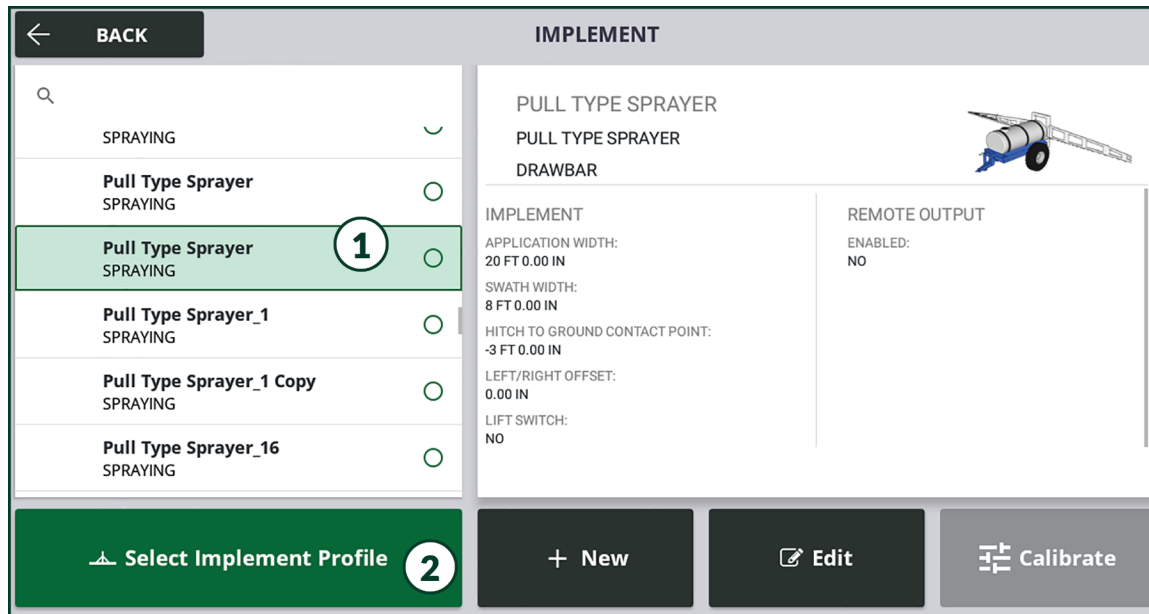
Precision-IQ resources can be created in backend office software, such as FarmENGAGE. See [Data Transfer Overview](#) for information on transferring resources to your display.

NOTE - While certain guidance types may be available for your selected machine, only guidance types with the corresponding guidance license installed on your steering controller will appear.

Select a Resource Profile

Once created, a resource must be *selected* before you can perform any work. In this example, tap the **Implement** tile, then:

1. Select a new profile.
2. Tap the **Select Implement Profile** button.



Copy an Existing Resource Profile

Precision-IQ can manage as many resource profiles as you need. Because many resources can have the same information, you can save time by copying the resource profile. With a duplicate profile, you can then edit the resource details to suit the task you expect to work.

In this example, tap the **Implement** tile, then on the Implement Profile screen:

1. Tap a profile from the list of available implement profiles that you want to copy.
2. Tap the **Save Implement As** button:

Licensed Features

A license that you add for Precision-IQ will be integrated into the resource profile. As you create/modify a resource profile, a licensed feature will be added as a new step for configuration. For example, NextSwath™ is a licensed feature you can include for supported implements. Once applied, the option to enable this feature is now part of the profile configuration:

NOTE – Contact your authorized dealer for details on installing and configuring licensed features.

Operator Login and Permissions

With AutoSync enabled, organization administrators can use PTx FarmENGAGE (online or the mobile app) to manage operators and access permissions for Precision-IQ displays. Permission settings can restrict operators from creating and editing a variety of Precision-IQ resources and Run screen functions. Administrators have a choice on how an operator can access the Precision-IQ display or application:

Cloud-based Operator Permissions. Operator logins and permissions are set by PTx FarmENGAGE (online or the mobile app) for accessing the Precision-IQ display. These operators will have permissions granted for full or limited access to Precision-IQ functionality. *Full-access* users can do anything in the display while *select-only* users can only select what is already on the display. With AutoSync enabled in PTx FarmENGAGE (online or the mobile app), this method is recommended when there are several potential operators or complex farms.

OR

Display-based Operator Login. Only operator accounts can be created and edited within the Precision-IQ application itself (no permissions can be set). This functionality has not been changed from previous versions of Precision-IQ. This method is recommended if you need to control the display login - but not have an active PTx FarmENGAGE account.

To set operator permissions as described in this section, you must:

- Update Precision-IQ to the latest firmware (6.20 or later).
- An active organization must exist in PTx FarmENGAGE.
- AutoSync must be enabled.

PTx FarmENGAGE: Operator Permissions Setup

NOTE – These instructions assume that AutoSync is enabled and that Operators sync is set to **On**.

1. Turn On Operator Display Sign-in (*global setting*). By default, the Operator display sign-in option is set to **OFF** for all operators.

NOTE – The Operator Display Sign-in setting allows equipment operators who have Precision-IQ access to be shared across all connected devices.

To update the setting:

- a. On the PTx FarmENGAGE home screen, click the **Contacts** tile.
- b. On the list of contacts, locate the **Operator display sign-in** setting in the upper-left portion of the screen.
- c. Click **Change**, then select **On** from the pop-up window. Click **Save**.

NOTE – When AutoSync is turned on, operator logins cannot be edited from the Precision-IQ display.

2. Set Operator Precision-IQ Access Permissions for an organization contact. To change this setting:

- a. Edit an existing operator contact.

NOTE – You can also add a new contact. A new contact will need to enable the Equipment Operator option.

- b. On the Contact Properties screen, click the **Equipment Operator** tab.

c. Click the **PTx Trimble Display Permission** box and set the following options:

- **Sign-in ID:** This value is auto-generated based on the contact's first and last name, which must be unique to the organization.
- **4 Digit PIN:** Enter a four-digit operator PIN to be used to access the Precision-IQ display.
- **Operator display sign-in:** This should be set to **ON**. This setting is global for the organization and applies to all operators.
- **Precision-IQ Access:** Click the drop-down menu to change the access settings:
 1. **Level 1:** Select Only, No Settings, Limited Run Screen
 2. **Level 2:** Select Only, No Settings, Full Run Screen
 3. **Level 3:** No Delete or Add, Limited Settings
 4. **Level 4:** No Delete or Edit, Limited Settings
 5. **Level 5:** No Delete
 6. **Level 6:** Full Access

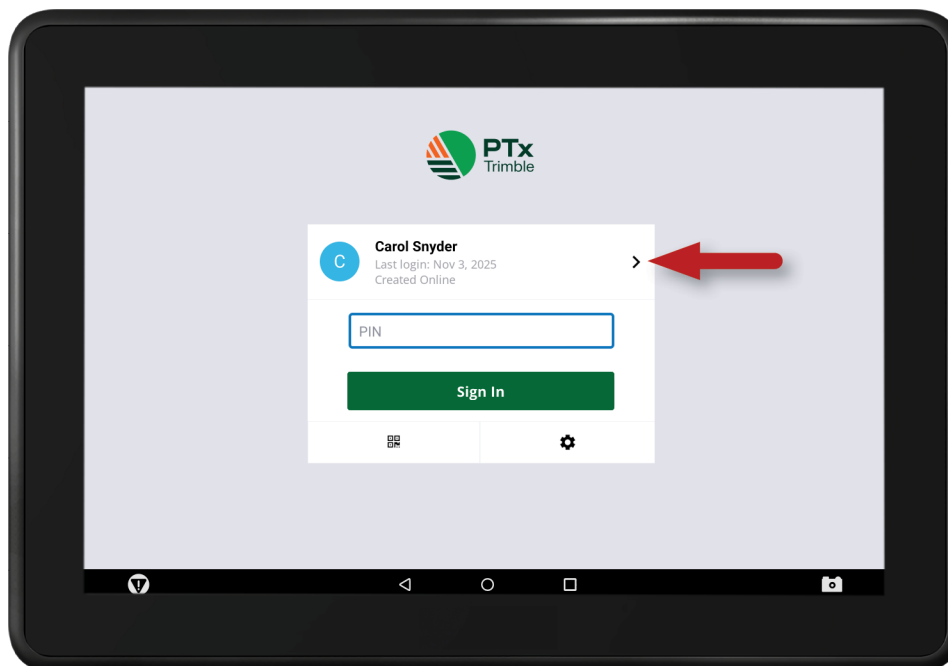
By default, a new operator profile has the Precision-IQ Access option set to **Full Access**.

3. Once you have completed the operator profile, click **Save**. The list of contacts will update to show the Precision-IQ Access level.

Login to a Precision-IQ Display

After the Operator display sign-in option has been set (using PTx FarmENGAGE), the login interface to the display is updated:

1. On the login screen, tap the > icon:



2. Select the operator from the list.

NOTE – This operator list only includes operators that have the **PTx Trimble Display Permissions** option enabled within PTx FarmENGAGE.

3. Enter the operator PIN and tap **Sign in**.

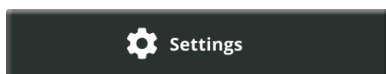
System Settings

- [Android Settings](#)
- [Precision-IQ Settings](#)
- [Changing Display Wallpaper](#)

A variety of settings are available for Precision-IQ to be customized for your own unique environment. Precision-IQ also accommodates the Android settings you select.

For Precision-IQ Settings

Tap the **Settings** button on the Precision-IQ *Home* screen:



For Android Settings

Tap the **Settings** icon on the *Launcher* screen:



Android Settings

Android settings affect a variety of features and functions for all applications on the display. On the Launcher screen, tap the **Settings** icon:

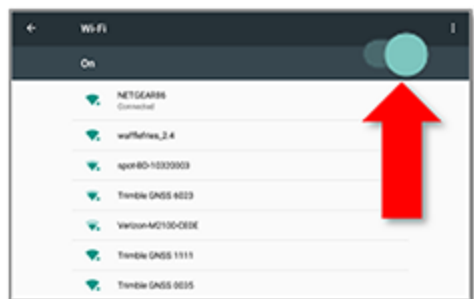


On the Android Settings screen, Precision-IQ references the settings for wi-fi, display, language, etc.:

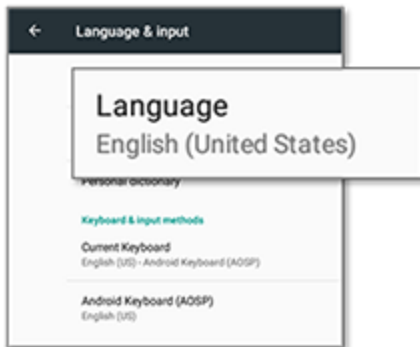


Tap a setting for options to enable, disable, and choose a setting option:

Wi-Fi: Tap the slider to enable and select from available wi-fi networks:



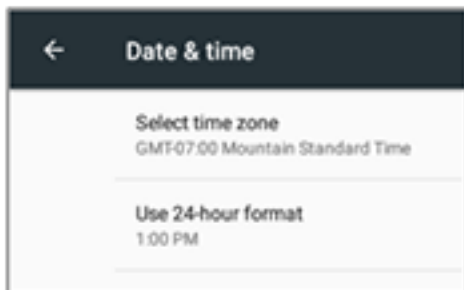
Language: Tap to select a language. Precision-IQ supports most languages:



Display: Tap to adjust the brightness level and to enable adaptive brightness:

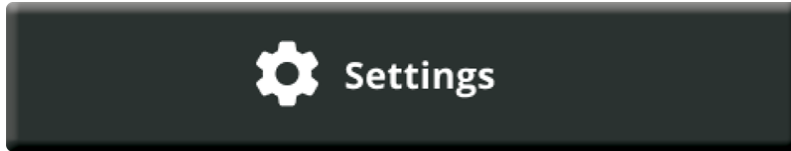


Date/Time: Tap to select your time zone and to display the time as 12-hour or 24-hour:



Precision-IQ Settings

Many of the features and functions of Precision-IQ have default settings that you can change, as needed. On the Home screen, tap the **Settings** button at the bottom of the screen:

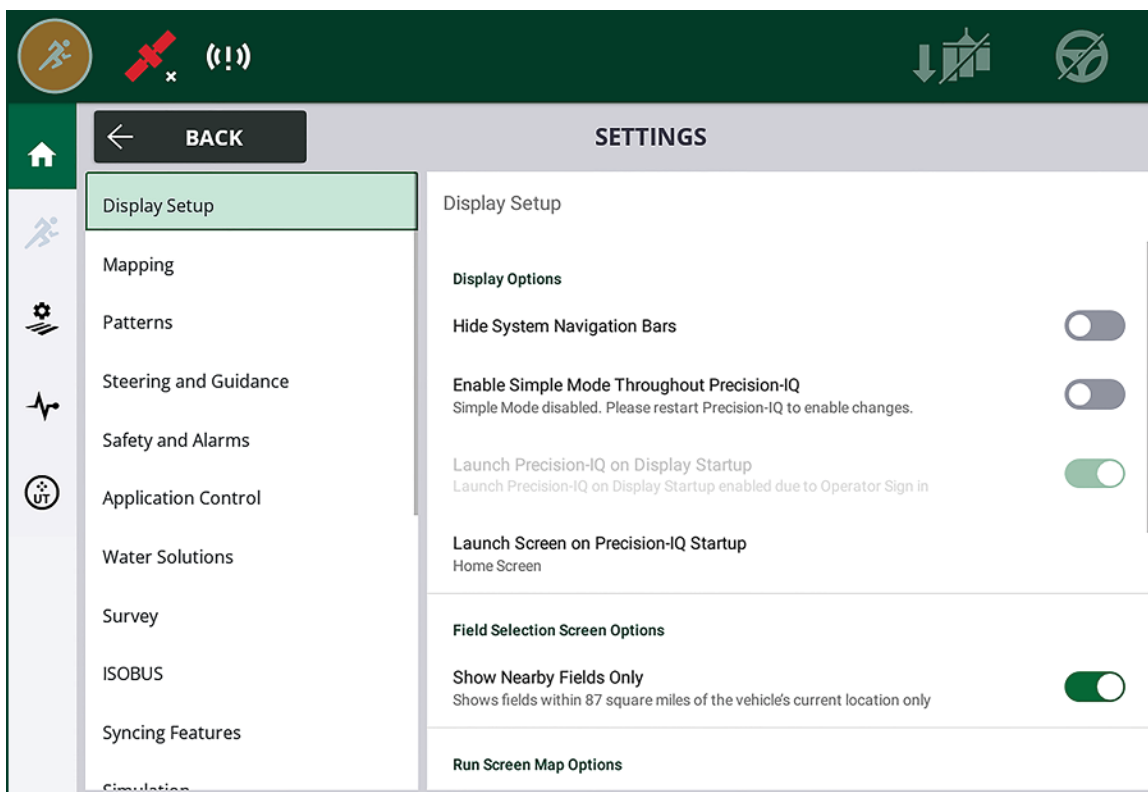


On the Settings screen, tap the setting you want to update. The screen will refresh to display the available setting options. Tap each option to update, as needed. When you are satisfied with your selection, tap **Back** to save the settings and to return to the Precision-IQ Home screen.

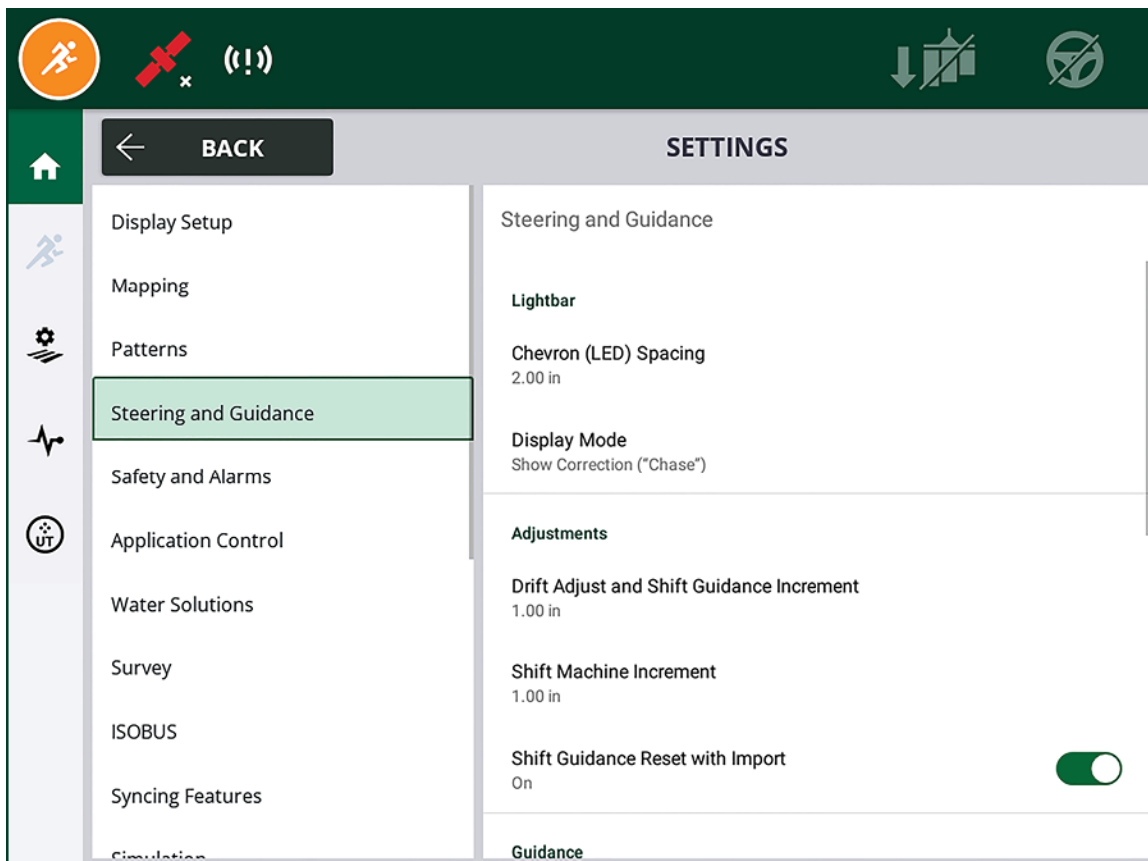
Precision-IQ Setting Examples

The following settings show examples of the type of options you can change:

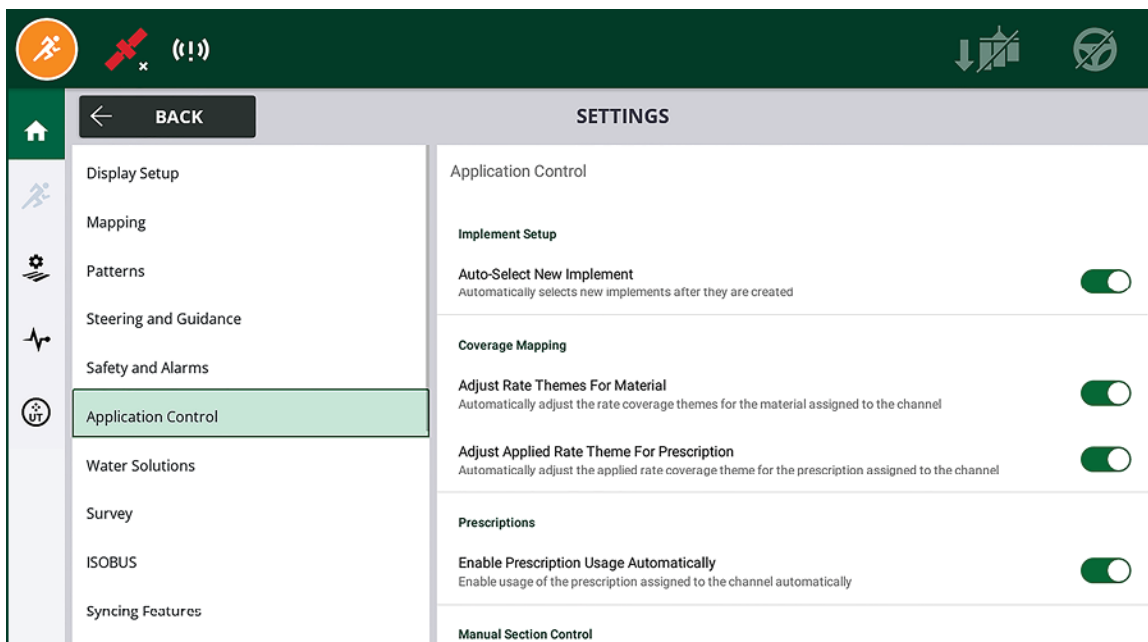
Display Setup:



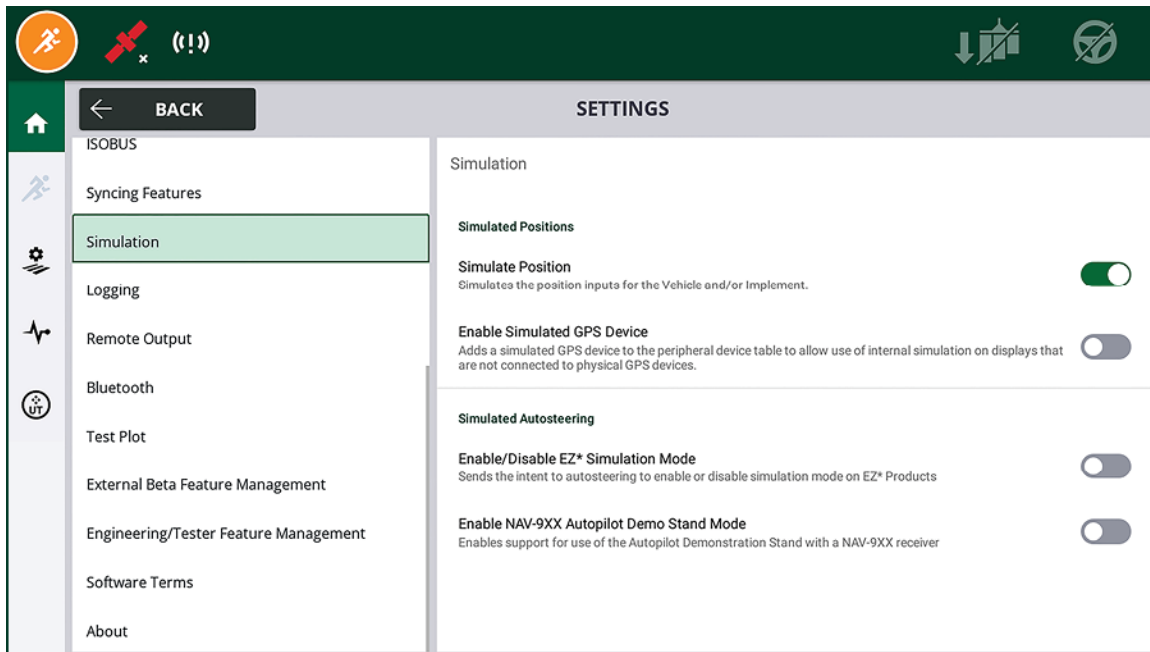
Steering and Guidance:



Application Control:



Some Precision-IQ features can be simulated for demonstration, testing, or training. Tap the appropriate slider to enable and disable a simulation feature:



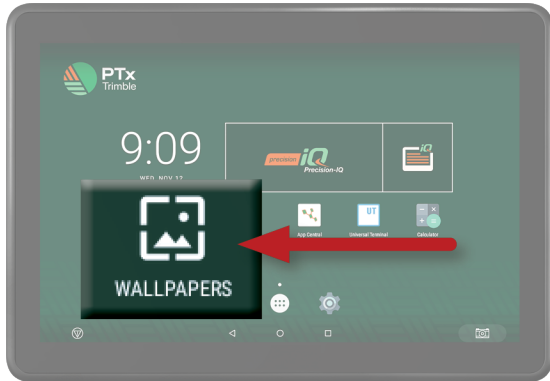
Changing Display Wallpaper

Wallpaper can be used to share important information with your customers, such as your support contact details. This wallpaper function is an additional tool to improve your customer's experience with your dealership. Follow the steps below to change the display's background wallpaper:

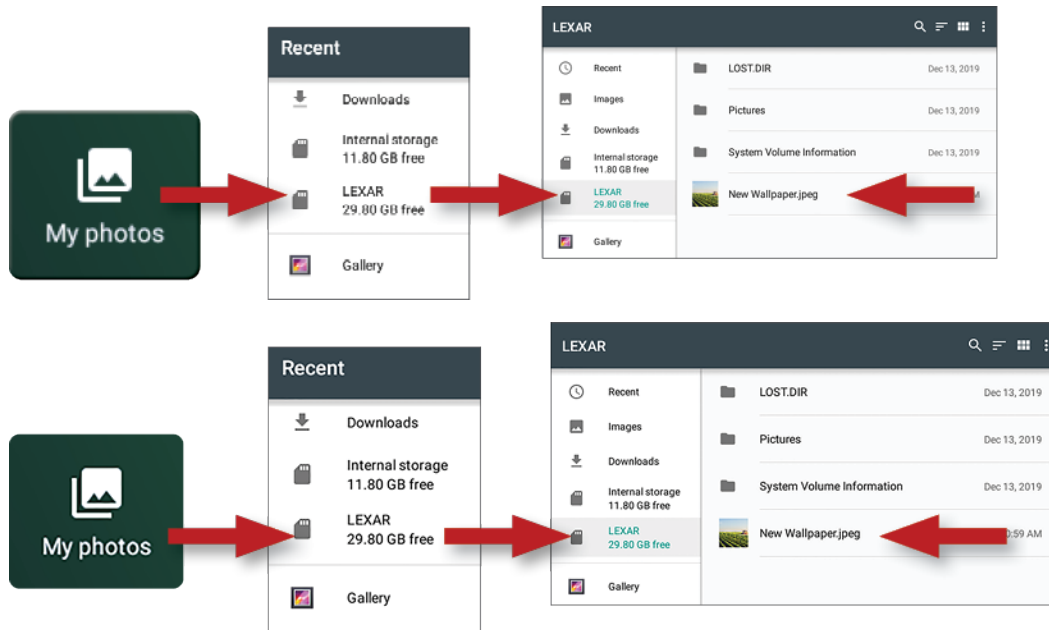
1. Upload an image (.jpg or .png) to USB drive.
 - For 10-inch and 12-inch displays, a 1280 x 800 pixel size is recommended.
 - For 7-inch displays, a 1024 x 600 pixel size is recommended.

NOTE – The image size will automatically adjust if not provided in the display resolution.

2. Power on the display and insert the USB drive into one of the USB ports. The *Launcher* screen appears with the default wallpaper.
3. Press and long hold in a blank area on the *Launcher* screen and tap **Wallpapers**:



4. To select a new image for the wallpaper:
 - a. Tap **My photos**.
 - b. Tap the USB drive (for example, LEXAR).
 - c. Tap the image you want to appear.



5. The *Launcher* screen will reload with a preview of the image. Tap the image icon, then tap **Set wallpaper** to confirm:



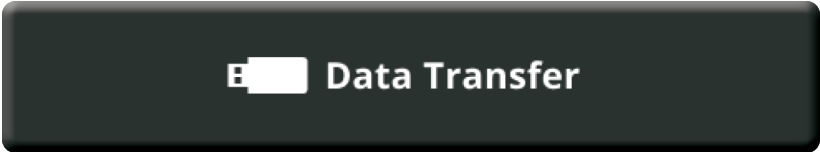
6. The *Launcher* screen refreshes with the new wallpaper:



Data Transfer

- [Data Transfer Overview](#)
- [AutoSync Overview](#)
- [Setup and Configuration for Wireless Data Transfer](#)
- [Using Data Transfer Wirelessly](#)
- [Using Data Transfer Manually](#)
- [Delete a Precision-IQ Resource](#)

Precision-IQ provides support for the transfer of data between a display in the field and the PTx FarmENGAGE you use in your back office or you can manually transfer data using a USB drive. From the Precision-IQ Home screen, tap the **Data Transfer** button to begin:

A dark gray rectangular button with rounded corners. On the left side, there is a small white icon of a document with a checkmark. To the right of the icon, the text "Data Transfer" is written in a white, sans-serif font.

 Data Transfer

Data Transfer Overview

Precision-IQ provides support for the transfer of data between a display in the field and PTx FarmENGAGE you use in your back office. The collected data from your display can be transferred:

- **Wirelessly** using the AutoSync™ feature through a cellular or Wi-Fi network.

It is recommended to use the wireless option because data transfers can be configured to be done automatically and seamlessly.

NOTE – All GFX displays include Wi-Fi functionality built-in.

When a wireless communication is established, all jobs that are completed in the field (using required hardware) are sent to the web server for PTx FarmENGAGE. In addition, the display looks for updated information to download from your PTx FarmENGAGE storage area. If you lose communication with the web server, then your completed jobs are sent once communication is reestablished.

- **Manually** using a USB device. All GFX displays include at least one USB port for manual data transfer.

Use the manual option when no network connectivity is available or connection is poor.

AutoSync Overview

NOTE – AutoSync is wireless data transfer for displays with Precision-IQ firmware version 6.xx and higher.

AutoSync automatically syncs farm data across PTx Trimble displays utilizing Precision-IQ software, eliminating the need to manually share data via USB. AutoSync significantly reduces duplication, data re-entry, and human error because field, resource, and operator information is automatically synced by the minute across the entire farm operation.

The AutoSync feature is included with Farmer Core and Farmer Pro software subscriptions. Display Connections licenses are required for each connected display.

AutoSync exchanges guidance lines, field boundaries, client/farm/field names, landmarks, vehicles, materials, implements and operators. When the task is completed, task data will transfer from the displays to the online platform. Customers with appropriate permissions can create, edit, and delete from any of the connected devices, automatically updating the other devices within a few minutes:

Data Type	Create	Edit	Delete
Guidance Lines	✓	✓	✓
Client/Farm/Field Names	✓	✓	✓
Landmarks and Boundaries	✓	✓	✓
Operators	✓	✓	✓
Vehicles	✓	✓	✓
Materials	✓	✓	✓
Implements	✓	✓	✓

Using the wireless capabilities of AutoSync, you can:

- **Save Time** — Share farm data across all supported devices used in the operation, eliminating dual entry of data.
- **Improve Efficiency** — Ensure definition and use of guidance lines is consistent for all operators through automatic syncing.
- **Reduce Human Error** — Improve integrity of records by eliminating errors caused by multiple entry of guidance lines, field names, field boundaries, resources, and landmarks.
- **Leverage Two-Way Data Transfer** — Powered by AutoSync, PTx FarmENGAGE solutions enable automatic two-way data transfer with supported displays.
- **Satisfy Regulatory and Contractual Obligations** — AutoSync enables easy creation of application coverage maps (proof of placement reports).

Setup and Configuration for Wireless Data Transfer

To establish an effective wireless data transfer, Precision-IQ must be properly set up and configured to collect the appropriate data to be transferred. This section describes how to set up and configure your display for wireless data transfer.

FarmStream ties into the vehicle CAN and enables productivity data to be transferred, such as when a machine is running or stopped, to PTx FarmENGAGE and includes real-time vehicle location and status information.

Likewise, PTx FarmENGAGE should be configured to receive a data transfer from Precision-IQ. Visit [FarmENGAGE](#) for more information.

Configuring FarmStream Settings

NOTE – The Productivity tab is only visible if the **Enable Operators** feature is turned on. This feature is accessed by tapping **Settings** on the Home screen and selecting **Operators and Passwords**.

To use the Utilization app and FarmStream Fleet reporting on the display with Precision-IQ field application, you must first set up the thresholds in the Precision-IQ application.

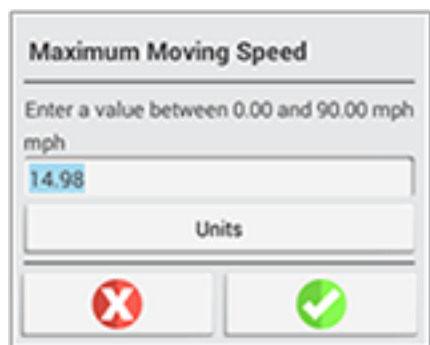
Setting Vehicle and Implement Thresholds for FarmStream Reporting

After opening Precision-IQ, you can set up the Implement and Vehicle settings for the Utilization app, so the utilization data shows up as you want it to in FarmStream Fleet.

1. On the Precision-IQ Home screen, tap the **Vehicle** tile to set the vehicle settings. Then tap the **Productivity** tab.

In the Productivity tab, set a threshold for the vehicle maximum moving speed for the Utilization app. Any time that the vehicle travels over this maximum moving speed, it is reported as speeding. If you turn the Maximum Moving Speed off this means that the “speeding” state will not be used for the vehicle in FarmStream Fleet.

2. To set the maximum moving speed option, tap **Maximum Moving Speed**. Choose a maximum moving speed for the vehicle and then tap the green check button. There is also an option to display the speed in US or Metric units. The range of the allowed moving speed that can be selected is noted in the dialog:



3. Tap the **Summary** tab and save your changes.
4. Return to the Precision-IQ Home screen and tap the **Implement** tile to set the Implement thresholds for the Utilization application. Then tap the **Productivity** tab.

If an operator exceeds the functional speed for an implement, possible damage can occur to the implement, the vehicle, the crop or the field. The display can send information about the implement status to FarmStream Fleet in the PTx FarmENGAGE solution.

NOTE – The Productivity tab is only visible if the Enable Operators feature is turned on. This feature is accessed by tapping Settings on the Home screen and selecting Operators and Passwords.

These settings determine what information is sent about the implement from the Utilization application to FarmStream Fleet.

5. To set the Maximum Transport speed, tap **Maximum Transport Speed** and enter a value in the range indicated. Select the Units, if required. Tap the green check to save.

6. Tap **Maximum Operating Speed** and **Stopped To Delayed Timeout** to set the values and/or select units for these two parameters. Tap the green check to save.
7. Tap the **Summary** tab and save your changes.

The table below describes the different settings options:

Setting	Description
Maximum Transport Speed	The functional speed limit for transporting the implement. The options are On or Off and a numerical value for the speed. <i>Maximum Transport Speed</i> is used to determine when a vehicle enters the “speeding” state. The minimum of Maximum Transport and Maximum Moving speed will be used in this determination; Maximum moving speed is configured under the vehicle setup (Productivity tab). If Maximum Transport Speed is turned off, then the Maximum Moving Speed for the vehicle is used to determine the “speeding” threshold (if Maximum Moving Speed is turned on).
Maximum Operating Speed	The functional speed limit for the implement when coverage logging is on. The options are On or Off and a numerical value for the speed. <i>Maximum Operating Speed</i> is used to determine when the vehicle enters a “rushing” state.
Stopped to Delayed Timeout	The length of time the vehicle can be paused before the vehicle is considered delayed. The options are On or Off. <i>Stopped To Delayed Timeout</i> is the amount of time that will pass after the vehicle has entered a “stopped” state before it’s considered to be in a “delayed” state (and the operator may be prompted to select a reason for the delay).

Setting up an Operator for FarmStream Reporting

NOTE – The **Enable Operators** feature must be enabled in order for FarmStream to run. This feature is accessed by tapping **Settings** on the Home screen and selecting **Operators and Passwords** or by enabling operators from FarmENGAGE using the enable option at **People ⇒ Contacts ⇒ Manage ⇒ Operator Display Sign In**.

Signing in as an operator is not required for Utilization or FarmStream to run, but if you want to see operator information in the application, you must sign in.

To set up operator information, turn on your display. You should see the Operator app. Tap the **Operator** app icon to launch it.

Operators can be created in the **Fleet** or **Farm ⇒ Contacts** page of the PTx FarmENGAGE. All operators in the display's organization are automatically sent to the display when it has connectivity. If operators in the Fleet page are changed, any changes will be visible in the Operator app after the app has been killed and restarted, or when the display has rebooted.

Operators can also be created locally on the display, but they will not be sent to the PTx FarmENGAGE to be seen on the Fleet page unless AutoSync is turned on. These local operators will not show in the menu in the Operator app.

1. Login to the Operator app in order to track who is using the vehicle, for reporting in the Utilization app and FarmStream.
2. Enter or scan your operator PIN to login.

Once logged in, the operator information will be recorded along with any utilization data.

Enabling an Operator for FarmStream Reporting

NOTE – Enabling operators is required for FarmStream operation. For more details on how to set up the software and display for FarmStream, refer to the FarmStream guide here:

<http://agriculture.trimble.com/software/farmstream-setup/>

If you want to see operator information in your PTx FarmENGAGE application as part of a data transfer, then there must be an operator enabled to use Precision-IQ, with the Enable Operators setting active.

Once logged in, the operator information will be recorded along with any utilization data.

Using Data Transfer Wirelessly

Once Precision-IQ is configured, the FarmStream utilization data collected is sent to PTx FarmENGAGE as often as every few seconds.

Transferring Data Wirelessly to the Display Using FarmENGAGE

NOTE – For displays using Precision-IQ firmware version below 6.xx.

Follow the steps below to upload data to the display using FarmENGAGE:

1. Go to the **Online** tab and log on with your PTx FarmENGAGE username and password. If applicable, select the organization you are working with.
2. Click **Send Resources**.
Use the *Send Resources* button to specify data you want uploaded to PTx FarmENGAGE server so it can be downloaded to your display.
3. In the **Farms/Fields** tab, select the **Clients/Farms/Fields** to upload.
4. In the **Inputs** tab, select the **Machines/People/Supplies** to upload.
5. Select **Job Types** to be sent.
6. Select the **Options** tab to send field boundaries and/or guidance lines.
7. Click **OK**.
8. Select **PTx Trimble Display(s)** to upload resources to and click **OK**.
9. Selected resources are added to Outbox for mobile devices that you chose.

As soon as software communicates with PTx FarmENGAGE server, data is uploaded and moved to the device *Inbox* where it stays until the display downloads the resources.

Using Data Transfer Manually

Precision-IQ supports data transfer using a USB drive (also known as a *thumb drive* or *flash drive*). To manually transfer data, you must insert a USB drive into one of the USB ports on the display, and then select the files you want to transfer.

Follow the steps below to transfer data manually:

1. Insert a USB drive into one of the USB ports on the display.
2. From the Precision-IQ Home screen, tap the **Data Transfer** button to display the Data Transfer screen.
3. Select a data transfer action:
 - [USB VDB Transfer](#)
 - [Data Transfer Between Precision-IQ Displays](#)
 - [Export Precision-IQ Resources to a USB Drive](#)
 - [Import Resources to a Precision-IQ Display](#)
4. Once the data transfer is complete, you can remove the USB drive from the display.

See also:

[Supported Data Transfer Functions](#)

[Delete a Precision-IQ Resource](#)

USB VDB Transfer

When you transfer data, saved vehicles do not include the vehicle configuration file (.vdb) for Autopilot™. To transfer this configuration data:

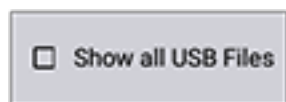
1. Connect a laptop that has the Autopilot Toolbox software to the serial port of the NavController that contains the vehicle config file you want.
2. Using Autopilot Toolbox, save the config (.cfg) file to the laptop.
3. Transfer the saved config file from the laptop to a USB drive in the folder **AgData/Profiles**.
4. Make sure you have the Precision-IQ application open.
5. Insert the USB drive containing the config file in the USB socket of the display.
6. Insert the USB drive containing the config file in the micro USB adapter cable.

Data Transfer Between Precision-IQ Displays

To copy resources from your Precision-IQ display to a USB drive for use in another Precision-IQ display:

1. Insert a USB drive into the display.
2. On the Home screen, tap **Data Transfer** to open the Data Transfer screen.

On the Data Transfer screen, make sure that the **Show All USB Files** option is **deselected**:



3. Select the folders or resources you want to copy and tap the **Copy** button.

NOTE – Some AgGPS resources can be read by AgData. If you have an AgGPS file with recognizable resources (such as a *Field*) on the root level of your USB drive, then it will appear along with the AgData resource and can be copied directly to the display.

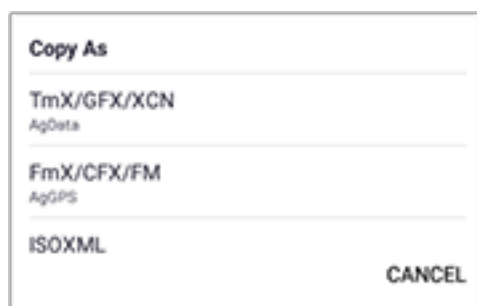
Export Precision-IQ Resources to a USB Drive

To convert and copy resources from your Precision-IQ display to a USB drive for use in another display or to FarmENGAGE:

1. On the Data Transfer screen, make sure that the **Show All USB Files** option is **selected**.
2. On your USB drive pane, navigate to the location where you want to copy the converted files to.

NOTE – Use caution for selecting a location. Some USB drives can contain multiple of files and folders. Be sure you know where you want the converted Precision-IQ to be located.

3. On the Internal (display) pane, navigate to the folders and resources you want to convert and select them. Tap the **Copy** button. In the Copy As pop-up window, select a data type (AgData, AgGPS, ISOXML):



NOTE – Not all Precision-IQ resources can be converted. A warning message will display for those resources that cannot be converted.

4. The resource will be converted to the appropriate format and copied to the USB drive. If you are transferring resources **from** Precision-IQ **to** a USB drive, then the converted resources will appear in an **Output_AgGPS**, **Output_AgData**, or **Output_ISOXML** folder, depending on the file type you want transferred. You should be able to import these resources into your FmX+ or FarmENGAGE applications.

CAUTION – If you are exporting data for use in an AgGPS-supported display, you **must** first move the converted AgGPS folder out of the Output_AgGPS folder to the root level of the USB drive, so that it can be recognized by the display.

Import Resources to a Precision-IQ Display

Precision-IQ can recognize both AgData and AgGPS data types on a USB drive. To import these resources from a USB drive to your Precision-IQ display:

1. On the Data Transfer screen, select the folders or resources you want to copy.

NOTE – The "Show All Files" option does not need to be selected to import AgGPS data. This data appears under the profile selection.

2. Tap **Copy**.
3. Tap **OK** on the confirmation pop-up window.

Supported Data Transfer Functions

Not all resource types can be manually transferred to/from Precision-IQ into other formats (AgGPS, ISOXML). The following table shows the functions and formats supported by the Precision-IQ's data transfer service.

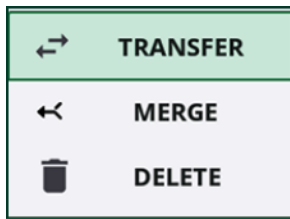
	From Precision-IQ to:		
Profile	USB (AgData)	USB (AgGPS)	ISOXML
Vehicles	✓		
Implements	✓		
Materials	✓		
Fields	✓	✓	✓
Guidance Lines	✓	✓	✓
Tasks	✓		
Users	✓		
Diagnostics	✓		
Screenshots	✓		
Prescriptions	✓		
Point/Line/Area	✓	✓	✓

Delete a Precision-IQ Resource

NOTE – Only Precision-IQ folders and resources (AgData) can be deleted from your display or USB drive.

You can use the Data Transfer screen to delete configuration files from Precision-IQ or your USB drive.

1. On the Data Transfer screen, tap the **Delete** action in the upper-left corner of the screen:



NOTE – The Transfer action is selected by default. When you tap Delete, the Copy button will automatically update to be Delete.

2. Drill down or expand the folders that contain the resources you want to delete and select them. (You can select resources from the Precision-IQ display, USB drive, but not both at the same time.)
3. Tap the **Delete** button at the bottom of the screen.

Aux-N Passthrough

- [Aux-N Available Functions](#)
- [Aux-N Function Assignment](#)
- [Setup with Multiple Precision-IQ Displays](#)

The Aux-N passthrough feature provides display functions as ISOBUS Auxiliary Functions which allows them to be controlled using an ISOBUS Aux-N compatible input device.

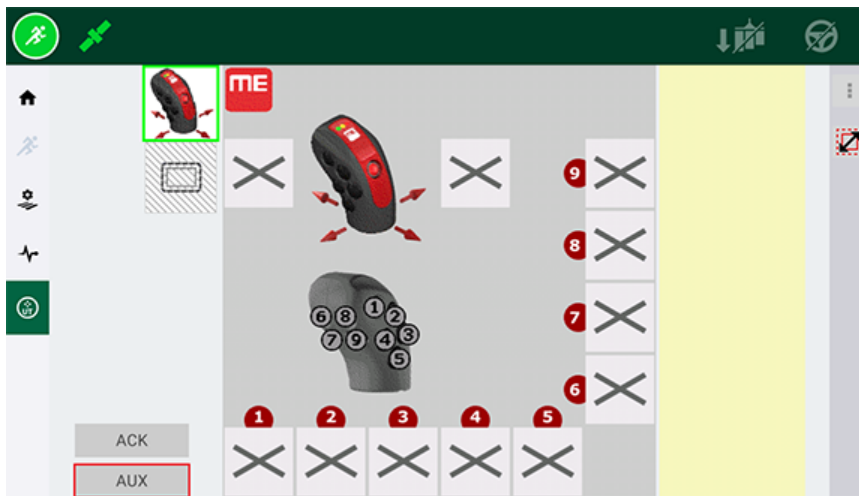
Aux-N Available Functions

Function	Description
	Show Run Screen Navigates to the “Run” screen.
	Show UT Navigates to the Universal Terminal (UT) screen.
	Toggle Section Control Mode Toggles between the “automatic” and “manual” mode. Section control must be enabled beforehand.
	Toggle Steering Engage Engages or disengages the automatic steering.
	Remark Center Shifts the swath line to the current machine position.
	Nudge Left Nudges guidance to the left.
	Nudge Right Nudges guidance to the right.

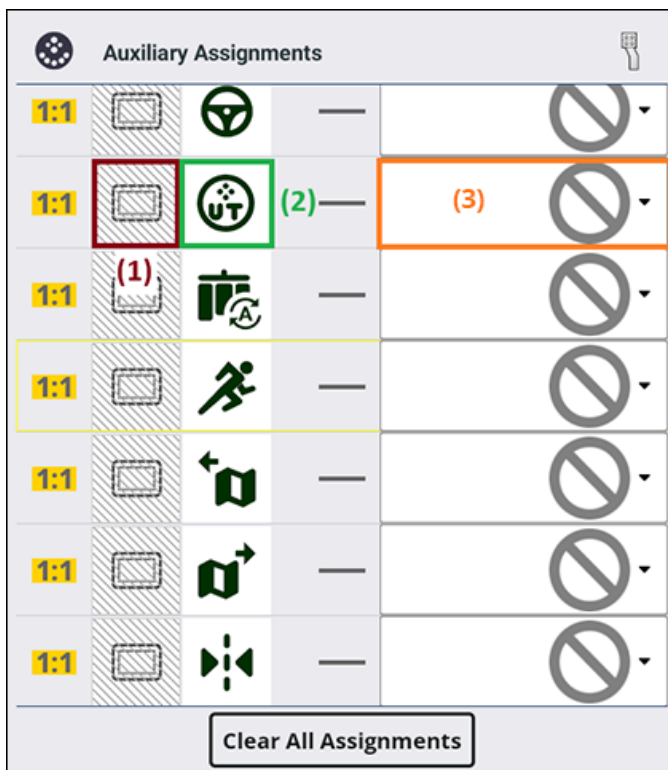
Aux-N Function Assignment

The display functions can be assigned to an AUX input device using a Universal Terminal (UT). If Precision-IQ serves as the primary Virtual-Terminal (VT) on the ISOBUS the functions can be assigned in the UT Screen of Precision-IQ itself. If another ISOBUS Terminal is used as the primary instance, then the Precision-IQ functions need to be assigned on that Terminal.

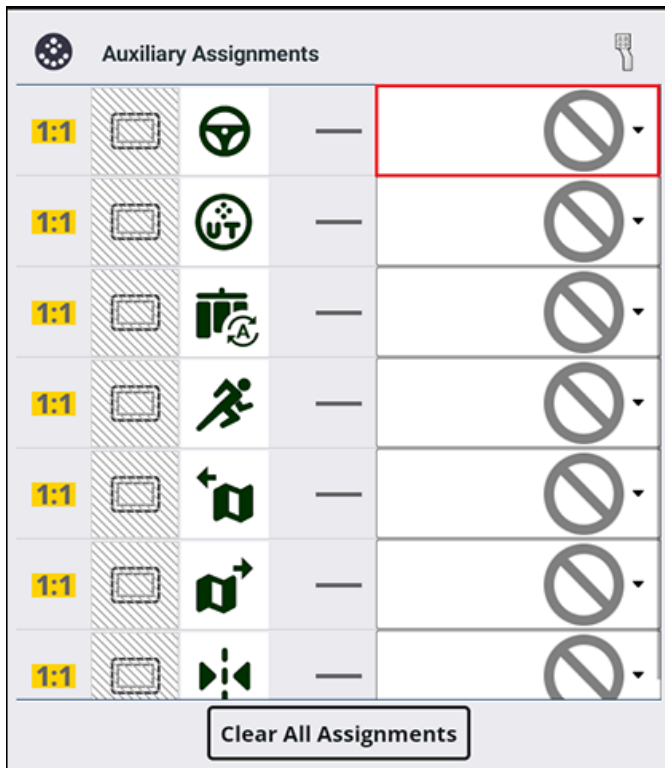
On the UT screen of Precision-IQ , tap the AUX button to get to the assignment view.



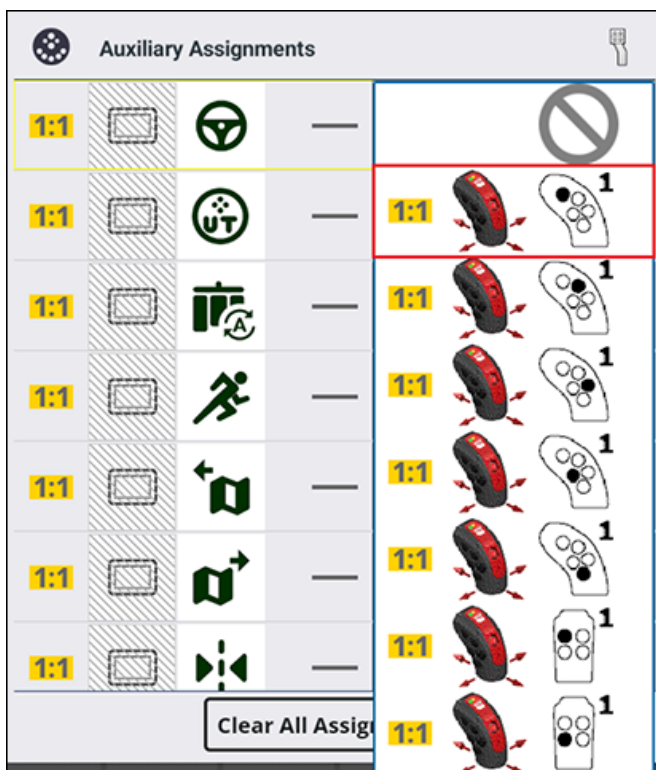
If no AUX input device is connected, then no assignments can be made. If an AUX input device is connected, it should look like this:

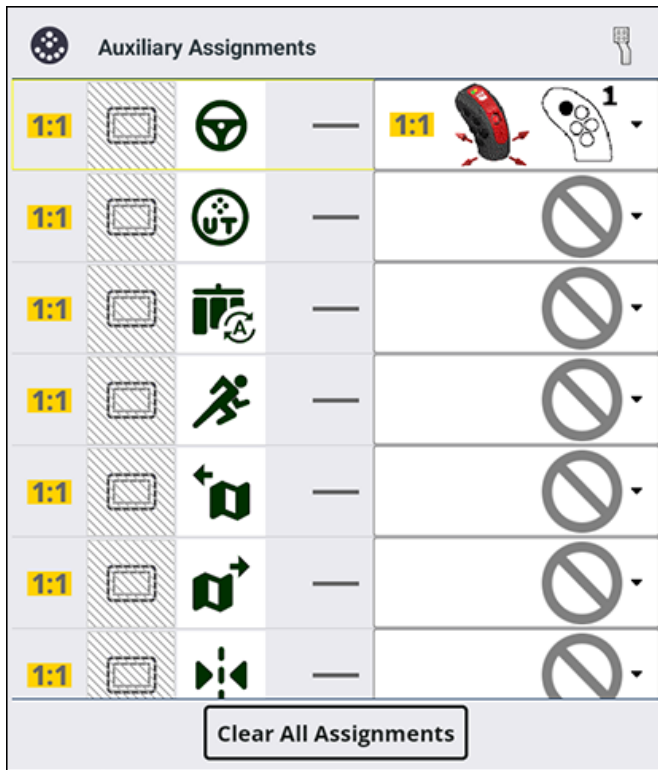


The view displays the device icon (1) that represents the device containing the function. Next to it, you will see the icon for the function to be assigned (2). On the right, the assigned AUX input (3) is shown. By default, no input is assigned, so this field remains empty. By clicking on the assigned input field, the assigned input can be changed.



The available inputs are listed and the learn mode is active. To assign an input to a function either tap the preferred input in the list or push the button on the input device.





When the assignment is complete. The assignment view can be closed by tapping somewhere in the background. After closing the function can be triggered by pressing the input button that was assigned.

Setup with Multiple Precision-IQ Displays

In case multiple PIQs are on the ISOBUS and both provide their display functions the icons change to be able to differentiate between them.

Icon	Description
	Local Precision-IQ (Default Icon)
	Remote Precision-IQ

The instance of Precision-IQ providing display functions and running the primary VT instance is using the default icon. To be able to identify remote instances of Precision-IQ, the last 5 digits of the serial number are displayed on the icon as well.


Auxiliary Assignments


1:1			—	1:1			▼
1:1			—	1:1			1 ▼
1:1			—	1:1			1 ▼
1:1			—				▼
1:1	 000042		—	1:1			1 ▼
1:1	 000042		—	1:1			1 ▼
1:1	 000042		—	1:1			1 ▼

Clear All Assignments

Auxiliary Attachments

- External Camera

GFX displays with the appropriate connections support auxiliary attachments - such as external cameras. These devices are then available through Precision-IQ.

External Camera

GFX displays with the appropriate connector support external cameras (both PAL and NTSC formats).

- NTSC- National Television Standards Committee, used in North America.
- PAL - Phase Alternating Line, standard analog video used in Europe and Asia.



Connector	Function
1	Auxiliary Connectors (for radar, implement switches, FarmStream, cameras, etc.). These connectors may be red, black, or blue, depending on the GFX/XCN model:  Note: The 7-inch display only has one auxiliary connector. See the table below for the cable needed for your model.
2	Power In
3	Connects to GNSS receiver

Cables

GFX-350/750 Displays	GFX-1060/1260 Displays
 114078 Cable Assy, GFX-350/750/XCN-750/1050, Expansion Port Multi, Dig I/O, RS232, Analog AgCam, 2.5m	 121907 Cable Assy, GFX/XCN, Base Cable, Expansion Port II , CAN, Dig I/O, Analog AgCam, 2.5m

GFX displays support a variety of third-party cameras - such as the Dakota Micro AgCam pictured below - with the appropriate cable:



