

Precision-IQ Overview

AGRICULTURE

February 2019

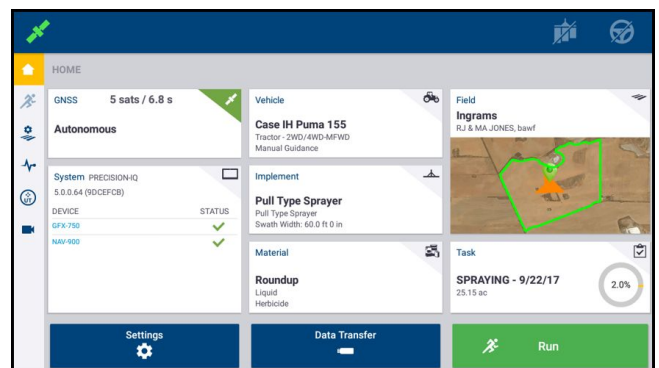
TRIMBLE RESELLER CONFIDENTIAL

Precision-IQ Overview

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



By default, the Precision-IQ Home screen displays:



This document provides an overview of the Precision-IQ Home screen.

Precision-IQ Overview Contents		
Activity Bar	Settings, Data Transfer, and Run/Stop Buttons	Compatibility with Automated Guidance and Steering
Productivity Tiles and Tile Status	Set Preferences for Precision-IQ and the Display	

<http://agpartners.trimble.com>

www.trimble.com

© 2019, Trimble Inc. All rights reserved. Trimble, the Globe & Triangle logo, EZ-Steer, EZ-Pilot, and Farm Works Software are trademarks of Trimble Trimble Inc., registered in the United States and in other countries. Autopilot, EZ-Pilot Pro, and Precision-IQ are trademarks of Trimble Inc. All other trademarks are the property of their respective owners.

Activity Bar



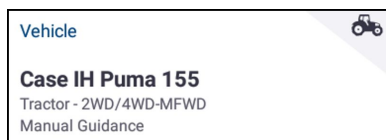
The activity bar appears on the left side of the Home screen:

Icons with the yellow background show your current screen location. Tap an icon to enter the:

- Run screen (you can only enter this screen after all equipment is correctly set up, selected, and the Run screen button has been tapped)
- Field Manager
- Diagnostics
- Universal Terminal
- External Camera

Productivity Tiles and Tile Status

This region shows the connectivity, equipment, field, and task details. Each tile includes information specific to its area. For example:



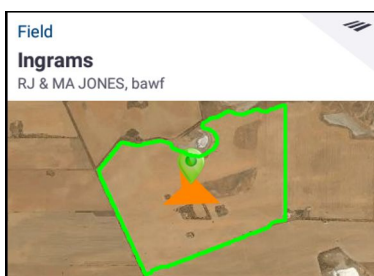
The example vehicle tile shows the make and model as well as the guidance method selected.

The productivity tiles shown include:

- **GNSS:** This tile shows the number of satellites connected and the type of correction service selected. For more details about this tile, see [GNSS Overview](#).
- **Vehicle:** This tile shows the make and model of the vehicle along with the guidance functionality selected. For more details about this tile, see [Managing Vehicles in Precision-IQ](#).
- **Implement:** The Implement tile shows the type of implement selected and any appropriate measurements associated with it. Because there are a variety of implements supported by Precision-IQ, this tile will update to show the information relevant to the selected implement. For more details about this tile, see Implements.
- **Material:** The material tile shows the name and type of material selected. For more details about this tile, see [Managing Materials in Precision-IQ](#).

Note: The availability of material types available depend on the implement selected.

- **Field:** In addition to the field, farm, and client name details, this tile includes a thumbnail image of the selected field when a modem with internet connectivity is connected:



Note: If a modem with internet connectivity is not connected, then this tile will be blank.

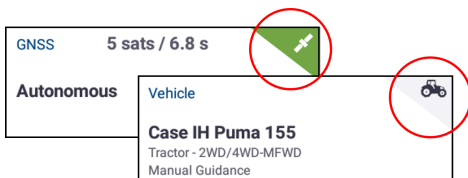
For more details about this tile, see [Managing Fields in Precision-IQ](#).

- **Task:** Once you have selected a material and a field, you can select the appropriate task for the work to be done in the field and then tap the **Run** button to enter the Run screen.
- **System:** The system tile provides information about the Precision-IQ system, including the current firmware version and devices connected and managed through the system. See also:
 - [GFX-750/XCN-1050 Display Data Sheet](#)
 - [TMX-2050/XCN-2050 Display Data Sheet](#)
 - [NAV-900 Guidance Controller Data Sheet](#)
 - [AG-820 Integrated Radio Data Sheet](#)

Productivity Tile Status

Each productivity tile provides a color-coded, at-a-glance status in the upper-right corner of the tile:

- **Grey/Green:** If the color is gray (or green for GNSS), then the all details have been correctly set and the item selected. With this color, you can tap Run to enter the Run screen to begin your task.



- **Red:** This color indicates that there is a problem that must be corrected before you can enter the Run screen:



The details of the tile will show the problem and provide an action for you to complete. For example, in the sample image above, the problem is that "no implement is selected" and the action is to "tap to select."

- **Yellow** (Material and GNSS tiles only): The yellow status indicates:
 - GNSS: The GNSS connection is converging.
 - Material: A generic or default material is selected. You can still enter the Run screen, but Precision-IQ may not record the applied material.



Settings, Data Transfer, and Run/Stop Buttons

These buttons appear below the productivity tiles:

- **Settings:** Tap this button to set up preferences for using Precision-IQ. See [Set Preferences for Precision-IQ and the Display](#).
- **Data Transfer:** Tap this button to manually transfer data files from the display to a USB drive. Also, you can manually download and install updated software and licenses. See also:
 - [Using Precision-IQ's Data Transfer Service](#).
 - [App Central: Installing Licenses from a USB Drive](#).
- **Run:** Tap this button to enter the Run screen:



You can only enter the Run screen after you have successfully set up and selected a vehicle, implement, material, field, and task.

While you are in a Run operation, this button will update to show Stop:




Tap this button to stop the run. All data recorded by Precision-IQ can be transferred to your back office.

Set Preferences for Precision-IQ and the Display

To interact with the Precision-IQ application on a supported display, use your fingers to tap buttons, pan through maps, select items from lists, and adjust values of selectors. Precision-IQ will automatically display a keyboard or number pad as needed.

CAUTION!



Do not press on the screen with a sharp item, such as a pencil. You may damage the surface of the screen.

For details on how to tap, swipe, pan, etc., refer to your favorite Android user guide.

Swipe down from the top of the screen as quick access to:

- Brightness
- Wi-Fi settings
- USB settings
- Android settings
- USB drive details

Configuration of Precision-IQ application settings is managed on the Settings screen. To access this screen:

1. From the Launcher screen, tap the **Precision-IQ** icon to open the Precision-IQ application.
2. From the Precision-IQ Home screen, tap the **Settings** button to open the Settings screen.

From the Settings screen, tap a setting option to set your preferences for Precision-IQ as described in the sections below.

Display Setup

Tap **Display Setup** to configure:

- **Display Units:** toggle between US (feet and inches) and Metric (meters and centimeters) measurement values.
- **Number Format:** toggle between using a period (for example, 100.0) or comma (for example (100,0)).
- **Digital I/O Port Setup:** This setting is used enable the ports on the display for connecting a peripheral.

Tap Digital I/O Port Setup to make your selection from the following choices:

- Remote Logging with External Camera
- Radar Output with Remote Logging
- Radar Output with External Camera

Mapping

With the mapping setting, you can set options for how you want maps to be displayed in Precision-IQ. For details, see Run Screen.

Patterns

As you work within a field, Precision-IQ provides a variety of guidance pattern mapping icons you use to identify elements within your field. This setting allows you to adjust how these icons display. For details, see Run Screen.

Steering and Guidance

This setting provides options you can set to adjust the steering and guidance functions of your vehicle. For details, see [Auto Guidance Setup](#).

Safety and Alarms

This setting allows you to set a timeout for when you want Precision-IQ to automatically disengage auto steering or application control operations.

- **Auto Steering Operator Timeout:** The amount of time before Precision-IQ disengages auto guidance and stops applications when there is no response to a shutdown message. For details, see *Safety and Alarm Settings* in [Auto Guidance Setup](#).
- **Application Control Operator Timeout:** The amount of time before Precision-IQ disengages automatic application control when there is no response to a shutdown message.

Application Control

Use this setting to:

- Allow access to advanced implement setup and calibration.
- Switch on/off coverage logging based on applied flow rate when using application control.
- Automatically calculate the manual boundary increment based on the section widths of the primary channel.

ISOBUS

If you are using an ISOBUS implement, then use this setting to:

- Enable Universal Terminal.
- Enable Task Controller support.
- Enable automatic ISO configuration updates.

For details, see [ISOBUS Implements: Add an ISOBUS Implement with Application Control](#).

Office Sync

This setting enables or disables Office Sync, which allows Precision-IQ to send collected data files to your back office automatically and receive files sent from the office to the field.

Trimble Ag Software includes the licenses and support for Precision-IQ's Office Sync feature. For details about Trimble Ag Software, see:

<https://agriculture.trimble.com/software/farmers/>

See also: [Using Precision-IQ's Data Transfer Service](#)

Users and Passwords

This setting allows you to manage and maintain users and passwords for the Precision-IQ application. When enabled, Precision-IQ allows for multiple user/operators to login and perform a variety of tasks, as needed. For details, see [Managing Users and Passwords](#).

Logging

Use this setting to:

- Enable GNSS data logging at startup.
- Enable verbose Application Control data logging.

For details about how to transfer these data files, see [Using Precision-IQ's Data Transfer Service](#).

About

Tap **About** for a summary of:

- **Software information:** Shows a list of all installed software packages. Details include the name of the software, the version of the software, and when it was installed onto the display.
- **Current user information:** This option is available when a user is logged into Precision-IQ. For more information, see [Managing Users and Passwords](#).
- **Current preference information:** Shows a summary list of all preferences you have set.

- **Device information:** Shows a summary of hardware information about the display and any available network information.

Compatibility with Automated Guidance and Steering

The Precision-IQ application is compatible with the following automated guidance and steering:

- Trimble Autopilot™ automated steering system.
- Trimble Autopilot™ Motor Drive automated steering system.
- Trimble EZ-Pilot Pro™ automated steering system (GFX-750/XCN-1050 Display System only, using the NAV-900 guidance controller).
- Trimble EZ-Steer® assisted steering system (TMX-2050/XCN-2050 only).
- Trimble EZ-Pilot® steering system (TMX-2050/XCN-2050 only).

Precision-IQ can use an array of additional products to maximize efficiency, including:

- Creating fields and guidance patterns.
- Using guidance patterns for automatic guidance systems.
- Logging coverage data.
- Output of information for analysis in office-based software (for example, Farm Works Software® solutions).
- Rate control for liquid products.
- Section control for liquid products.

For More Information

Contact your local Trimble Regional Sales Manager.