XCN-750
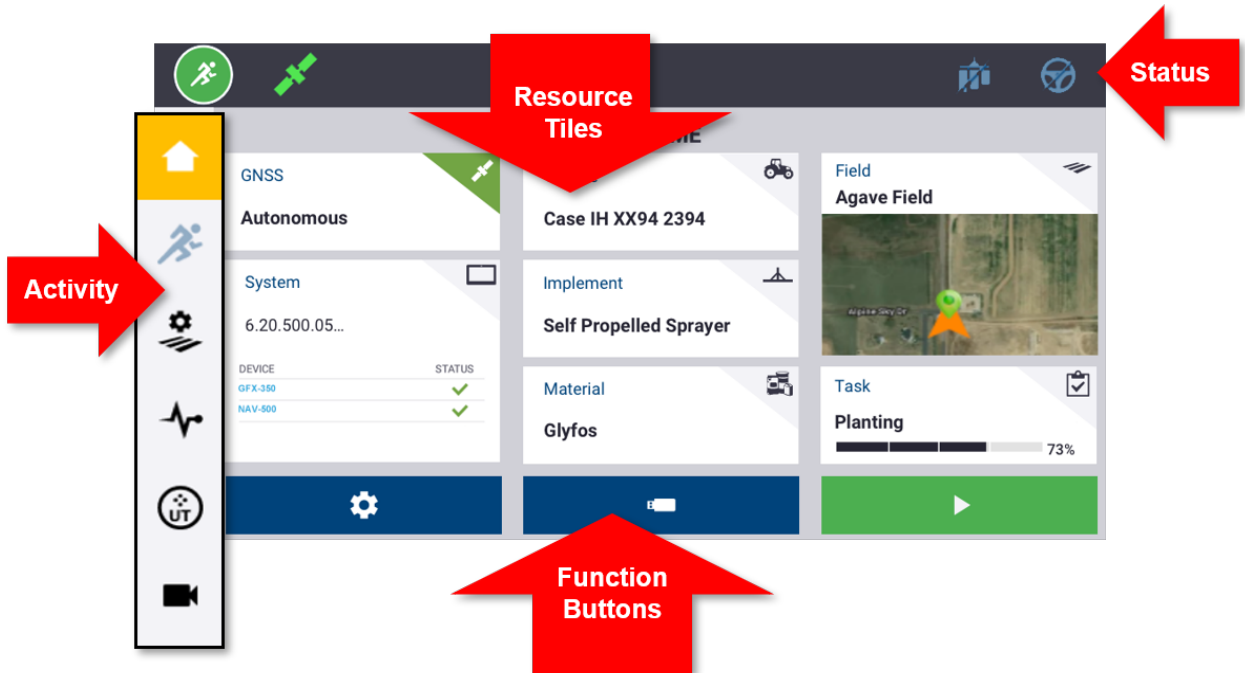## DISPLAY SYSTEM

The XCN-750™ display is a touchscreen platform for precision agriculture.

Tap the Precision-IQ™ widget to launch the application:

QUICK TOUR: PRECISION-IQ HOME SCREEN

Status

Resource Tiles

Activity

Function Buttons

GNSS
Autonomous

System
6.20.500.05...

DEVICE	STATUS
GFX-350	✓
NAV-500	✓

Case IH XX94 2394

Implement
Self Propelled Sprayer

Material
Glyfos

Field
Agave Field

Task
Planting
73%

Emergency Stop - Swipe up and tap the **Emergency Stop** icon from any screen to stop all activities controlled by the display.

PRECISION-IQ HOME SCREEN RESOURCE TILES

Tap the resource tile on the Home screen to configure and select the appropriate Precision-IQ resource.


⚠️ **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.

For details on how to configure and select Precision-IQ resources, contact your authorized reseller.

GNSS

The **GNSS** tile identifies the correction services you will be using in the Run screen. A subscription may be required in support of the correction services configured.

The GNSS tile shows the status of the satellite connection. **Green** indicates satisfactory coverage:
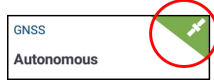
GNSS
Autonomous

By default, GNSS is set up for **Autonomous** correction. Tap the GNSS icon in the upper-left corner of the status bar for a quick view of the guidance corrections in use:

Vehicle

Precision-IQ provides a variety of vehicle types you can select for the task you need to complete. Tap the **Vehicle** tile to view all details about your vehicle, including measurements and antenna orientation.

On the Vehicle screen, you can configure a new vehicle profile, select an existing profile, and edit profile details. New vehicle profiles with guidance will need to be calibrated from this screen.

With an appropriate and active guidance license, you can configure a vehicle to use a variety of assisted steering and full autoguidance products.

The Vehicle tile shows the currently selected vehicle. **Gray** indicates the vehicle is ready for use:

Vehicle
Case IH XX94 2394

If you need to change a vehicle profile, tap the **Vehicle** tile and select a different one from the Vehicle screen. Tap **Select Vehicle**:

Allow up to 45 seconds for the vehicle profile to be updated. During this time, some functions will be disabled.

Implement

The **Implement** tile identifies the hardware you use to perform the work in the Run screen. Implements can be pull-type equipment or attachments for self-propelled equipment.

A variety of implement types is provided so that you can select the right one to accomplish your task. With an appropriate license, implements that use application control can be managed through the Precision-IQ display. With application control, you can apply just the right amount of inputs optimizing placement and application rate.

The Implement tile shows the implement type selected. **Red** indicates that an implement is invalid and requires a valid license for the application type or an update to its configuration:

Implement
Self Propelled Sprayer

You **must** select a valid implement before you can select a material or task. To change an implement profile, tap the **Implement** tile and select a different one from the Implement screen. Tap **Select Implement**:

Material

Tap **Material** tile for details about the product you are applying to a particular field. Precision-IQ records the amount used and placement of each material.

Material
Glyfos

The Material tile shows the current material selected and the coverage rate for application.   indicates that the material must be updated:

Note: If the selected implement does not apply a material (for example, tilling or subsurface drainage implements), then no material will appear on the Materials tile.
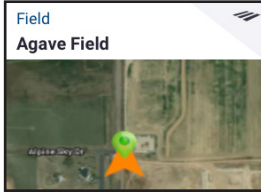
Field

Tap the **Field** tile for a list all of the fields associated with a client and farm. Precision-IQ can manage multiple clients, farms, and fields. A client can have any number of farms, and a farm can have any number of fields. With Precision-IQ, you can quickly review all clients, farms, and fields that you need to see.

On the Fields screen, you can filter by client and farm, and you can create new ones as needed.

A newly created field **must** *belong to a client and a farm.*

You must select a field before you can select a task or perform any work on the Run screen. Tap the **Field** tile to select a field and filter the available fields by farm and client:

Task

The **Task** resource corresponds with the selected implement and material. The Task tile shows the percentage completed:

Note: You must select a field before a task can be assigned.

> **For details on how to create and select a field or task, contact your authorized reseller.**

ENTER THE RUN SCREEN

With all Precision-IQ resources configured and selected, tap the green **Start** button to enter the Run screen and start your task:

THE RUN SCREEN GUIDANCE PATTERNS

While in the Run screen, Precision-IQ records all field activity (vehicle performance, material application, field coverage, etc.).

Guidance Patterns

On the Run screen, you can define the boundaries, guidance patterns, and any number of landmarks. Tap the **Field Features** button to define the boundaries, pivots, and lines for your field:

Record a **Boundary** for your field. This setting defines the edges of your field.

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.

Create a simple **AB Guidance Line** when you do not need a headland and you want to drive the filed in parallel straight lines.

Create an **A+ Directional Guidance Line** when you need guidance exactly parallel to the last AB line.

Record a **Curved Line** when you want to work the field with gentle curves.

Auto Close

For boundaries and headlands, Precision-IQ makes it easier to close the pattern with Auto Close. To use the auto close function:

1. On the Home screen, tap **Settings** and then tap **Patterns**.
2. At the Boundaries and Headlands sections, turn on auto close. You can also set the auto close distance in these sections.

Landmarks

On the Run screen, you can define a variety of point, lines and area landmarks. Tap the **Field Features** button to define them for your field:

Create a **Landmark Point** for your field. A Landmark Point identifies singular elements of your field to be avoided, such a tree, rock, 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.
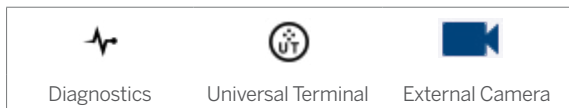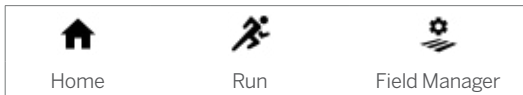
Create a **Landmark Area** for your field. Landmark areas are defined as:

- *Productive*, such as a crop zone.
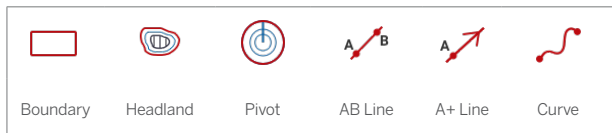- *Non-productive*, such as a pond, marsh, or area that does not need to be worked again.
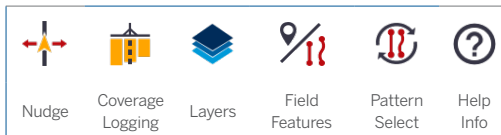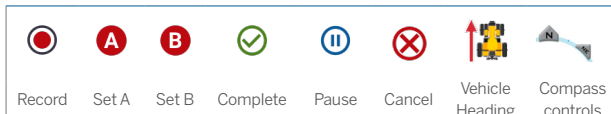
COMMON PRECISION-IQ ICONS

Activity Icons

Home	Run	Field Manager

Diagnostics	Universal Terminal	External Camera

Guidance Pattern Buttons

Boundary	Headland	Pivot	AB Line	A+ Line	Curve

Function Buttons

Settings	Data Transfer	Start	Stop/Done

Run Screen Icons

Nudge	Coverage Logging	Layers	Field Features	Pattern Select	Help Info

Recording Buttons

Record	Set A	Set B	Complete	Pause	Cancel	Vehicle Heading	Compass controls

Landmark Buttons

Point	Line	Area	Non-productive area

Status Buttons

Start	Stop/Done	GNSS Status	Coverage Logging Active	Autosteer Ready
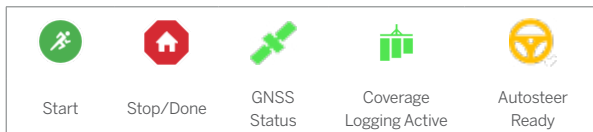
DATA TRANSFER

All data collected by Precision-IQ can be transferred to Trimble Ag Software or to other Precision-IQ displays. This data is used to efficiently and effectively manage your farm.

You can transfer this collected data:

- **Automatically** using Trimble Ag Software's AutoSync™ feature through a cellular or Wi-Fi connection.
- **Manually** using a USB drive through the USB port on the display.

For details about Trimble Ag Software or AutoSync, see: https://agriculture.trimble.com/software/farmers/

USING APP CENTRAL

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

From here, you can browse available applications and updates, check licenses, and check for automatic software updates or manually update software.
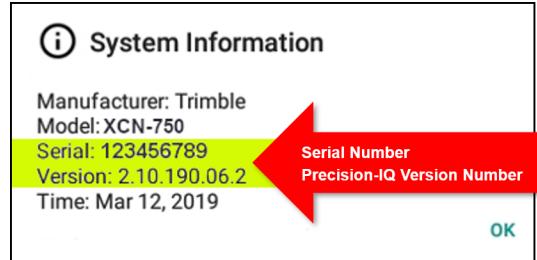
On the App Central screen, tap the **menu** icon in the upper left-hand corner to display the App Central menu, where you can:

1. Tap **My Apps** to view your installed apps and to configure update notifications.
2. Tap **Browse Apps** to view all available apps that you can install.
3. Tap **Licenses** for a list of active licenses for the display and GNSS guidance controller.
4. Tap **Support** to retrieve log files to save to a USB drive. You can also send feedback to your support service and include current system information.

System Information

On the App Central screen, tap the information icon in the upper right-hand corner to display version details about your display, such as the **serial number** and **build version** of Precision-IQ:

ⓘ System Information

Manufacturer: Trimble
Model: XCN-750
Serial: 123456789 — Serial Number
Version: 2.10.190.06.2 — Precision-IQ Version Number
Time: Mar 12, 2019

OK

Contact your authorized reseller for details on installing the latest Precision-IQ version.

OTHER LICENSES AVAILABLE

A wide variety of tools and features are available for you to purchase to effectively and efficiently manage your farm. Contact your reseller for more information or to schedule a demonstration.

XCN-750 DISPLAY SYSTEM

System Overview

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.
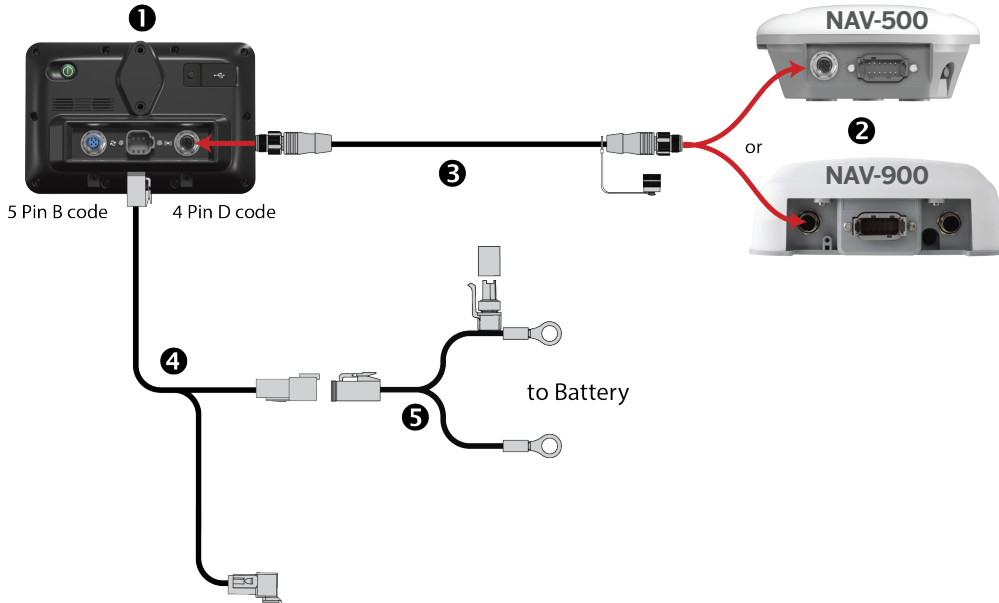

	Description	Use to ...
❶	Power button	Turn the display on or off.
❷	Expansion Port (5-pin B code)	Connect to various inputs and outputs.
❸	Main Power connector	Powers display system (including the NAV-500/900).
❹	Power/Ethernet Port (4-pin D code)	Connects to NAV-500/900 Guidance controller (power/GNSS).
❺	USB socket	Connect a USB memory stick to the display to transfer data to and from the unit.

	Description	Use to ...
❻	Power/Ethernet Port (4-pin D code)	Connects to XCN-750 (power/GNSS)
❼	Main Port- 12 pin DTM	Connects to various Auto Guidance systems.
❽	RTK Radio Port (5-pin A code) (NAV-900 only)	Connects to various RTK radios.

Note: *The XCN-750 display can be connected either to a NAV-500 or a NAV-900 guidance controller.*

	Description	Part Number
❶	XCN-750 CNH, Display 7", PIQ	136000-80
❷	NAV-900 Guidance Controller, CNH branded	108993-85
	NAV-500, CNH branded	132000-82
❸	Cable Assy, XCN-1050/XCN-1050 to NAV-900, Power/Ethernet (BRR), 5m	110540
❹	Cable Assy, XCN-1050/XCN-1050, Power to display, CAN, 2.5m	110551
❺	Cable Assy, GFX/CFX/FM-750/XCN-1050/FMX/ FM-1000 Basic Power, 4m	67258

Note: *Cables described as for use with the XCN-1050 are also applicable to the XCN-750 display.*

Declaration of Conformity

Hereby, Trimble Inc., declares that the radio equipment type Autopilot, XCN-750, NAV-500, and NAV-900 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

https://agriculture.trimble.com/precision-ag/products/displays/

Documentation Resources

This document provides a general overview of the basic features of Precision-IQ and the XCN-750 display. For complete documentation, including installation guides and reference manuals, visit the following URL:

https://agriculture.trimble.com/precision-ag/products/displays/

136000-80-ENG