



Display User Guide Firmware Version 1.2 PN 4004700—ENG Rev. D

- Miles

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General Information

The display is a full-featured, year-round hub for any precision farming operation. A full-color, high-brightness, highresolution touchscreen display is easy to read and offers powerful, year-round precision farming tools. Built-in manual guidance, full-screen mapping, planter and application control, yield monitoring, real-time data logging and automated steering make up the core functionality of the display.



Read user guide completely before operating display. Understand and follow all operating and safety instructions for proper use of this display. Failure to use display properly could result in an impairment of the safety features of this product.

Service and Support

There are no user-serviceable parts inside the display. Contact a local Ag Leader Dealer or Distributor to setup a return for repair. For Technical Support contact your local dealer or Ag Leader Support at the number below.

ph: (515) 735-7000

e-mail: support@agleader.com



This display has an internal lithium coin cell battery that is good for the life of the product and does not need to be replaced. There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the battery manufacturer's instructions.

Color Touch-Screen

Here are a few key things to remember if you are new to using a touch screen device:

- Do not use any sharp objects for running the touch screen device, this could result in damage to the display. Using the tip of a finger is the recommended method of operating the display touch screen.
- Do not use any harsh chemicals to clean the touch screen. Using a damp soft cloth or an anti-static wipe made specifically for cleaning computer displays is the correct way to clean the screen and the enclosure.
- The display uses a capacitive screen that is heat sensitive. It requires only a brief, gentle touch to operate correctly. A common mistake is to try to navigate too quickly through the system using firm taps instead of gentle presses.

Technical Specifications

Do not exceed the specifications below:

- Storage Temperature: -22 to +176 °F (-30 to +80 °C)
- Operating Temperature: -4 to +158 °F (-20 to +70 °C)
- Operating Input Voltage: 9 16 V DC
- Max Current Rating: 7.5 amp
- Fuse: Blade Style (ATO/ATC)
- Environmental Protection Rating: IP64
- No Protective Grounding required
- Use 150V minimum insulation rating for external circuits



Required software updates will be available free of charge for download from www.agleader.com. It is recommended that the user check for available updates at the beginning of each season.

General Information

Automated Module Firmware Upgrade

In the display, all display and module firmware upgrades are packaged in a single .fw3 file. The module firmware files are stored internally in the display. A warning alerts you when a module upgrade is required. You can upgrade all files in a single batch by using an upgrade screen.

Product Registration

When registering your Ag Leader Technology products by one of the following methods, you can elect to receive notice of any new product updates or features.

Register by mail:

Ag Leader Technology

2202 South Riverside Dr.

Ames, IA 50010

Register at the Ag Leader Web site:

http://www.agleader.com

Operator Safety

Symbols

These symbols are used throughout the user guide to designate where some sort of extra attention has to paid for the reader. The four symbols have following meaning.



DANGER!: This symbol means DANGER. Be very alert as your safety is involved.



WARNING!: This symbol means WARNING. Be alert as your safety can be involved.



ATTENTION!: This symbol means ATTENTION. This guides to better, easier and more safe operation.



NOTE: This symbol means NOTE.

Precautions

Note the following recommended precautions and safe operating practices before using the sprayer.

General info



DANGER!: Read and understand this user guide before using the equipment. It is equally important that other operators of this equipment read and understand this user guide also.

If any portion of this user guide remains unclear after reading it, contact your dealer for further explanation before using the equipment.



DANGER !: Keep children away from the equipment.

Servio

DANGER!: Never service or repair the equipment while it is operating. Always replace all safety devices or shields immediately after servicing.



DANGER!: Turn electrical power off before connecting and disconnecting the display and transducers, servicing or using a battery charger.



DANGER!: If an arc welder is used on the equipment or anything connected to the equipment, disconnect power leads before welding.

DANGER!: Do not use a high pressure cleaner to clean the electronic components.

Display Display Hardware

Front side

- A. Light sensitivity sensor—Used to automatically dim the display during night-time or low-light situations.
- B. **Power light**—The power light displays one of three states:

Green = ON Pulses amber = Standby Mode Solid amber = Running on battery power

C. Built in lightbar—for guidance

Side

D. Side mount USB media slots

(2 slots for 1200, 1 slot for 800)

Used for data transfer in and out of the display.

Used to charge mobile devices up to 1.2 amps.

Rear

- E. WiFi-802.11 communication
- F. **Speaker**—The built-in speaker is used for audible warnings. The volume can be adjusted through the display setup routine.

G. Mounting bracket

H. Power/Reset switch

The Power/Reset switch is used for turning the display on and off in installations where the system is connected to a continuous power supply.

If the display ever stops responding, the manual power switch may be held in for five seconds to restart the system. Only do this as a last resort, data loss could occur during times of improper shutdown.

- I. 19-pin auxiliary connection—Used for camera input.
- J. 19-pin plug—The 19-Pin round display connector contains CAN, RS-232 serial, and system power and ground connections. It is compatible with some certain other displays.

K. HDMI OUT (1200 only)

L. Ethernet Connection—4-pin connection used for communication with ParaDyme, GeoSteer, SteerCommand, OnTrac3





General Information

Installation Instructions

All machine installation and mounting kits are shipped with instructions specific to that kit. Instructions include special details relating to mounting, wiring and display configuration.

Mount the display securely inside the vehicle cab. The following must be considered when choosing a mounting location:

- The display must be readily accessible to the machine operator.
- The display must not obstruct the machine operator's normal driving view.
- The display must not interfere with or limit access to any of the existing machine controls.
- The CAN system cabling must be routed and secured without interfering with existing machine controls.
 - (A) RAM Base
 - (B) RAM Arm

(C) Base

A DANGER!: If drilling holes is required during the mounting process, care must be taken to insure that damage is not done to existing



vehicle wiring, mechanical, or cab structure. Refer to vehicle manufacturer documentation for specific details on your equipment. Follow all OEM instructions, cautions, and warnings when working around equipment.

Fuse Installation and Replacement

Fuse Type: Blade Style (ATO/ATC)

Rating:

- Fuse Holder (orange wire) 7.5A, 250 VAC
- Fuse Holder (pink wire) 15A, 250 VAC
- Fuse Holder 30A, 250 VAC

The fuse is to be placed in the fuse holder in-line with the battery power cable and used with display only.



Initial Startup General info

1

An Initial Setup wizard is presented on startup. The wizard is presented if the display is brand new out-of-the-box.

NOTE: Not all of the following parts may be required to follow - it depends on your specific setup.

Once the wizard is completed, it is not shown again unless the display memory is cleared.

Initial Setup Wizard

The Initial Setup wizard will take you through the following setup items:

Time\Date, Time Zone, Unit System, Language

- Advanced Options
 - Restore Backup—see "Restore Backup File" on page 31
 - Upgrade Firmware—see "Upgrade Firmware" on page 31
 - Unlock Display Features—see "Unlocking Features" on page 20

Single or Multiple Display Setup

• Single—use single display if this is the only display that is getting setup

• Multiple Display—use multiple display if there is more than one display in the operation and the plan is to share management data between displays. After initial setup is complete, enter management information and create an .agsetup file.

1

NOTE: Using the Restore backup option is not the proper method to get multiple displays set up to be the same. Use the .agsetup file.

It is acceptable to complete the Initial Setup wizard and then upgrade. Setup information will not change.

• On a "clean" display going out for service, to stand in for a failed display, the customer should use the Restore backup option in the Initial Setup wizard.



ATTENTIONI: The business created on the first display, and any other management and equipment items, will be imported to the additional displays.

Startup

Homescreen Layout





Setup—Access display's setup items.



Summary—Used to access previously logged data, maps, reports.



Universal Terminal—Used to interact with UT based ECU's. It must be enabled in setup.



Camera—View cameras attached to the display. It must be enabled in setup.



Tillage—Create configuration or start operation specific to tillage.



Planting—Create configuration or start operation specific to planting.



Application—Create configuration or start operation specific to application.



Harvest—Create configuration or start operation specific to harvest.



Water Management—Create configuration or start operation specific to water management.



Guidance—Used to start guidance steering only operation.



AgFiniti Status Indicator

∩∉

Satellites Status Indicator

Devices Status Indicator

Most of the functionality of the display is not available until the basic setup process is completed.

You must complete these initial configuration steps for the Run Time Environment to be active:

• Equipment Operating Configuration.

You can access Configuration Setup by pressing

- Product setup.
- Start Field Operation.

Status Indicators

Status Indicators are used to show different states of external equipment

connected to the display (for example: , , and , and) and provides easy access to data transfer and diagnostic features of the display.



CAN



Technical support may request that you look at these screens for help in diagnosing a problem.

The Devices screen displays the modules that are connected to the CAN A and CAN B bus (CAN B is for ISOBUS). Select a device to display its particular firmware and hardware information.

Device Information includes:

- Firmware Version
- Firmware ID
- Hardware ID
- Serial Number
- Revision
- Run Time shown in hours:minutes:seconds
- Display Boot Counter.



NOTE: Check the CAN device list to ensure that all hardware modules appear there.



or pressing an app specific to a field operation.

Startup

Diagnostics

Press "Diagnostics" button to open the Display Diagnostics screen. This screen includes information about the system memory usage and available memory.

S.	Display Diagnostics	
	RAM	
	113.2 / 2021.6 MB	
	5%	
	Buffers 7.7 MB	
	Cached 118.4 MB	
	Internal Storage	
	0%	
	IP Address	
	Wired: 192.168.10.15	
	Wireless: 10.52.38.119	

CAN B

If an ISOBUS ECU is connected to the system, the ECU description will populate on the CAN B tab.





Press to adjust Guidance settings, GPS settings, and lightbar settings.

D.

Display button

Press to adjust settings for time and date, brightness and volume settings, operating units, language, enable video, view features, and also create and restore backups.

Equipment Setup Configuration tab



The Configuration tab is where you can create, view and change configuration settings.

An operating configuration is a task-specific association of vehicle, implement, controller, and speed source that is saved for use over different seasons and on different displays.

- When finished, the new configuration appears in the list on the left side of the screen.
- When you highlight the configuration, the equipment in the configuration is listed in the box on the right side of the screen.



NOTE: Information regarding configurations for specific operations is given in each operations feature user guide.



WARNING!: When you remove a configuration all data logged with that configuration will also be removed! However, all log files will remain in memory until exported to the USB drive.

Equipment Press to add, edit, or remove information for a specific vehicle, implement or controller.

Vehicle Offsets



Vehicle offsets can be entered during configuration setup or later using configuration settings

Vehicle offsets define where the machine's rear axle and hitch is in relation to the GPS antenna. These settings are used for accurate mapping and autoswath.

When the process of setting up a Vehicle is completed, you can later re-configure vehicle offsets.

The vehicle offsets settings consist of two tabs: the Antenna tab and the Hitch tab.

1

NOTE: Accuracy when measuring for a specific setting is essential to ensure proper machine performance.

Antenna Offsets tab

At the Antenna tab, enter the distance from locations on the vehicle to the antenna.

• Measure and enter the horizontal distance from the rear axle to the position of the GPS antenna.

Select IN FRONT or BEHIND to indicate the position of the antenna in relation to the rear axle.

• Measure and enter the horizontal distance from the center line of the vehicle to the position of the GPS antenna.

Select LEFT or RIGHT to indicate the position from the vehicle center line.

• Measure and enter the vertical height of the antenna above the ground.

		Vehicle Offse	ets: Tractor				
Antenna	Hitch						
		Enter Distance from Vehicle	Reference to the	Antenna			
		Antenna Location from Rear Axle	0 in 📓	In Front	•		
		Antenna Location from Centerline	0 in 📓	Left	•		
		Antenna Height from Ground	0 in 🔳				
					1	×	100

Hitch Settings tab

The Hitch tab allows you to enter in the distance from three different mounting positions on the tractor to the rear axle.

Press to enter these values in if using the hitch point.



NOTE: Accuracy when measuring for a specific setting is essential to ensure proper machine performance.

Mount Tab Settings

The Mount tab will only be available when using a Self-Propelled sprayer.

This allows you to enter in the application

location from the rear axle. Press

enter in the distance and the drop-down box to select if it is in front or behind of the axle.

to

Implement Offsets



Implement offsets are used to accurately portray how equipment is setup and operating. An implement offset may be needed to account for incorrect guess rows and minimizing skip/overlap.

Section Offsets

- Press the first to enter the distance that the application point is located from the hitch point.
- Press the second to enter the distance from the mid-point of the swath section to the machine's centerline. Select to the left/to the right to indicate the direction the swath section is located from the vehicle centerline.
- Press vhen finished.
- Multiple tabs will appear across the top if different controller types are used in the configuration.



Speed Input Settings



This will show speed in the upper blue bar of the Map screen, when operating.

	1		
Antenna Hitch	Europia Composition de la composition	E.B. Southeastern	
	Rear Drawbar	0 in	
	Rear Lift Arms	0 in 📄	
	Front Lift Arms	0 in 📗	
			×

Choices for Primary Source include:

- Display GPS
- Auxiliary Device
- Manual Speed

Primary vs Secondary Speed Source—By default the display will use the primary speed source when operating on the Map screen. If for some reason the primary speed source is unavailable it will revert to the secondary speed source

Display GPS—The display will use the GPS receiver attached to the display via Serial or CAN (Intellislope) as the speed source

Auxiliary Device—An auxiliary device can be either radar or wheel speed (combine). When using an auxiliary device be sure to calibrate it for an accurate speed input.

speed input	
Primary Source	
Display GPS	
Backup Souce	
Auxilary Device	
Auliary Device Channel	
Radar 🗸	
 Auxiliary Channel Calibration	
2000 Calibrate Distance	
Pulses / 100	
)

Manual Speed—In the event GPS speed or an auxiliary device is unavailable the display can be set to manual speed. Manual speed only works for the region it is selected on.

Product tab



The Product tab is where you can perform the following tasks:

- Add or import Planting products.
- Add or import Application products.
- Add product template (such as a tank mix, or a dry blend of multiple products).
- Add or import Harvest products.



Add button



Press to add or import a product. At the following screen, choose a Product Option: Add Product, Import Product, or Add Product Mix (if in Application). From here, an on-screen wizard continues you through each step of the setup process.

- When finished, the new product appears in the Product tab.
- When you highlight the product, information about the product appears on the right side of the screen.
- Specific planting and application product information can be viewed in those respective user guides.

ATTENTION!: When you remove a product all regions using that product will also be removed.

Management Setup

Management button—from this screen the operator can access Grower/Farm/Field, Season,

User, and Businesses tabs.

Grower/Farm/Field tab



Grower

The Grower refers to the business or person that the system is in operation for. Contact information can also be entered for each Grower. The Grower information will be passed into mapping software for automatic Grower setup within desktop software.

Personal Information entered at this screen can be added or edited at any time.



Field Information

Rented

FSA Number

FSA Area

Legal Description

Farm

Clear Bounds

intint:

0

Farm and Field

In the display, farms are subdivided into fields. You can associate Field names with a particular Farm or Grower. If the display will be used for multiple Growers, enter each Grower business name and associate the Farm and Field names with the correct Grower when the fields are set up within the system.

Field

Area

County

Township

Range

Section

To edit Field specific information, press



after highlighting the field name.

Creek Bottom 30

The Field Information screen opens, showing the name of that field in the Title Bar. Field name information that can be added or edited by



pressing including Farm, County,

Township, Range, Section Number, Area, FSA Number, FSA Area and Legal Description.

Area—shown in the total acres (hectares) of the field. Used to calculate area remaining in field.

Clear Bounds button—press to center the map on the current GPS position.

i The Clear Bounds feature is particularly useful if you have flyer points or have logged a point outside the mappable range of your current location.

Importing and Exporting Field Boundaries

Boundaries can be created with the display or

imported from desktop GIS software. Any boundary files present in the display can also be exported for use in desktop mapping software.

ant

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0



USB Import button

To import a boundary from the USB drive, first go to the Setup Field tab, highlight the correct field in the Farm/Field list and press the USB Import button.



The File Selection screen appears. Highlight the desired file to import.

Operator can import/export all fields and boundaries at once with an .AGSETUP file.



to complete the import process.





USB Export button

To export a boundary to the USB drive, highlight the correct field in the Farm/Field list and press the USB Export button. At the File Selection screen, highlight the desired field to export. A screen will appear telling you that

the boundary was exported successfully. Press 🗸 return to the fie

return to the field setup screen.

Season tab



A Season is defined as the calendar year that the crop will be harvested. A Season has a start and an end date. Creating a Season and setting it to active is required prior to the system logging any data.

The seasons are displayed in lists, with the active season displayed in bold face type. All new data is logged to the active season; therefore a Season must be set as active before you can log any new data to it.

If a user would like to remove logged data from the display they can delete a season from the display. Before deleting a Season make sure that all logged data has been properly archived within management software or AgFiniti Mobile.

Users tab



User tab allows user to add, modify, or delete users from the display.

Add a User



- 1. Enter first name and/or last name (have to enter a first or last name, recommend entering both).
- 2. Enter applicator license (optional). Press \triangleright to continue.
- 3. Select Operator or Manager (can select either, none, or both). Press
- 4. Enter and verify password (optional).
 - Locks the displays ability to load/change operating configurations, access setup and USB, if Manager has a password set
 - Leaves display unsecured unless each manager sets a password
 - No restriction for password format (can be any combination of letters, numbers, and special characters)
 - Case sensitive

5. Press 🗸 to accept.

Edit User Profile



"Edit User" screen allows user to edit information originally entered when profile was added. Edit button also allows access to more phone, email, and address information.

_			East Ober		
General F	hone/Email	Address	Permissions		
Home Phor	ie				
Mobile Pho	ne				
Business P	hone				
Home Emai	ii 🗌				
Business E	mail				



to continue.

General tab

First and Last Name Set and Clear Password Applicator License Memo

Phone/Email tab

Home Phone Mobile Phone Business Phone Home Email Business Email

Address tab

Address Extended Address City/Locality State/Province Country Postal Code

Permissions tab

This is an optional function that defines what access the user will have in the display. Users are defined as Operator or Manager (can select either, none, or both).

Operators

- Have full or limited access
- No access to USB or Setup options, unless also set as a Manager
- Can import from USB from Map screen (RX, patterns, boundaries)
- Manager sets up privileges

Managers

- Full access to the display settings and functions
- Only user that can change the selected configuration
- Ability to log out of the display

System can be set up with operators only. Passwords are not used when set up this way.

Permission Level For Operators

Full Permission—Provides full access to features and functionality on the map and home screen. A user, set only as an Operator, cannot select a different configuration and cannot access data transfer or setup, when a manager is setup in the display.

Basic Permission—No access to:

- Summary screen
- Legend tab on Map screen
- Marks tab on Map screen
- Boundary tab on Map screen

Limits Guidance options to:

- Creating & loading Straight AB or SmartPath patterns
- Nudge
- Remark A
- Save or reset guidance line

General	Phone/Email	Address Per	missions	
User Ro	e		Permission Level	Ļ
Mar	ager		Full permission provid unlocked features and	as this user access to al functionality.

Custom Permission—Can allow or deny the following options:

- Management screen
- Pan/Zoom controls
- Legend Toolbox
- Marks Toolbox
- Boundary Toolbox
- Guidance Toolbox
- Minimize Toolbox
- Each individual guidance pattern
- Ability to remove guidance pattern

Management
— 📝 Field Management
View Summary

Display uses Traditional mode when Field Management is checked. Events using the Traditional mode are tied to the Grower/Farm/Field structure.

Management

– 📘 Field Management – 📝 View Summary

Display uses Events Only mode when Field management is unchecked.



The Home and Map screen will appear different depending on how you assigned user permissions.

Basic Permissions - Home screen

- Summary screen locked
- Setup and Data Transfer are locked (as indicated by a padlock icon on those buttons)
- Operator Change Option to continue or start new operation when operators change

Full Permissions - Home screen

- Summary screen button is accessible.
- Setup and Data Transfer are locked.
- A manager can access these buttons by pressing the button and inputting their password.
- Configuration is locked when field operation is started.



Basic Permissions - Map screen

- Guidance and Legend tab
- Create guidance lines
- Straight AB
- SmartPath
- Nudge
- Guidance setup

≡ 0.00		0.0	men
Guidance			
New Pattern			
Load Pattern			
Manage Patterns	A		
		Ŵ	$\overline{\mathbf{A}}$

Accessing Setup Menus



A. Press Setup (wrench) button.

B. Select Manager from drop-down menu. Press

~

C. Enter password. Press 🗸

Now have complete access to the setup menus:

- Configurations Settings
- Grower management
- GPS settings
- Display settings

Do not have to be a Manager to create certain objects

- Grower
- Farm
- Field
- Product (can't change units)

Accessing Data Transfer

Data Transfer



- A. Select Manager from drop-down menu. Press
- B. Enter password. Press 🗸 🗸

Now have complete access to the USB functions:

- Networking
- AgFiniti Login
- Import/export
- AgSetup files

- Export data
- Upgrade firmware
- Advanced options
- Advanced Options with USB
- Ability to create/restore backups from USB
- Options for exporting log files
- Export by grower
- Export data at shutdown
- Export all log files

Forgotten Passwords

When a Manager forgets his password he won't be able to access Setup. Tech Support will be able to generate a password based on the serial number and firmware of the monitor.

Password generator will require the following information:

- A. Display serial number
- B. Major revision—First digit of firmware version
- C. Minor revision—First digit of firmware version after decimal.

Example:

Version 4.5

Major = 4

Minor = 5

Only needed when a Manager forgets their password and works within the display until firmware is upgraded.

How will Tech Support identify if the person calling in is a Manager or not?



They will ask the caller, "Are you a Manager in the display?" If the customer answers yes, Tech Support will generate the password. If the customer answers no, Tech Support will require a Manager to authorize the display to be unlocked.

What if a customer doesn't want to risk forgetting passwords and generating new ones?

A display does not need to be locked with a password. The display can be operated without passwords. Operators can also be setup with limited or customized access without passwords.



- Managers, keep a record of all passwords set in the display.
- Operators, write down your personal password.
- To avoid Operators obtaining unwanted access to a display, instruct them to call a Manager for help with passwords before Tech Support.

Businesses tab



The businesses are displayed in lists, with the active business displayed in bold face type. All new data is logged to the active business; therefore a business must be set as active before you can log any new data to it.

Display Setup



The Display screen contains the following tabs:

- General tab Displays settings related to time, date, display screen settings, operating units, enabling video input, and ISOBUS settings. For ISOUBUS settings "ISOBUS Settings" on page 23.
- **Display tab** Setting up and make any needed edits to the owner personal information.
- Features tab Lists unlocks for display.
- AgFiniti tab Access AgFiniti account settings and options. See "AgFiniti" on page 33.
- Advanced tab Includes information related to log files and system backups. See "Display Backups" on page 31.

Features tab



Unlocking Features

The Features tab is where you can enter unlock codes. Unlock codes are unique to the serial number of each display and the feature registration number. You must supply these numbers to your dealer when purchasing any unlock codes.



to enter the unlock code and



to enable the feature.





Advanced tab



The tab allows to specify:

- Settings for copying log files.
- Specify Key Switch Standby settings.

- View and manually upgrade module firmware.
- Create and restore backup files.



WARNING!: The Export Diagnostic Files, Advanced Parameters, Copy Debug Files, Clear Debug Files and Service Mode functionality on the Advanced tab is reserved for use by the manufacturer. DO NOT change any of these settings without specific instruction from the manufacturer.

Key Switch Standby

This setting allows the display to remain powered up after the vehicle power has been shut down. The display will switch into standby mode and will appear to be shut off; however the power light will change to an amber color. Pressing the touch-screen while it is in standby mode will immediately turn the screen back on again. For this feature to work, the display must be connected to switched power.

Use / To specify a length of time that you wish the display to remain powered up in standby mode after the vehicle power has been shut down.



NOTE: When the time you specified in Key Switch Standby is nearly expired, then the amber-colored power light will flash on and off immediately preceding shutdown. If you wish the display to remain powered up for a longer period of time, touch the display to restart the Key Switch Standby countdown.

About button

Displays product licensing information and copyright information.

Memory

Adjusts information stored in the display's internal memory.

• Create Backup.

Press to create a backup file of all configuration settings, products, and Grower-Farm-Field Management data structure on the USB drive. Backup files are stored using the .ibk3 file format.

• Restore Backup.

Press to restore a backup file from the external data drive to the internal memory of the display.

• Clear Internal Memory.

Press this button to clear the internal memory of the display. The system will present a warning dialogue box and ask if you would like to create a backup file prior to clearing the memory.



WARNING!: Once you clear the system's internal memory, this information is deleted and cannot be restored unless a backup has been made.

View Module Firmware

Displays the Module Firmware Management screen, which is a list of all firmware modules and firmware versions that are available for the display.

NOTE: The Module Firmware Management list includes module firmware that you may not be running.

• Import

Imports any firmware stored on the USB drive into the display memory.

• Direct Upgrade

Upgrades an individual module directly from the USB.

Remove Patterns

NOTE: Pressing this button permanently erases all guidance patterns from the display's memory.



Demo Mode is used for training and

demonstration purposes. Demo Mode gives the ability to show the display in a fully functioning environment without the need for a CAN or GPS simulator. Demo mode is a completely separate run environment from the normally operating mode. This keeps all customer data separate to remove the risk of data getting deleted. Any data that is added, removed or changed while in demo mode will be deleted upon power cycling the display and returning to a normal operating state.



How Demo Mode Works

1. Pressing the Demo Mode button will trigger a request to restart the display. Once restarted, the display will automatically begin an event in demo mode.

2. The event that automatically starts will be a 12 row planter running clutch control, seed tube monitoring, and three variety split logging.

3. The event will continually run on the mapping screen. Users can interact will the menus and legends exactly like they would during a live operation.

4. The demo will continue to run until the field is completed. Once the field is completed the display will sit for 2minutes then restart demo mode over again repeating the loop.

5. Coverage Logging can be manually toggled on an off by pressing the Master Switch icon in



the lower right corner of the screen. With coverage logging off using can leave the mapping screen and go into all menus and setup screens normally. If they would like to continue the demo event it can be done by following the prompts via the Planting Operation Wizard.

6. Any time the display is not active on the mapping screen and left untouched for 2 minutes the display will prompt for demo mode to restart. If the prompt is not accepted within 30seconds demo mode will automatically restart.

7. To return to normal operation, restart the display. **Any data created in demo mode is automatically deleted on display restart.**



ISOBUS Settings



Universal Terminal

The display is compatible with the ISO 11783 (ISOBUS) Universal Terminal Standard. This enables support of many ISOBUS compliant implements on the display. Universal Terminal functionality enables the compliant implement's user interface to be viewed and controlled on the display.

Once Universal Terminal has been enabled, it will appear in the task bar. Toggle between the Universal Terminal screen and other display functions by pressing the UT button.

Task Controller

The InCommand displays have the ability to use ISOBUS Task Controller on compatible ECU's. This allows the InCommand display to control rate and sections of an ISOBUS ECU using Ag Leader's

niversal Terminal	Task Controller
Enable Universal Terminal	Enable Task Controller
 Broadcast Display Speed (ISO GBSD) 	Function Instance 0
Broadcast GPS (J1939)	
Auxiliary Module Support	
Function Instance 0	

proprietary interface. A properly setup display configuration is required for this to work.

ISO Load and Go

With a properly setup ISO ECU, ISO Load and Go streamlines the configuration building process for task controller ECU configurations. The Load and Go feature automatically builds a controller during the configuration building process based on the ECU device description. For this to work it requires the device description to have proper sections, section offsets, and product type setup on the ECU.

Common Terminology

ISOBUS Working Set—One or more ISOBUS modules that control an implement's functionality

Working Set Master (WSM)—Main module responsible for coordinating all communication between the UT and the Working Set including loading of the Object Pool to the UT screen

Object Pool—The graphic image presented to the user on the UT display. The Object Pool is sent to the UT by the ISOBUS module.



ATTENTION!: Before operating an ISOBUS implement with the display, read the operator's manual provided by the implement's manufacturer and follow all safety information provided in the manual. When this display is used with an ISOBUS implement, the information and functions on the display are provided by the implement ECU and are the responsibility of the implement manufacturer.

Broadcast Display Speed (ISO GBSD)—Checking this box allows speed source currently being utilized by the display to be broadcast over the ISOBUS to the implement ECU.

Broadcast GPS (J1939)—Checking this box allows GPS data being supplied by the GPS receiver to be broadcast over the ISOBUS to the implement ECU.

Auxiliary Module Support—Checking this box allows the Ag Leader Auxiliary Input Module or Smart Switchbox, to be used with ISOBUS ECUs that support AUX-N auxiliary functions.

Universal Terminal Functional Instance—Always set to 0 except when there are multiple UTs on the ISOBUS. Use to change instance. Reboot Display

Task Controller Function Instance—Always set to 0 except when there are multiple TCs on the ISOBUS. Use to change instance. Reboot Display

When an ISOBUS compliant implement is connected to the display for the first time, the implement WSM sends its graphic interface, called the Object Pool, to the display. The Status bar (**A**) appears while Object Pools are being loaded. This process might take several minutes depending on the number of Object Pools being loaded. Once loaded, object pools are stored in the display memory.



If there are multiple ISO implements connected,

press the UT button U_{T}

👉 to toggle between

Working Sets.

The Working Sets can also be accessed by pressing tabs (**A**) or (**B**) individually.

\$	●
⁴ 10.670 ^O 1 0.0	0 0
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7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 ○.1 ○.2 ▲ ▲ ▲ ▲
Ag Lea	der day



Advance through multiple screens of buttons. This button remains hidden unless more than 10 buttons are present.



Opens the Universal Terminal Settings screen.

Auxiliary Assignment—assign implement functions to ISO compatible inputs.

Clear Universal Terminal—Allows operator to clear the Object Pools sent to the display from the implement WSM. After the object pools have been cleared, the next time the implement is connected the object pools will be transferred from the implements WSM to the display again. When this button is pressed, a warning dialogue box appears with the following message:

"All Universal Terminal interfaces saved in the display will be cleared. Do you want to continue?"

5		O€ m ^g
4	Universal Terminal Settings	
8	Open	
8	Auxiliary Assignment	
	Clear Universal Terminal	
υ _T		

Auxiliary Assignment



Assign implement functions to ISO compatible inputs.

The number of functions and inputs shown on the Auxiliary Map screens will vary depending on the implement and input devices connected to the display.



UT Alarms and Trouble Codes

If the display receives an active trouble code, the Universal Terminal Alarm will appear in the Status bar at the top of the screen.

When an alarm is activated on the UT, the display will indicate the alarm by flashing "Universal Terminal Alarm" in the status bar.

Alarms are acknowledged and cleared by



This button is only present when a Universal Terminal alarm has been activated.



The Devices screen displays the following information:

- A. Caution icon indicates module has active trouble codes (DTCs)
- B. Device Class
- C. ECU Serial Number
- D. UT Manufacturer, name and code



Pressing the Diagnostics button on the Devices screen brings up the ISO Node Diagnostics screen which shows the following information.

SPN— "Suspect Parameter Number" = Error Number

FMI—"Fault Mode Indicator" = Error State.

OC—"Occurrence Count"

DTC—Diagnostic Trouble Code

This is a combination of the SPN and the FMI (for example 522102.12).

Cross-reference DTC in equipment manufacturer's operator manual for description of error.

Video



Video button. Camera is available from the Home or Map screen. Press video button and the Video screen appears.



NOTE: Video is only available when enabled in the Display Setup menu.

- Brightness increase or decrease the brightness of the video input.
- O Contrast increase or decrease the contrast of the video input.
- Camera Number Selection



The display can receive input from up to four video cameras. Press the numbered buttons to switch views between video cameras.

NOTE: You can adjust the brightness and contrast of each input individually.

Camera Harness—A camera cable, sold separately, will plug into the aux port on the back of the display.


O€ 00⁵

Data Transfer screen

DE 🕬 > 🔀 Data Transfer	>
A. Import Setup	
B. Export Setup	
C. Export Data	
D. Export Reports	
E. Manual Sync	
F. Upgrade Firmware	
G. View Files	
H. Advanced Options	
Create Backup	
Restore Backup	



- Export by GrowerExport at Shutdown
- Export all Logs

.AGSETUP Files

Used to transfer setup information from display to display or from SMS and display

- Allows full synchronization of the following file formats:
 - Management Data (Growers, Farms, Fields, Seasons, Operators)
 - Products and Product Mixes
 - Boundaries
 - Guidance Patterns
 - Marker Sets and Markers
 - Configurations

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NOTE: Do not use the IBK to "clone" a display. Use AGSETUP or make a new setup.

Data Management

Import .AGSETUP file from AgFiniti or USB

The File Selection screen opens. Use the scroll bar to find the file you wish to import.

Export .AGSETUP file to AgFiniti or USB

Use to transfer setup information from display to display or from SMS and display.



.AGDATA files

- Includes all the necessary data to fully archive in SMS
- Includes recorded operation data
- Equipment Used Products Used
- Marks Logged Boundaries
- Guidance Patterns
- Flexible export options
- Able to export by Grower

Exporting Logged Data

After a field operation is completed, data can be exported to USB or AgFiniti. This can be accomplished by pressing the "Export Data" button within the Data Transfer screen ("Data Transfer screen" on page 29) and selecting the export location. Under the advanced options menu within the Data Transfer screen users can also choose to export by grower and/or at display shut down.

- Pressing the "Export Data" button will trigger all data to be exported based on the last time the export button was pressed. After data has been exported to the external device, it is still retained within the displays memory.
- If previously exported data needs to be retrieved from the display it can be accomplished by pressing the "Export All Logs" button under advanced options within Data Transfer. Export all logs will export all logged data stored on the display.
- Data on the InCommand displays is not automatically deleted after any export operation. Users have the ability to delete old seasons("Season tab" on page 14), which includes the logged data, to free up memory on the display.

Export .AGDATA file

Use to transfer data information to management software from the display to AgFiniti or USB drive.

ISO XML export

This function enables the export of data files in the TASKDATA.XML format.

Supported operations

- Multi-Product and Multi Channel liquid and Granular operations
- Rate Logged with ISO Modules

- Flow Logged with Proprietary Modules
- Single channel/drive planter

-Planter sections are mapped

- Site Verification
- Summary totals

Enable ISO XML Export



Display Backups

A display backup creates an exact clone of a display's current contents. This includes all management information, configurations, and logged data on the display. Backups should be taken at regular intervals through an operating season to minimize any data loss in the event of a display failure. Display backups can only be used on a like display with the same or newer firmware than the backup was created on. Example: a display backup from an InCommand 800 cannot be installed on an InCommand 1200 display or vice versa. When a display backup is restored onto a display it will overwrite all existing data on that display. Users moving data between multiple displays should use an .agsetup file instead of a backup file to accomplish this task. .Agsetup files have the ability to merge and add data to a secondary display so there will be no risk of data loss.

ibk3 files

• System backup file. Backup files are written to USB drive.

Create Backup File (USB drive Only)



.fw3

• Firmware upgrade file for the display and control modules. Install firmware updates from USB drive.



Pressing the Upgrade Firmware button allows you to upgrade the display firmware from the .fw3 file stored on the USB drive. At the File Selection screen, scroll through the list of files on the USB drive until you find the .fw3 firmware file. Highlight the .fw3 file and the box at the upper right-hand side of the File Selection screen shows the version of this file.

Data Management

Press **I** to continue, and the Upgrade screen informs you that the upgrade is beginning. At the Upgrade Ready

screen, press 🗸 🗸

 \mathbb{A} WARNING!: Do not disconnect display power when the upgrade is taking place.





Exports Reports saved on internal memory.

Manual Sync

The Manual Sync button is used when logged data needs exported to AgFiniti Mobile when the display operator is still in the middle of the field operation. Pressing the Manual sync button will prepare data from the active event to be sent to be AgFiniti Mobile. The display operator must disable logging on the Map screen to accomplish this. When the AgFiniti Mobile app is opened, new data from closed or suspended events is automatically checked for and transfers at regular intervals. The Manual Sync button only needs to be used if the customer needs data from the active event and does not want to suspend or close it.

AgFiniti is Ag Leader's platform to provide users with the ability to quickly and easily transfer data, view their display remotely, and take logged data with you when you leave the cab.

AgFiniti Mobile

AgFiniti Mobile is Ag Leader's native iOS^{®1} app. It provides the ability to take maps and summary information from the cab and access it on an iPad^{®2} anywhere. The app allows for a wireless connection to the display, reducing the need for a modem or Wi-Fi hotspot in the cab and providing a simple, direct connection to access data. AgFiniti Mobile also allows for multiple display connections, allowing for operations with multiple displays to have their logged data all in one iPad. Data imported into Mobile will remain there until removed by the user or the app is uninstalled. See "AgFiniti Mobile" on page 36.

AgFiniti Essentials

AgFiniti Essentials is a suite of features that provides additional functionality when using AgFiniti Cloud, as well as providing connectivity between AgFiniti Cloud and AgFiniti Mobile. The main features of AgFiniti Essentials are listed below:

AgFiniti Essentials requires the purchase of an annual license.

- **File Transfer**—wireless transfer of data between the InCommand display and Ag Finiti Cloud. Export prescriptions and management information generated from SMS and have them accessible in the cab using AgFiniti Essentials. Three displays can be registered for each license purchased. This requires an active internet connection
- **Cloud Processing**—AGDATA files in AgFiniti Cloud will be processed without the need for a desktop mapping software, such as SMS. This allows you to view your maps online from any iOS, Andriod^{™3}, Windows^{@4} device shortly after they have been transferred to AgFiniti.
- **Cloud Sync**—AgFiniti Cloud and AgFiniti Mobile sync data. Logged data is accessible on your iPad or on the web without having to go to each display. This also allows you to see SMS data on your iPad as well, such as prescriptions, soil types, soil sampling sites, and third-party display information (such as planting or harvesting data from a no Ag Leader display. AgFiniti Mobile does not require an active internet connection to view maps, just to download them.

Remote Support

AgFiniti Remote Support grants the ability to remotely view a display from the AgFiniti website on supported browsers. This allows for faster, more effective troubleshooting due to the user being able to view the display and not relying on second-hand descriptions. This can result in less downtime and fewer frustrations when issues do occur. This can also help when setting up displays for the first time and provides an avenue for getting help in a more efficient manner. Remote Support requires an annual license. See "Remote Support" on page 45.

AgFiniti Mobile Connection Types

Display Access Point Mode

This connection type turns your InCommand display into a wireless access point that all compatible iPads can connect to. When using this connection type, every time an iPad is within range of your InCommand display, AgFiniti Mobile will automatically download new data while the app is running.

See "Display Access Point connection type" on page 34 for step by step instructions to make this connection type

WI-FI Network

Connection

- Transferring information when both devices are connected to the same home/office Wi-Fi network
- A hotspot (such as a jetpack) device is used in the cab to provide internet

- 2.iPad® is a registered trademark of Apple Inc.
- 3.AndroidTM is a tradmark of Google Inc.
- 4.Windows® is a registered trademark of Microsoft Corporation

^{1.}iOS® is a registered trademark of Apple Inc.

When both the InCommand display and your iPad are connected to the same network, for example your home Wi-Fi network, they will be able to recognize one another and transfer data in the same fashion as the other two connection types. If you already have a Wi-Fi network present in the cab of your vehicle, this connection can be utilized. To use this connection type, the InCommand display and iPad need to be on the same wireless network.

See "Shared Wi-Fi Network Connection" on page 49 for step by step instructions to make this connection type

Cellular iPad as Personal Hotspot

Connection scenarios

• Only Cellular iPads when InCommand is accessing AgFiniti Cloud

Cellular based iPads have the ability to act as a personal hotspot. This allows InCommand to access AgFiniti and directly transfer information to AgFiniti Mobile, both through the iPad's cellular connection and Wi-Fi hotspot. This connection type would be used when needing to use AgFiniti Cloud and AgFiniti Mobile at the same time. For example, you may need to download an .AGSETUP file (for prescriptions) from AgFiniti cloud or to use remote support.

See "Cellular iPad as Personal Hotspot" on page 34 for step by step instructions to make this connection type



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NOTE: Using this connection type to transfer data directly from the InCommand display to your iPad will not utilize your cellular data. The connection is over Wi-Fi and therefore not using cellular data. If you use your iPad to connect to AgFiniti Cloud to download data, cellular data will then be used at those times.

Display Access Point connection type

1. With the Wi-Fi adaptor installed in the display, the AgFiniti symbol will show a status indicator in the top right corner of the display. Press the Status Indicator button followed by pressing the Data Transfer button.



- 2. Press the Networking button
 - NOTE: If the login button is active, you may utilize one of the other connection types.



3. On the Wireless Networking page press the "Access Point Mode" button in the bottom left corner of the screen. This will turn on the Access Point mode and will allow your iPad to connect to this display.

- 4. For Access Point mode to be enabled the display will prompt to be restarted. At this point restart the InCommand display by manually depressing the power button to shut down and then repeat to restart the display
- 5. After the restart the display will be broadcasting a Wi-Fi signal and can now be selected on the iPad.
- **6.** To connect to the display Wi-Fi signal via the iPad, first go Settings button on the device.

7. Select the "Wi-Fi" tab from the left side menu, ensure that "Wi-Fi" on the iPad has been enabled then select the "InCommand" wireless network. This will connect the iPad and InCommand display together and ensure proper data transfer.





General
 Display & Bri
 Wallpaper
 Sounds
 Passcode

35

- 8. Once connected, proceed to open the AgFiniti Mobile app.
- 1
- NOTE: Download AgFiniti Mobile from the Apple® App store.
- **9.** Once AgFiniti Mobile is open, it will automatically attempt to connect to the InCommand display.



AgFiniti Mobile

Do you want to allow "My iPad" to access logged data?

10. Once the InCommand display has been found the display will prompt user to allow connection to happen



NOTE: This should only happen once per device. (wait up to a minute after opening the app for this to occur)

11. After pressing the green check mark the mobile device will begin accepting data from the display as it becomes available. This is indicated by the device symbol within the AgFiniti status indicator on the top right corner of the screen.

At this point your InCommand display and iPad are connected and ready for data transfer. If there are any closed or suspended events present on the InCommand display, they will be transferred to the iPad once the app is opened.

AgFiniti Mobile

After connecting your InCommand display and iPad, you are now ready to start transferring and viewing data.

Once your connection has been established and you have granted access to the display you should see the display connection indicator go from red (not connected) to blue (downloading) to green (connected).



You should see an additional icon that indicates your maps are being built from the downloaded data.



This process will occur automatically and nothing has to be done on your part for data to be imported, just keep the app open while your data processes. Once the process is complete, your data will automatically be mapped.



×

Tap any of these icons for additional sync details.

Once data is present you should see the layout shown:

- A. Menus (page 42)
- B. Filters (page 38)
- C. Help button
- D. Summary Reports ("Add Note" on page 41)
- E. Zoom Options (page 40)
- F. Stat Cards (page 39)



NOTE: An active internet connection is required to see satellite imagery.



Gestures

As with any iOS app, AgFiniti Mobile uses gestures. These gestures will allow you to navigate around the app, select items and make various changes. The most common gestures are outlined below.



Pinch In and Out— Using two fingers touch the screen and pinch in and out to adjust the zoom level of your map. If zoomed out enough field coins will begin to appear which can be selected to see data for other fields.If zooming in far enough, you should begin to see row by row data on applicable fields.

Tap to Zoom—By tapping on the map you can quickly control the zoom level of your map. Quickly double tap with one finger to zoom in and single tap with two fingers together to zoom out.

Tap—Tap items in AgFiniti Mobile to select them. You can also tap on your map to set a manual location within the field and view its specific data in the Stat Cards



Swipe—Swipe your finger to see additional menus on certain items.

Pan—Tap and hold your finger on the screen to pan around your mapped data while maintaining the same zoom level

Tap and Hold – Tap and hold on map to drop notes in AgFiniti Mobile

Filters

To choose different fields, years, or operations you will use the Field/Operation Filters present in the upper left.

```
Creek Bottom All Seasons Planting
```

To choose different options, tap on the area you would like to filter by and choose from the various options present. You can choose All for both the season and operation filters if you would like to have access to all data present for a chosen field.



Use the tap gesture to make selections in the filter.



Use the pinch gesture to zoom your map in and out, and choose from other fields present in AgFiniti Mobile. If zoomed out far enough, field coins will appear, Tap a coin to see available fields.



Stat Cards

Along the right side of the app you will see Stat Cards. Stat Cards will contain information for data currently mapped. Tap on the Stat Card that you would like to view. The Stat Card that is currently mapped will appear orange in this list. The Stat Card will also indicate field average (if applicable), total and location specific values if a position is selected (as shown).



Use the tap gesture to select a location to view information on Stat Cards or select other card.



You can collapse the Stat Cards by tapping on the arrow present next to the Stat Cards and expand it out by tapping on the same arrow again.



NOTE: Tap on a Stat Card's average or current box to view additional details for that specific attribute.

If you wish to edit the legend or map present, you can access the stat options by swiping the Stat Card title. This will display two options, Edit Source and Edit Settings.



Мар Range Mode Equal Points 0.69 863,386 Color Scheme Green-Yellow-Red 49.50 -Number of Ranges - 6 + 31.83 - 49.50 (13.47) 31.80 31.83 49.50 127.1 31.80 31.83 49.50 -29.59 - 29.71 (13.71 4 31.83 31.80 -0.00 - 29.59 (0.518 * 29.71 31.80 -29.59 29.71 -29.59 0.00 brid 2 Hybrid 1

Edit Source will allow you to select multiple years, operations, or events—for example comparing two years of yield data.

Edit Settings will allow you to change the map and legend settings. Mode, number of ranges and the color scheme can all be adjusted here. You can also adjust various map settings such as

the transparency, map type and drawing settings by tapping on the Map button present (shown).

By tapping on the Select Stats option



you can choose which Stat Cards are displayed.

Tap on a Stat Card to add to the list on the right. To remove a Stat Card, tap on the red circle.



NOTE: When changing or resetting Stat Cards, AgFiniti Mobile will do so by mapped operations. For example, if Planting is selected and stats are changed, it will do so only for Planting.



Use the tap gesture to make selections.

d. 🕈	10	-02 AM		1	64N 📰	
Available Stat Items Choose stat items from the a	vailable operations below by selecting the	em (as they wil	be added to the	Selected Stat Items		
ight). Reorganize, delete, or	even add multiple stat items as needed.			Product Name Planting		
Planting	Dearch	Q	C Reset	Population		
Planting				O Date / Time		
Сгор Туре	Dataset Name	Date / Tin	ne 🗸	Singulation Quality		
Differential Status	Doubles	Elevation		Oood Spacing		
Feature ID	Good Spacing 🗸	Implemen	it Name	C Parts (Count)		
Operator Name	Population 🗸	Product Name 🖌		Contraction (Contraction)		
Productivity	Rate (Count) 🗸	Seed Cou	nt			
Seed Spacing	Singulation	Singulatio	on Quality 🖌			
Skips	Speed	Vehicle N	ame			
	-					

Zoom Options



Use tap to make selection.





Access the various zoom options present in the app.



Zoom Current Location—Sets the zoom level to the location the app currently sees. This will only work if you have granted the app access to your location.



Zoom Field—Sets the zoom level to the currently mapped field shown in the Field/Seasons/Operations filter.



Zoom to World—Sets the zoom level to show you ALL fields in the app.

Add Note

Tap and Hold on a specific area of your field to add a note. In the popup, you can enter a description by tapping in the description field. To link an image, tap the plus sign and choose to either take a new picture or link an existing one.



Tap and hold to add a note.



Once the note is created, you can move it by tapping and holding on the note and dragging it to the desired location. You can also delete the note if needed. Only notes added in this way can be edited. Those imported from an InCommand[™] display cannot be altered.

Notes will sync between AgFiniti Mobile and AgFiniti Cloud if you have an AgFiniti Essentials license.

Summary Reports

AgFiniti Mobile provides a quick and easy process to view one or more field(s) data in tabular form. To view tap the

Summary Reports button in the top bar.

Here you can begin choosing which data you would like to include in your report. The reports can be as specific or broad as you would like. You can view a single fields planting information or look at the grain harvest information for all of your fields currently imported into AgFiniti Mobile. To control this simply choose the desired management information in the filters and the report will automatically update.

iPad ᅙ			1:46	РМ			100% 🔳
<			Re	ports			Done
2	Dittmer Farms	~	Home		 ✓ ✓ 	Creek Bottom	~
(+	2015/Planting/Corn						
	Field	Population	Population	Rate	Rate	Area	Date(s)
C	Freek Bottom						
	Subtotal						

Depending on the chosen data, you can expand the 'plus' sign and view product specific information. For example, when viewing a report containing spray mixes applied, the expanded area will include information on the various mix components present in the mix, or view average yield by variety if utilizing variety tracking.



Menu button

图	Satellite Background	0
D	Boundaries	
Ð	Marks/Notes	
	🛗 All Dates	>

Toggle backgrounds—View just the roads

Toggle boundaries on/off—Turn on or off the boundary indicators

Toggle marks/notes on/off—Turn on or off imported marks and notes

Adjust date filter—Adjust date range of marks/notes that are received

Settings options—Change units of measure and cloud sync options

Manage Data—Share InCommand data, free up hard drive space, and manually sync items.



Use the tap gesture to make selection.



To send data via email or third party s

you wish to send out to. Due to size limits, only one fields worth of information can be sent from within the app.



<

Send To

If you wish to view a previously cleared map, you will choose the desired layer and tap Reprocess.



To manually sync data present in AgFiniti Mobile to the AgFiniti Cloud, select the desired items then tap Sync. Can be set to automatically occur from within the Cloud Sync settings options, see "Ag Finiti Essentials -Cloud Sync" on page 42.



Maps are automatically processed and displayed upon import. If you wish to remove data from maps and reports to free up space but still keep it available for sharing, you will use this option.



The delete button will allow you to remove specific maps and data completely out of AgFiniti Mobile. To use this option, you will first need to use the Clear Map button first and remove processed maps.

Delete File(s)



NOTE!: Data brought in from AgFiniti Cloud cannot be sent out of AgFiniti Mobile using Send To or Sync tools. Use AgFiniti Cloud in this scenario.

Ag Finiti Essentials - Cloud Sync

With an AgFiniti Essentials license, all of your data and maps are synced so that your data is always available at your fingertips, regardless of whether you are using AgFiniti Cloud or AgFiniti Mobile. Data can come from:

- InCommand data synced with AgFiniti Mobile
- InCommand, Integra, and Versa displays using wireless transfer
- Any *.AGDATA file manually loaded to AgFiniti Cloud
- SMS Most SMS data can be exported to AgFiniti (including prescriptions, soil survey data, soil sampling sites, and data from 3rd party displays)

Once your data has been synced to AgFiniti Mobile, you will no longer need an active internet connection, giving you the freedom to view maps anywhere. Once the data is present in the app, it can be utilized just like data synced from an InCommand display.

To login you can go to the help icon

located on the main AgFiniti Mobile screen and tap "Login to Your AgFiniti Account"

iPad 🗢							
the first	-						
-							

or tap the menu button and "Log In" and use your AgFiniti login credentials to sign in.



NOTE: When logging in, all AgFiniti Mobile data on the device will be synced to the AgFiniti account used to log in. If you do not wish specific data to be connected to that account, this data will need to be deleted prior to logging in.

After logging in to the cloud, you will see some additional icons next to display connection icon

indicating the status of both connection and syncing



Indicates a connection to AgFiniti Cloud has been made. At this time, AgFiniti Cloud is checking to see what data is not currently on your iPad and is preparing the necessary files to sync. By default, only the current and previous year will be synced.



Indicates that data is being synced to/from AgFiniti cloud. If data is being synced down to the app, once it has completed, you will see the icon indicating maps are being built (same as data imported from InCommand)

Tap any of these icons for additional sync details.

In order to adjust the cloud sync settings, tap on the Menu button - Settings - Cloud Sync



account, providing quicker access to those that need it. (E) Sync to Cloud Using Wi-Fi ONLY—By default, AgFiniti Mobile will sync with AgFiniti Cloud using a cellular connection

if Wi-Fi is available. If this option is enabled, syncing will only occur over a Wi-Fi connection. Transferring over a cellular network could potentially use a large amount of data. Turning this option on prevents this from occurring.

AgFiniti Display Settings





Press the login button and enter in the AgFiniti account user name and password. After entering proper credentials the display will be logged into AgFiniti Cloud and the user can access services available on the account. Once logged into an AgFiniti account the display, the display becomes registered to the users AgFiniti account and will automatically login on display startup if internet access is available.

Logout and De-register Display





Logout—This will log the display out of the current AgFiniti Account. If the user does not want to automatically connect AgFiniti Cloud on startup they must logout. Logging out of an AgFiniti account does not deregister the display from an AgFiniti Account.

Deregister Display—When logged into AgFiniti Cloud the user can deregister the display from their Agfiniti account. This will unlink any AgFiniti licenses tied specifically to the display.

Mobile Management



Mobile Management
Deauthorize All

The "Deauthorize All" button will deregister any mobile devices that have been authorized to access the display's logged data.

File Transfer

To use file transfer on the InCommand display, the following requirements need met:

- 1. User account created at www.agfiniti.com.
- 2. Annual license purchased and activated.
- 3. InCommand display connected to internet source via WI-FI adaptor.
- 4. Be logged into AgFiniti account on InCommand Display.
- 5. AgFiniti will become an available option when an import or export function is chosen from the data transfer page.
- 6. Press the AgFiniti Symbol to export to AgFiniti Cloud.

Remote Support

To use remote support on the InCommand display, the following requirements need met:

- 1. User account created at www.agfiniti.com.
- 2. Annual license purchased and active.
- 3. InCommand display connected to internet source via WI-FI adaptor.



- 4. Be logged into AgFiniti account on InCommand Display.
- 5. From www.agfiniti.com a user can remotely view the display.

Remote Support Pre-authorization



Pressing the remote support button will generate a 10 digit code that can be verbally communicated to remote viewer to initiate the viewing session.



Remote Support Permissions Options



When a remote view session has been initiated the status bar at the top of the screen will turn from blue to green.

Cellular iPad as Personal Hotspot Connection

1. To enable Personal Hotspot mode on the iPad start by going to settings.

2. Select Personal Hotspot from the left side menu and enable by pressing the on/off switch from the top right side. Once enabled take note of the Wi-Fi password as it will be needed in the next step.



Note: This password can be changed if desired.

3. On the InCommand display, with the Wi-Fi adaptor installed, the AgFiniti symbol will show a status indicator in the top right corner of the home screen. Press the Status Indicator followed by Data Transfer.

4. Press Networking.





5. On the Wireless Networking page select the iPad from the list. If the iPad isn't available from the list try turning the personal hotspot mode on the iPad off and then back on.

- 6. At this point you will be prompted for the password from step 2. Enter the password and press connect.
- 7. The display will then be connected to the iPad.
- NOTE!: Repeat steps 1-6 each time the iPad is brought into the vehicle.
- **8.** On the iPad, open the AgFiniti Mobile app. Once the AgFiniti Mobile is open, it will automatically attempt to connect to the InCommand display.
 - NOTE: Download AgFiniti Mobile from the Apple App store.

- **9.** Once the InCommand display has been found the display will prompt user to allow connection to happen.
- 1

NOTE: This should only happen once per device.

10. After pressing the green check mark the mobile device will begin

accepting data from the display as it becomes available. The AgFiniti Status Indicator will show a device symbol within it on the top right corner of the screen. Note: If display is logged in to AgFiniti Cloud a cloud symbol will also appear in the AgFiniti Status Indicator.

At this point your InCommand display and iPad are connected and ready for data transfer. If there are any closed or suspended events present on the InCommand display, they will be transferred to the iPad once the app is opened.



Wireless Networking

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Upgrade Firmware

> View Files

Advanced Options

Finiti Ag Leader

Shared Wi-Fi Network Connection

1. First connect the InCommand display to the wireless network. With the Wi-Fi adaptor installed in the display the AgFiniti symbol will show a status indicator in the top right corner of the display. Press the Status Indicator followed by Data Transfer.

2. Press Networking.

3. On the Wireless Networking page, press to select the desired network. This will prompt for a password, if needed, then allow you to connect to the network.

4. Connect the iPad to the same WiFi network by going to Settings.





Data Transfe

tup file with setup data

Create an AgData file with logged data

Co Import

Export Setup

Export

Export Export automa stored reports.



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AgFiniti

- 5. Select the "Wi-Fi" tab from the left side menu followed by highlighting and connecting to the "Home Network" wireless network.
- 6. Both the display and the iPad should now be on the same network.

- 7. Open AgFiniti Mobile app on the iPad.
 - NOTE: Download AgFiniti Mobile from the Apple App store.
- **8.** Once the AgFiniti Mobile is open, it will automatically attempt to connect to the InCommand display.
- **9.** Once the InCommand display has been found the display will prompt user to allow connection to happen.
 - NOTE: This should only happen once per device.
- 10. After pressing the green check mark the mobile device will begin accepting data from the display as it becomes available. The AgFiniti Status Indicator will show a device symbol in the top right corner of the screen. Note: If display is logged in to AgFiniti Cloud a cloud symbol will also appear in the AgFiniti Status Indicator.

At this point your InCommand display and iPad are connected and ready for data transfer. If there are any closed or suspended events present on the InCommand display, they will be transferred to the iPad once the app is opened.





Events

Events are used to track field operations. New events can be created at anytime and therefore a physical field can be broken into many events or recorded under one. An event contains all coverage maps created while that event was active. Events are automatically named by date and time.

The display can be run in two different modes:

- **Traditional mode**—requires user to specify a Grower, Farm, and Field for the Event. The display associates this information with setup files and logged data. When these files are reviewed or utilized in the future, it provides the operator with a greater depth of information.
- Events Only mode—minimizes the setup process so that the display is ready to run in the field with the least amount of setup (just a few button presses).

Field Operations

To start a field operation, press one of the field operation apps from the home screen. This display has the ability to use guidance, tillage, and surveying configurations without extra equipment. Additionally. planting and application configurations can be created to track products without modules. The Field Operation wizard will walk through all the steps needed to begin a field operation.

Select Field Operation app and follow the Setup wizard.



You must have already created the following:

- Grower, Farm, and Field if "Enable Management" is checked, otherwise the display will track operations based only on events.
- A Season Setup within Management tab.
- A Product (if you are creating an Application or Planting Field Operation) at the Setup Product tab.
- An Operating Configuration at the Setup screen's Configuration tab. This Operating Configuration consists of Equipment, Vehicle, Implement, Controller (optional), Tank (in Application), and Ground Speed Source.

All of these are referenced by the Field Operation wizard during the Field Operation setup process.

Map screen

- A. Menu
- B. Area Covered
- C. Path Indicator
- D. Speed
- E. AgFiniti Status
- F. Diagnostics
- G. GPS Signal Indicator
- H. Legends
- I. Markers
- J. Field Operations
- K. Guidance
- L. Event Summary
- M. Map Views
- N. Split-Screen (InCommand 1200 Only)
- **O.** Universal Terminal
- P. Video button
- Q. AutoSwath
- R. Logging
- S. Vehicle Icon

Heading Detection

InCommand displays have built in functionality to establish and keep the correct direction of travel when using GPS receivers that do not have a trusted heading source from an internal compass or steering controller. For this functionality to work the user must first establish a forward direction of travel. The direction of travel is set automatically in the background, after acquiring GPS, based on the vehicles first movement after starting an event.

Any time the vehicle or icon is in the reverse direction and data is being logged, an audible alarm will sound until the vehicle/icon is driving in the forward direction again.



Heading Change Button



Any instance in which the vehicle icon appears to be upside down or rotated 180 degrees, it can be fixed with the Heading Change button. The Heading Change button can be accessed by tapping anywhere on the center of the mapping screen and pressing the icon on the lower left corner of the screen. Data logging must be turned off for the Heading Change button to work.



Disable/Enable Heading Detection



✓ Use Heading Dectection

With Heading Detection disabled, the icon will always follow the GPS heading. When using a Harvest configuration, Heading Detection is automatically disabled regardless of the state of the enable/disable button.

Vehicle Icon



Vehicle Icon—When Zoomed Out—This gold colored triangle indicates the display is in zoom to extent mode. When in zoom to extent mode the vehicle implement does not appear but logged data will still populate on the map.



Vehicle Icon—logging—If the vehicle is logging, the implement icon appears as a green bar behind it.



Vehicle Icon—logging (with all sections ON)—If the vehicle is logging data from an implement split into sections, (for instance during a planting or application operation), then these sections appear in the implement icon.



Vehicle Icon—not logging—If the vehicle is not logging data, then the implement icon appears as a grey bar.



Vehicle Icon—Master Switch Off—When the master switch is off the vehicle will show a thinner red bar.

Master Switch Status

This button shows if the Master Switch is on or off. It is toggled by a master switch or a switch box.



Master Switch Status - ON (GREEN)

Master Switch Status - OFF (RED)

(O) AutoSwath button—turns the AutoSwath feature on and off.



AutoSwath - ON



AutoSwath - OFF

(P) Logging button



Logging - ON



AutoSteer button

The Engage icon status of the AutoSteer system. The appearance of this icon displays the following:



AutoSteer is ON and ready to use.





AutoSteer is OFF and unable to engage.

Map Legend tab

Press the Map Legend button at the top of the Mapping toolbox, and the Legend appears, either for rate, coverage, seed monitoring, previous operations, or other.

Map Toolbox

Legend Settings

The Legend Settings screen allows you to change the default legend. On the map legend tab, press anywhere on the legend and the legend settings screen appears.



1 NOTE!

- The Legend Settings screen can also be accessed by pressing the Edit Legend button on the Setup screen's Product tab.
- Legend settings changes that are made at the Legend Settings screen will affect all regions.



The Legend Settings screen includes the following items:

• Attribute

Appears at the top left of the Legend Settings screen. Attributes shown for Harvest include Yield and Moisture. The Rate attribute is shown for Planting and Application operations. You can adjust the color scheme, spacing and ranges as they appear on the map screen, by using the buttons described below.

• Average

The Average button changes the average rate for the legend. Press to specify the average of the ranges shown on the map legend.

• Range Spacing

The Range Spacing button changes the difference between the rates in one color range. Press to edit the legend range spacing value, which is the total number of units represented by a particular color.

• Ranges

The Ranges / **v** change the number of range increments displayed in the legend.

• Color Scheme

The Color Scheme can be modified by using the drop-down list. Choices include the following:

• Green-Yellow-Red

‴ 🖸 🖬 💅

- Single Hue (blues or greens)
- Rainbow
- Reset to Default Legend

Resets the legend to the default settings.

• Automatic Legend

If the Automatic Legend check box is selected, the average automatically sets itself to the field average and updates as the field average changes.

• Reset to Default Legend

Press the reset legend to the system default.

• Save as Product Legend

Select the Save as Product Legend check box if you wish to set the current legend as the default legend for all regions of the same product.

Map Options



Here you can toggle mappable items, load references, or clear map. Press

the Legend Setup ______ and the Map Options screen appears.

•Clear Map

Permanently removes on-

screen map from the active field operation, but the log data will still be exported to the USB drive.



WARNING!: Once you clear the map, this information cannot be retrieved.

• Load Reference

Loads a list of maps of previous operations

Legend		Demonstratio	n	Seed 1
Seed Moni		Map Options		
Popula 105 +	🔽 Data	Grid	Boundary	
95 - 105 70 - 95 0 - 70	Travel Directions	Row Outlines]	
00				
3				
Follow	√iew			5
Perspe	ctive 🔻			
Clear M	Load Reference			Map Shift
	NN 339 💻			

1.75 5.5

performed in that field. For each operation, you can view As-Applied or Coverage attributes; and Varieties if you are performing a Planting operation.

Map Shift



Map Shift is used to shift the onscreen map and account for time base inaccuracies with lower accuracy GPS receivers. This is done by doing a quick survey and creating a reference point. Any time the user would like to adjust the map to fix GPS drift inaccuracies they will go back to the reference point and perform a survey to

shift to the current position.

Map Shift General Guideline

For Map Shift to be successful it is suggested that a reference point be set before beginning a field operation. That way any time the vehicle leaves the field or is shut down for an extended period of time the reference point can be used upon returning to the field operation.

Enable Map Shift



With the map shift option checked, the map shift icon

will become available when in full screen view on the

mapping screen.

Shifting the Map

- 1. Press the map shift icon to access Map Shift Options.
- 2. Determine a good location to create a reference point. For Map shift to work properly it is vital that the GPS receiver be able to get back to the exact same point each time a shift is required.
- **3.** Once a spot is located press "Set" on the Map Shift options page to begin the 10 second survey
- 4. One the survey is complete the reference point will be set. On the Mapping Screen the reference point is show by the blue pin drop.



Reference Point Set



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- 5. When a map shift is required go back to the set reference point and make sure the GPS antenna is back in the original location.
- 6. Access the Map Shift Options menu and press the "Shift" button.



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- 7. "Shift" will start a 10second survey and update the map with the new current position
- 8. Any time a reference point or shift needs cleared it can be accomplished via Map Shift Options.

 \triangleleft **After Map Shift**

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Mapping Features

In a planting operation the InCommand 1200 display is capable of mapping information based on individual rows.

- A. Dots in the legend indicate other attributes are available to map. Swipe to show different attributes.
- **B.** Screen shows row by row mapping. Display shows and logs row by row planting attributes in any view when paired with Ag Leader Seed Monitor Module.
- **C.** Travel direction indicators automatically populate at intervals when operating. This feature can be toggled on/off in Map Options.



Map Views and Split Screen

The InCommand 1200 has the capability of showing multiple views at the same time from the map screen. This has multiple uses like showing guidance in perspective view and zoom extents view at the same time, splitting the screen between guidance and Universal Terminal, or watching two products at the same time like planting and liquid application.

- Maps can be selected individually from the legend drop-down (A).
- Map view can be changed by tapping on the mapping icon (B) in the task bar.



Map Views



Setting the Follow View mode

=>	c	₹ >	
Follow View		Follow View	
Perspective V	or	Top-Down 🔻	



North Oriented View(B)—Zooms the map out to the full extends of the field boundary or mapped area and orients the map north regardless of the vehicles direction of travel.



Universal Terminal Split Screen



By pressing the UT button (A) from the map screen the display will split the screen between Map screen and Universal Terminal.



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Split Screen Advanced Seed Monitoring

Split Screen Camera

video page.



When using a Seed Monitoring Module, pressing the advanced seed monitoring button (A) will split the screen between the active map and the advanced seed monitoring page.

With Cameras attached, pressing the

between the active map and the

🛛 Rock

Washout

Weeds

Trees

2

E

Markers tab

Markers are a collection of point objects that are available on the Map Markers tab of the Mapping toolbox. Map markers allow you to map points on the go in order to identify specific features within a field. Press an individual marker to indicate a Map Marker on the Map screen.

If all of the Markers that you created are not immediately visible in this screen, swipe the tab to view more that you created.

Edit Markers								
Marker Sets:				9	6.4	10.0		∋C ~
Pressing allows operator to create, name,	Ma × Tree	rkers	<u></u>	Mar	ker M	anageme	ent	
Markers:	C Swiss	Marker Sets All Markers		•	Z]		
• Press to add a marker.	A Rock	Markers Tree Weed			4]		
Press to edit a marker.		≥ A Rock						
Press to remove a marker.		•					Load Reference Marks	
• If you have numerous map icons, you can			UT	"				🚖 🍙
cycle through them by pressing /	\mathbf{v}							

• When creating or editing a marker, check the Georeferenced Note button if you wish to add a Field Note that is referenced to the current GPS position when that marker is used.

Operator Selection



1. Press Select Operator button.

Allows you to select a machine operator from the drop-down list. Machine operator information is logged with all field operations. Operator information may be entered in Management Setup.

- 2. Choose the operator from drop-down menu.
- NOTE: Checkbox will require a password to be entered upon start up of the display.
 - Press 🗸 .
 - 3. Enter password. Press 🗸

The operator will now be selected and permissions active.

- If operator is changed in mid operation, the user will be prompted to continue or suspend event.
- Operator selection will show each time at startup if the "Show Operator at Startup" button is check-marked.

		●* D€ mỹ ⁴⁴
	Operator Selection	
	Select Operator	
	Options Show Operator Selection on Stratup Note: If the active operator has a password, the operator selection will always be displayed on startup.	
Ti	~	× ce

Operator Log Out

Users that are both a Manager and Operator can logout which locks Setup and USB access and an operator must log in before an operation can be performed.

Menu Buttons

2

	Menu button—Allows quick access the regularly used management and setup features without suspending an operation or leaving the map screen.
🕆 Home	Home button—Suspends the current event and returns to the Home screen.
🔒 Field	Field button —Used to change fields and events from the map screen. Takes user to the management selection portion of the Field Operation wizard.
Products	Product button —Used to change products or hybrids in the middle of a field operation. Takes user to the product selection portion of the Field Operation wizard.
Region	Region button —Used to subdivide a field into smaller sections. The region in which data is currently being logged is listed on the Region button. A new region can be created at any time as you are performing a field operation. To change between or add a new region to a field, press the Region button and

follow the on-screen instructions.



Event

Event

The Event Options screen allows operator to change:

- **Event Name**—Select the event to be edited in the drop-down menu. An active event will be preselected when the Event Options screen is opened.
- **Suspend Event**—Pressing this button suspends the current field operation. The Home screen then appears as before the creation of a field operation.
- Clear Map Bounds—Press to clear map bounds for the selected event.
- Close Event—Pressing this button ends the current field operation. The Home

screen then appears as before the creation of a field operation.

A closed event cannot be re-opened and will not show up in the Event Selection screen. A user can manually close Events or be prompted to close events.

• Prompt to Close Events—Check this to be prompted before an event is accidentally closed.

Settings

Settings button—provides quick access to:

- GPS settings
- Steering settings
- Lightbar settings
- Configuration settings
- Brightness/Volume

4	Steering: Manual Guidance Receiver: (Autodetect) Operator Presence Alarm 15 minutes Lightbar Settings Require Differential Correct or Guidance	Settings	Configuration Settings 1009 Volume 709	
Ⅲ				

		0.16	10.0		
Leg	end Contraction of the second s	Event C	Dek1 Options		⊙1
Vari Pioncer Dek1	Event 2015-09-02_12:44:02			Мар	Clear > Bounds
	Suspend				
	Close				
	Prompt to Close Events				
B	III UT 9	N 1			
Automatic Swath Control

	Configuration Settings	Automatic Swa Control	ath	
The Automatic Swath Control fea sections off and on automatically the following conditions:	ture turns based upon	Au	tomatic Swath Control	@2 0€ «
 Entering and exiting interna field boundaries. 	l and outer	Planting Applincation Outside Boundary Option	Coverage Option	Look-Ahead
 Entering and exiting previou areas within a field. 	usly-applied	• Keep Unchanged	Minimize Skip Minimize Overlap	Settings
Automatic Swath Control can be by the AutoSwath button on the hand side of the Map screen.	toggled on/off lower right-		User Defined	
To adjust AutoSwath settings, go Configuration Settings screen, pre Automatic Swath Control button. that appears, options are:	to the ess the At the screen	-		

Outside Boundary Option

Select one of the two options to determine system behaviour when a section exits a field boundary.

Coverage Option

In the Coverage Option area, you must choose between three options:

Minimize Skip

Turns off the implement section after the entire section is fully inside your coverage area.

This prevents the possibility of skips.

Minimize Overlap

Turns off the implement section when that section first enters your coverage area.

This prevents the possibility of overlaps.0.

• User Defined

Allows you to choose what percentage of the implement section is within the coverage area before that section turns off. For example, if you choose 50%, then the section will switch off when half of it is within your coverage area.

• Turn-On Look Ahead

Determines how far ahead the system looks to turn the sections back on. This compensates for delay in the system when the implement sections are turned on.

• Turn-Off Look Ahead

Determines how far ahead the system looks to turn the sections off. This compensates for delay in the system when the sections are turned off.



Boundary tab

Press the Boundary button on the Field tab to access the Boundary Options screen.



On the Boundary Options screen, you can Import Boundaries, Export Boundaries, and Clear All Boundaries.

- Pressing ____ on the Boundary Options screen opens the Boundary Settings screen.
- Highlighting an existing region and pressing — on deletes that region.
- Use Import and Export buttons to move regions to and from USB drive.
- Press Clear All to permanently delete all Boundary information for that field.



WARNING!: Once you clear this information, it cannot be retrieved.



Create Boundary

Boundary Settings

Pressing the Start button opens the Boundary Settings screen.

Underneath the Boundary Type area, you have the choice of creating either an Outer Boundary or an Inner Boundary.

- Outer boundaries delineate the borders of an entire field.
- Inner boundaries mark specific features within that field, such as waterways or buildings.
- Choose whether to create either an Outer boundary or Inner boundary by pressing one of the two Boundary Type buttons.
- 2. If you chose to create an Inner Boundary, use the Region Type drop-down menu to choose the type of boundary. Choices include:
 - Roadway
 - Body of Water
 - Waterway
 - Buildings
 - Undefined
- **3.** The Boundary Offset feature enables mapping a boundary at a user-defined distance to the left or right of the GPS antenna center line. If desired, specify a

Boundary Offset distance by choosing a direction and distance from the GPS antenna center line.

- 4. Press 🗸 to start the boundary.
- 5. During the creation of a boundary, the Pause/Resume button and Stop button appear at the top of the Field tab.
- 6. Press the Stop button to complete the boundary. At the Boundary screen, choose whether to Save, Resume or Discard the boundary.

Pause Boundary

When creating a boundary, you can use the Pause Boundary button to create a straight line between two points. To do this, drive the vehicle to a point, press the Pause Boundary button, then drive to the second point. When you press the Resume Boundary button, a straight line is created between your current point and your pause location.







Headlands

Press the Headlands button on the Field tab to access the Headland Options screen.



(KA)

ATTENTION !: A Field Boundary is required to create a headland.

ATTENTION!: For headland alarms to work, a guidance line must be loaded.



- A. Enable Headlands: Use checkbox to turn Headlands functionality on and off.
- B. + Add HeadlandC. Load a Headland
- D. Edit Headland
- E. Alarm Settings



F. Active Area



Press _____ on Headlands Options screen.

Select Headland Type from drop-down box.

Headland Types

All-Around

Offset Implement Width

Number of implement widths used to set the headland width.

Offset Distance

Distance used to set headland width.





Top Bottom

• Offset Implement Width

Number of implement widths used to set the headland width.

Offset Distance

Distance used to set headland width.

Heading

Used to generate boundary, headlands are created perpendicular to heading

Scaling

Sets the amount of variation that is allowed (from perpendicular) to include part of field boundary in the headlands.

• Use AB

Select AB line to set heading for determining headlands.

• The A shows the heading used for Headland creation.

Press to accept.

Driven

- 1. Select Driven from drop-down menu and press to continue.
- 2. Press 🛛 🕂 on New Headlands screen.
- 3. Input Headland Offset Distance and Direction (Left or Right). Press to accept.
- 4. Drive Boundary:



pause.



resume recording after pausing.



C. Load Headlands

Press 🎭 button.

Select a headland from list. and press volume to load selected headland.

- A. Distance to headland alarm
- **B.** Headlands identified by blue line when active

D. Edit Headlands

Press Edit Headlands button.

Select a headland from list and press volume to load selected headland.

This screen will vary depending on type of headland.

E. Headland Alarm Settings

Press 🛕 button.

Alert Distance

Distance from approaching headland at which display will warn user of upcoming headland.

• Alert Duration

Time length from approaching headland at which display will warn user of upcoming headland.

- Audible Alarms
 - Approaching Headland.
 - Crossing Headland Boundary.



Topography

Press "Topography" button to enter the Topography screen which allows user to setup Topography functionality.

The display allows you to record points that can be used to make a reference layer that is relative to the elevation throughout the field. This can provide you with valuable information in regards to the highs and lows of a field when you may not be able to visually tell with the naked eye. Surveying and Tiling operations will probably benefit the most with respect of where to place the mains and laterals in a field.

You can also import data from mapping software such as SMS Advanced via .agsetup files.

ATTENTIONI: Requires RTK GPS signal to collect the accurate elevation data.

Topography screen

You are allowed to have multiple topographical elevation surveys for the same field. This can be useful for different applications, for example:

- One topographical survey that is for the entire field. This will give you a greater perspective of the whole field.
- An additional topographical survey, driven at very dedicated portion of the field. This would allow you to have greater elevation detail in certain areas if you need it.

By default the naming that is generated in the display will be Date/Time based. You can export surface elevation data from software packages like SMS Advanced into the display, and those will be tagged with the field name and the date exported (both examples are in the screen shot).

You can also add points to existing topographical surveys and save them.

Only one topographical survey can be active at a time. When exported as an .agsetup or .agdata file, this will be the survey that is exported. Non-active surveys will stay in the display. At any time you can remove an topographical survey, and collect a new one.

• New Survey button

Press to create a new topographical survey

• Add to Selected button

Press to add to an topographical survey

• Minus (-) button

Press to delete a topographical survey

• Enable checkbox

Press to turn topographical reference layer on/off (Enable checkbox functions the same as Topography checkbox in Map Options screen - shown below.)

• Set Active

Select the desired topographical survey from list and use button to set as active.



Field	
Moundary	
eadlands	/
Topography	1
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The topography layer can be turned on/off as a reference layer during any operation using:

- Enable checkbox on Topography screen (shown above).
- Using the Topography checkbox on the Map Options screen.



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If you have RTK GPS reception, you are allowed to collect an elevation survey. This will allow you to collect the Latitude/Longitude and elevation values as you traverse the field.

A point will be dropped every 10 ft as you drive regardless of speed, or direction. If you are collecting during operations like planting or application using autoswath, it will also log points outside the boundary of the field (i.e. through a grassed waterway) to get the most information throughout the field.

During collection of an elevation survey, points will be logged to the file every 10 ft. An on-screen visual will appear in the form of a single black dot (**A**) every 100 ft.



ATTENTION!: It is critical that the GPS Antenna to ground measurement is



correct in your configuration, any error in this measurement, will add to the error in the data logged.

Field

Headlands

6

Boundary

6

The following are suggestions to get the best possible elevation survey for a given field. Following these recommendations will provide the best results for your field.

- Keep swaths in the field to 62 ft or less, the closer the better.
- Driving a dedicated route at the lowest or highest points in a field (i.e. lengthwise of a grassed waterway, or at the top of a ridge) then traversing the field in regular swaths will provide the best detail of the field.
- If surveying with the tile plow antenna, ensure that the plow is in the fully raised position.
- Driving too fast with mounted plows, can cause bouncing and affect quality.
- Surveying with harvesting equipment can provide streaked maps as the hopper filling and unloading can affect the height of the vehicle, and therefore antenna.



needed.

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If you forget to stop logging as you leave the field, you will be prompted with the message that data collection is still active, and be given the option to continue logging, or end operation.

In Odd-shaped fields, the surface rendering of the elevation will connect areas even if you haven't driven through that area.

GPS Setup



Steering

Manual Guidance—Select this to perform guidance by lightbar while manually steering the vehicle.

ParaDyme/GeoSteer—Integrated steering system that can be used with a wide range of machines.

OnTrac3—Assisted steering that is mounted on a machines steering wheel.

SteerCommand—Integrated steering system that can be used with a wide range of machines.

Pressing <u>next</u> to the Steering options opens the guidance system settings for the selected guidance system.

5	GPS/Guidance Setup	
	Steering	
	Manual Guidance 🔹 🔧	
	Receiver	
	(Autodetect) 🔻 🔍 🚱	
	Operator Presence Alarm	
	15 Minutes	
A	Lightbar Settings	
	Require Differential Correction for Guidance	
\leq		2
THE		fan

Pressing 🔍 next to the Receiver options opens

the selected receiver's specific settings. Populated settings vary from one reliever model to the next.

- Receiver—Set type of GPS interface protocol to Autodetect, Serial, or CAN.
 - Break Detection—Opens force GPS connection. This allows force connection in the display when a receiver is set to a higher baud rate than supported by the display. After selecting "force GPS6000/6500 connect", user must select reset to defaults in order to configure and use the receiver.
- **Operator Presence Alarm**—The Operator Presence Alarm disengages guidance control if the operator does not have any interaction with the display for a specified period of time. Use the dropdown menu to specify the period of time before guidance is automatically disengaged.
- Lightbar Settings—Set lightbar spacing, mode, and LED brightness.
- **Required Differential Correction for Guidance**—When unchecked allows guidance to operate without differential correction.



NOTE: In order to use guidance with the display, you must have a GPS receiver capable of a GPS output rate of 5 Hz or more.

Lightbar Settings



Spacing—Enter the distance represented by each square of the lightbar ½–6 ft (3–182 cm).

Mode

- **Chase**—Center the vehicle by following the indicator lights.
- **Pull**—Center the vehicle by turning in the opposite direction of the indicator lights on the lightbar.

Internal Lightbar—Check Enable to utilize the internal lightbar.

External Lightbar LED Brightness—If

applicable, press for a present of the brightness of the LED lights on the optional L160 external lightbar. The number 1 is the dimmest setting and 10 is the brightest. Default setting is 5.

			∞≈ ⊡€ ∞%"
42	Lightba	ar Settings	
T	Spacing 6 Mode Chase	Internal Lightbar Fable External Lightbar LED Brightness 1	Ke

GPS Button

During your field operation, the GPS (Status Indicator) button in the upper right-hand side of the Status Bar should appear green, which means you are receiving a differential GPS signal. If this icon appears yellow, you are still receiving GPS but are not receiving a differential signal; and if it appears gray then you have lost GPS. In either case, you should check your GPS settings.

Guidance/Steering, Lightbar Settings, and Required Differential Correction for Guidance.

Serial GPS Settings



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NOTE: Default settings for the 6000/6500 receivers should not need to be adjusted from factory settings.

Differential Source—Select choice of GLIDE, WAAS/EGNOS, TerraStar®, RTK External, RTK. Options available are based on receiver type and unlocks.

Differential Source Wrench Icon

Pressing the Differential Source Wrench button opens different settings screens, depending on the differential source selected.

Age of Differential—Displays the elapsed time since reception of last differential correction signal. The Age of Differential button is only functional when GPS is connected.

StableLoc checkbox—StableLoc maintains accurate steering – even when your correction signal is temporarily lost – by seamlessly transitioning to the next available signal source.

				©* D€ ๗ฃ๊
General	GPS Port A (Connected) Port B	S Settings		
Tille	Differential Source RTK Age of Differential 60 StableLoc StableLoc Error Limit		Features Upgrade Firmware Firmware Reset to Defaults MMEA Talker None	Bance

When the signal is restored, the system will then transition back to the higher accuracy source, eliminating position jumps. Press to enable.

StableLoc Wrench Icon — Opens StableLoc "WAAS/EGNOS" fallback enable/disable setting. This allow SBAS

correction to be used as fallback for StableLoc. Setting is enabled by default. Disable setting if region does not provide SBAS correction source (such as WAAS/EGNOS).

StableLoc Error Limit (RTK & TerraStar only)—When using StableLoc, select the error limit at which the system will no longer allow steering. Select + or – button to adjust the limit. If your error limit is "4 in (10 cm)" and the system accuracy reaches that limit, steering will no longer be allowed until the error decreases. If set to "none" accuracy of the differential source will not affect the ability to autosteer.

Reset to Defaults—Press the Reset to Defaults button to restore receiver settings to the factory default. This will remove all custom settings.

NMEA Talker—This button disables the GLONASS prefix in the NMEA messages. If using the GPS receiver with legacy displays or a device that does not support GLONASS messages, uncheck the box.

WAAS/EGNOS Settings



Serial Number—This box shows the serial number of your receiver - used to purchase TerraStar subscription.

Automatic Tuning check box—Receiver will automatically select the strongest frequency. Frequency drop-down box will be grayed out when this is selected.

Frequency—In the Frequency drop-down list box, select the geographic region where you are located. Only uncheck automatic tuning when directed to by support (used to adjust tuning).

Convergence Threshold—The receiver uses the standard deviation of the solution to determine when the TerraStar position has converged. The receiver will label the TerraStar solution as "converged" when the horizontal standard deviation reaches the Convergence Threshold setting. Relaxing the convergence



threshold shortens the time before a TerraStar solution is reported as converged. However, it does not alter the absolute behavior of the solution.

NOTE: The use of TerraStar[®] differential requires purchase of a subscription from your Ag Leader dealer. Settings related to using satellite differential correction vary based upon your geographic location. Setup details are explained on the following pages. More specific information can be obtained through you Ag Leader dealer. You will need to know serial number when contacting Ag Leader to set up the receiver.

RTK External Settings



Setting the differential source to RTK External enables GGA NMEA message output on Port B at 1 Hz.

Change the Radio Baud Rate to match the External Radio connected to Port B.



RTK Settings - NTRIP



NTRIP

- Server
- Username
- Password
- Steams
- Disconnect/Connect to the NTRIP
 Network
- Info see "Info button" on page 65

Cellular

- IP Address indicates a connection to the Internet
- Modem Status



NTRIP Server

- Server Address
- Port

Server Address and Port are provided by the NTRIP Network.







Cellular Settings

- APN
- Username
- Password

APN, Username and Password are Network provided settings. Contact the Cellular provider for this information.





Info button

- Stream
- Format
- Format Details
- Navigation System
- Network
- Authentication

The information shown on this screen is provided by the NTRIP Network.



RTK Settings - 400 MHz



Channel Spacing—Use drop-down menu to select Channel Spacing

Frequency



Press button to add a Frequency



Select frequency and press button to delete selected frequency.



Select frequency and press button to make selected frequency active

RTK Settings - 900 MHz







Frequency



Press button to add a Channel



Select channel and press button to delete selected channel



Select channel and press button to make selected channel active



Upgrade Receiver



Display will upgrade receiver.

Press **X** to return to previous screen without updating receiver.



Serial Port Settings Port A tab



The Serial Port Settings screen is the place where you can adjust GPS output. The appearance of the Serial Port Settings screen varies depending upon your model of GPS receiver.

Output Baud Rate—Displays the speed at which the receiver communicates with the display. For optimal performance, the GPS baud rate is set at 115200.

GPS Position Rate (Hz)—Represents the cycles per second (shown in Hz) that the display receives position information from viewable satellites (10 Hz minimum).

NMEA Messages—These checkboxes represent various communication protocols or formats that have been set by the National Marine Electronics Association (NMEA), and used in information "strings" or sentences output by the GPS Receiver. At present, the display only requires two NMEA Message formats: GGA and VTG.

- GGA: position in longitude and latitude.
- VTG: ground speed
- GSV, GSA: required to view the Satellite Plot, but are not required for GPS information.

Pate			
Thate	GCA	(Position)	
Rate (Hz)			
•	VTG (Speed)	GSA	
	GLL	ZDA	
	GSV	☐ RMC	
			P
	Rate	Rate NMEA Messages	Rate NMEA Messages Rate (Hz) VTG (Speed) GCA (Position) GSA GL RMC RMC

• GLL, ZDA, RMC, MSS: Leave these other NMEA message formats unchecked, unless you are connected to a third-party monitor and have been directed to do so.

Port B tab



The appearance of the Port B tab is similar to Ports A.

- **GGA(Legacy)** —Shortens the decimal precision of the GGA message for connection to legacy equipment.
- **GGA(Position)** —Gives increased precision to the GGA message. Most new displays require this turned on.

General Port A (Connected) Port B Output Baud Rate NMEA Messages GPS Position Rate (Hz) If GGA (Position) If GCA (Legacy) Image: Constraint of the state of the s	General Port A (Connected) Port B Output Baud Rate Image: Connected of the state of the st	5		GP	S Settings		
Output Baud Rate GPS Position Rate (Hz) VTG (Speed) GSA GLL CSV RMC	Output Baud Rate GPS Position Rate (Hz) GPS Position Rate (Hz) GCA (Legacy) GCA (Le	General	Port A (Connected)	Port B			_
GPS Position Rate (Hz) VTG (Speed) GLL GSV RMC	GPS Position Rate (Hz) VTG (Speed) GLL GSV RMC	Out	put Baud Rate		NMEA Messages		
GPS Position Rate (Hz)	GPS Position Rate (Hz) VTG (Speed) GSA GLL GSV RMC			•	GGA (Position)	GCA (Legacy)	
		GPS	Position Rate (Hz)	•	VTG (Speed)	GSA	
				_		ZDA	
	2				GSV	Г ВМС	

GPS Information

To access diagnostic information about the GPS signal, press the GPS (satellite) button that appears in the in the upper lefthand side of the Status Bar. GPS Information then appears on General, Receiver, and Differential tabs. Information on these GPS Information screens is described on the following pages.

GPS button with bars - bars indicate cellular signal strength

GPS Information - General Tab



Latitude, Longitude—Displays current position (in longitude and latitude) and elevation.

Elevation—Shows elevation of receiver.

Heading—Displays degree heading of travel.

Number of Satellites—Number of tracked satellites used in position fix.

Differential

- **No Diff**—Indicates the receiver is not receiving a differential GPS signal.
- **Diff On**—Indicates the receiver is receiving a differential GPS signal.
- **GLIDE**—GPS 6000/GPS 6500 Only.
- WAAS/EGNOS
- TerraStar—GPS 6500 Only.
- RTK Fixed—The receiver is receiving a valid RTK differential source.
- **RTK Float**—The receiver is receiving information from the Base Station, but the signal is not strong enough for an RTK fix.

GPS Speed—Real-time speed of travel.

Position Rate—The frequency that the receiver is sending the display your position in longitude and latitude (GGA). For example, at 10 Hz the display would be receiving a position message 10 times every second.

Speed/Heading Rate—The frequency that the receiver is sending the display your ground speed and heading (VTG)

NOTE: Position Rate and Speed/Heading Rate should both be set at a minimum of 5 Hz for guidance or steering.



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Change Longitude/Latitude Format—Pressing this button changes the Longitude/Latitude format. These can either be shown in Degrees, Minutes and Seconds; or Decimal Degrees.

View Messages View Messages button—see "GPS Messages" on page 70.

UTC Time—UTC is an acronym for Coordinated Universal Time, a high-precision atomic time standard that defines local time throughout the world. If you are receiving information from satellites, then the UTC Time should automatically update.

UTC Date—If you are receiving information from satellites, then the UTC date should automatically update.

HDOP—Horizontal Dilution of Precision (HDOP) indicates the quality of the horizontal GPS position. Lower HDOP numbers are optimal, higher numbers are undesirable.

PDOP—Position Dilution of Precision (PDOP) is a unitless measure indicating when the satellite geometry can provide the most accurate results. When satellites are spread around the sky, the PDOP value is low and the computed position is more accurate. When satellites are grouped close together, the PDOP is high and the positions are less accurate. Lower PDOP numbers are optimal, higher numbers are undesirable.

Port—The connection between the display and the GPS as established at a message format and baud rate.

RTK Throughput—Indicates a percentage of information available from the RTK base station. Used for troubleshooting an RTK link between the base and rover.

Frequency—The Correction Frequency indicates the GPS satellite frequency used by the receiver.

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42	(SPS Inform	mation	
General Red	ceiver Differential	Base Stat	on	
Latitude Elevation: Heading: Number of Sa Differential: StableLoc Init GPS Speed: Position Rate: Speed/Headin	42.0 -93.6 itellites: 1 ialized: ig Rate: ig Rate: View Mot	02605380 28456625 952.142 270.17200 15 RTK Fixed No 0.00 10 Hz 10 Hz	UTC Time: UTC Date: HDOP: VDOP: PDOP Port: RTK Throughput: Correction Age:	18:43:05 NA 1.1 1.3 1.7 8N1 1% 1.00

NOTE: The Correction Frequency diagnostic does not show for WAAS connections.

Correction Age—The length of time since the GPS receiver has obtained its last update.



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NOTE: The age of the DGPS corrections (as delivered to the GPS receiver) will vary from one second to several seconds, depending on the characteristics of the individual satellite signals.

GPS Messages



Satellite Plot



The Satellite Plot feature can display both a plot or a graph. The information on these screens is used as an advanced diagnostic tool for GPS satellite availability. In the event of GPS availability issues, technical support may request you to view these screens.

Satellite Plot - Graph

Satellite Plot requires GSV and GSA NMEA messages to be turned on from the GPS receiver.

Graphically shows satellite PRN's and SNR.

Plot Graph							
360° N	A		PRN	•	Elv	Azm	SNR
	\sum	1	2		78	351	47
🖉 🕲 🔍 💡) O	2	5		44	181	45
	00*	3	6		46	54	46
	× 2	4	9		13	68	39
	0	5	12		61	247	46



GPS Information - Receiver Tab

mom GNSS *©* ⊡€ √ Receiver Receiver ID OE mot • Firmware Version S **GPS** Information • Product Serial Number (enclosure) General Receiver Differential Internal Serial Number Receiver ID: Firmware Version: Product Serial Number: Internal Serial Number: TerraStar Unlocked: RTK Unlocked: GPS 6500 OEM060610RN0000 TerraStar Unlocked BFN14200472 No No • RTK Unlocked

GPS Information - Differential Tab



Active Estimated Error—Estimated error of the active differential source.

Active Differential—Indicates the active differential source and will vary depending on the current state of StableLoc.

Selected Differential—Indicates the selected differential source (the source selected in the GPS setup).

StableLoc Error Limit—Indicates the error limit selected in the GPS setup.

Device Name—Indicates the connected Relay Module.

Software Version—Software version of the radio/modem within the Relay Module.

Manufacturer—Manufacturer of the Relay Module.

Serial Number—Serial number of the Relay Module.

Signal Strength—Shows cellular signal strength.

Mobile Directory Number—Relay CDMA/GSM Only, used for troubleshooting

Mobile Subscriber ID—Relay CDMA/GSM Only, used for troubleshooting

NTRIP Connect/Disconnect—Connect or Disconnect from NTRIP Source.

RTK Convergence—Three states to indicate the current convergence level.



Red Arrows, pointing out—The device is not currently converging on RTK. This may indicate a RTK link problem.



Green Arrows, pointing in—The device is currently converging, but not ready for RTK fix.

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Green Bull's-eye—The device is converged on RTK.

Base Station



5)		(GPS Informat	tion		
General	Receiver	Differential	Base Station			
Active Es Active Dii Selected StableLoo Device N Software Manufact Serial Nu Signal St Mobile D Mobile St	timated Error fferential: Differential: Error Limit umber: Version: urer: mber: rength: irectory Nun ubscriber ID	or : 27(nber: :	RTK Fi F Relay CE 11. 	0.4 xed 2TK 4 0MA 000 Telit 958 Bm 807	RTK Convergence:	0
D	NTRIP					1

Displays base station specific information

Latitude—Latitude of Base Position.

Longitude—Longitude of Base Position.

Distance to Base—Distance to Base Station.

Common Satellites—Shows the number of Satellites the receiver has in common with the base station.



RTK/NTRIP Information (ParaDyme/GeoSteer Only)

The following information appears on the second GPS Information screen for RTK or NTRIP.

Convergence (%)—Successful communication between Base Station and ParaDyme Roof Module.

Radio Throughput—Displays percentage of data received from Base Station.

Distance to Base—Shows distance to Base Station in miles (kilometers).

Base Channel—Displays Channel ID of Base Station.

NTRIP—(NTRIP users only) Shows either Connected or Disconnected.

GPS Information - NTRIP

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GeoSteer Or ParaDyme

NTRIP Connect—Connects the display to the NTRIP correction source.

NTRIP Stream—Network mount point.

NTRIP Status—Displays NTRIP connection; either Connected or Disconnected.

Cellular Status—Displays status of ParaDyme cellular modem; either Connected or Disconnected.

Cellular Signal Strength (%)—Displays a number between 0 and 100%.

WiFi Status—Displays status of WiFi router; either Connected or Disconnected.

WiFi Signal Strength—Displays a number between 0 and 100%.



Guidance Tab on Map screen

The Guidance tab on the Map screen allows you to create a new pattern, load an existing pattern, or adjust Guidance Options and Guidance Settings. This tab changes its appearance after you create or load a pattern.

Before you create any patterns, the map screen's Guidance tab appears as shown.

NOTE: Guidance pattern will default to the one last used. Guidance patterns can be set to widths up to 2000 ft.



New Pattern—Straight

Select Pattern

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Press . You will automatically return to the Map screen.

System defaults pattern type to last used. Press the pattern icon to select a different pattern.

- Implement Width (from Implement Setup)
- Guidance Width input box
- Enable Tramlines checkbox. See "Tramlines" on page 103.

		0.00	0.0	
Guidance		New Guidai	nce Pattern	
Mar	Straight		Pattern Options Implement Width Guidance Width	30.0000
Patt	Change Pattern			Enable Tramlines
		_	-	
				ا 🔬 🚖

Change pattern



Create AB line using 2 points



Create AB line using Current Location and Heading



uses current location and heading, line extends 1 mile before and after the A point (recommend vehicle having forward motion to get a good heading).

Create AB line using Current Location and Inputting Heading

0.0 °

uses current location and input heading, line extends 1 mile before and after the A point

Patterns are automatically saved when the guidance pattern is created.



NOTE: On straight AB lines, if you complete a swath that is longer than the previous one, the display automatically extends the guidance path for the following swaths.

New Pattern—Adaptive Curve

Use the Adaptive Curve pattern to follow gentle contours in the field, or when you need to avoid obstacles. This pattern provides guidance based on the last curve driven.



Select Pattern



System defaults pattern type to last used. Press the pattern icon to select a different pattern.

- Implement Width (from Implement Setup)
- Guidance Width input box





NOTE: Guidance extends beyond the end of curved swaths. This makes it possible to get LED guidance back onto the swath if the vehicle drives past the end of a swath. The extended swath lines do not appear on screen.

You can adjust the degree heading at which the system generates the next pass by doing the following:

- 1. Go to the Guidance screen
- 2. Press the Options button.
- **3.** The Guidance Options screen appears; press the Adaptive Curve button.
- 4. At the New Pass drop-down menu, select Heading Change
- 5. Use to enter in the degree number of your Heading Threshold.

Patterns are automatically saved when the vehicle turns for the first time.

		0.00	470'	7.0	(D€ mgm
Adaptive Cu	rve					
Reset	2	Gu	idance O	ptions		
	Nudge Save	Adaptive Curve	Shift Ligh	ntbar		
Nudge Total: C	Save	New	Pass	Heading Change		and the second second
	ll	Heac	ding Threshold			
2	Pause					1
1						X
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New Pattern—Identical Curve

Use the Identical Curve pattern to follow gentle contours in the field. This pattern provides guidance based on the original curve driven.



Select Pattern



System defaults pattern type to last used. Press the pattern icon to select a different pattern.

Press . You will automatically return to the Map screen.

New Pattern—Pivot

Use the Center-pivot pattern for a field that is irrigated using a center-pivot. With this pattern, you can drive concentric circles around the center-pivot. The display will calculate the center point based on where you have driven. Otherwise, you can enter in the latitude and longitude of the center point, if known.



Select Pattern



System defaults pattern type to last used. Press the pattern icon to select a different pattern.

- Implement Width (from Implement Setup)
- Guidance Width input box
- Manual Entry checkbox and Latitude and Longitude input boxes
- Press 🗸 . You will automatically return to the Map screen.

Pivot Shift



Shift by Distance—Shift the pivot pattern, inward or outward, by a desired distance.

Shift by Row—Shift the pivot pattern, inward or outward, by a desired number of rows.



Nearest Row—Shift pivot pattern to the nearest row based on current location. User must enter row spacing.

Create AB line using driven path



- Position one wheel of the vehicle in a pivot wheel rut, with the rear of the vehicle to the pivot arm.
- Press A ← B to mark A point. A green ball appears on the map screen where point was placed.
- Drive desired path around the field. Keep the vehicle wheel in the rut.

AB line appears on the map screen and B point is marked with a red ball.

•	A ⊶> B	is greyed out until you drive a minimum of 160 ft.					
	• Pause - Press	II to pause path during path creation					
	• Resume - Press	s b to resume path during path creation					
	Cancel - Press	to cancel path during path creation					
• `	When you are almost	t back to the pivot arm or the edge of the field, press $\mathbf{A \leftarrow B}$ to	o mark B point, the				

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1. Next, you must set the Field Edge. You may do this when the Pivot Field Edge window appears on your display.

From here, you may choose one of three options:

Shift By Distance—This sets the field edge as the distance and direction in relation to the AB Line created. In the Pivot Field Edge Distance portion of the window, enter the distance in feet and inches.

Shift By Rows—This sets the field edge as the number of crop rows multiplied by the number of spacing. In the Pivot Field Edge Distance portion of the window, enter the Number of Rows and Row Spacing.



Cancel

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The vehicle uses the driven pass as the AB Line.

- 2. If you chose Shift by Rows in the previous step, use to enter the Number of Rows and Row Spacing. Choose the direction relative to the AB Line (either Outward or Inward), and press to continue.
- 3. Steer the vehicle so that you center the green lights in the lightbar as you drive forward along the path.

NOTE: To work from the center of the field outwards, the initial pivot must have:

- A radius of at least two swath widths.
- An arc length of at least two swath widths.

New Pattern—SmartPath

The SmartPath[™] pattern is designed to give guidance from any previously-driven pass. This is used in irregular-shaped and terraced fields where you cannot run all passes parallel to the previous pass.

Instead, the SmartPath guidance allows you to move to a different area of the field, and then resume a previous guidance pattern later.

SmartPath can be used to create straight AB patterns within the SmartPath pattern. Cycle between Straight AB and SmartPath at any time within SmartPath guidance pattern.

Select SmartPath





System defaults pattern type to last used. Press the pattern icon to select a different pattern.

. You will automatically return to the Map screen.

Press

Inputting Paths into SmartPath



The AB Manager screen allow user to create, edit, remove, and load paths into SmartPath.

You can create up to 10 different AB lines within SmartPath.



Press the Back button to close the screen.

Cycle between Loaded Paths



Press $|100|^2$ to cycle through the paths loaded in SmartPath.

If you drive your vehicle onto the Projected Path, the system guidance uses this as the Followed Path.



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Once the AB line is created, you can switch between the AB line and SmartPath patterns by pressing the AB/SmartPath toggle.

The Map screen changes its appearance to Perspective View, and SmartPath settings are shown in the Mapping toolbox. Drive along the path that you wish to create.

NOTE: The display will not create an A point with SmartPath, unless you are mapping a Straight AB line within it.

After you turn around on your first pass, the system guidance will follow a maroon-colored line parallel to your previouslydriven pass.

As you continue using the SmartPath, the map screen will display three lines:

• (A) The Base Path

Appears as a black line, is the initial SmartPath that you created on the first pass.

• (B) The Followed Path

Appears as a maroon-colored line, is the path that your vehicle is currently using.

• (C) The Projected Path

Appears as a blue-colored line on the opposite side of the Base Path and is an alternate path parallel to the Base Path. The system guidance created this path while the base path was created.



This is the path that your vehicle would have taken if you had turned it in the opposite direction.



• The Projected Path and Base Path both remain in display memory, until you press the Reset button without saving the SmartPath pattern.

• Pressing the Save button saves all the SmartPath passes within the display's memory for future use.

Select a Previous SmartPath Pass

If you have specified SmartPath as your desired pattern, but you are not following an active guidance pattern, the Guidance System automatically begins searching for SmartPath patterns for your use.



If you wish to use a previously-created SmartPath pattern, you can do so by pressing on the Active Line Cycle button. This button allows you to cycle between available SmartPath patterns.



- When the guidance system looks for other available SmartPath patterns, it first displays the nearest-available pass.
- You can adjust the available area in which the Guidance System searches for previously-created SmartPath passes. To do this, adjust the Heading Threshold settings on the Smart tab of the Guidance Option screen.

SmartPath Guidance Options



SmartPath only creates a SmartPath pass when you are logging data in the field. However, you have the option of using it to create SmartPath passes continually during all field operations.

To adjust this setting, press the Guidance Options button on the Guidance tab. The Guidance Options screen appears. Press the Smart tab Wrench.

- The default setting is Logged Area. This setting only creates passes while you are logging field data.
- By selecting All Area Covered, you can create SmartPath passes even when not logging field data.
- The Heading Threshold setting is the available area that the Guidance System uses to search for previously-created SmartPath passes. The default setting is 20 degrees.

AutoSave

Patterns are automatically saved when a guidance pattern is complete.

- A screen will notify user that the patterns is being saved with a default name using the date and time.
- Patterns can be renamed or deleted.



Manage Patterns

Spatial Sort



Spatial Sort allows the user to select any guidance pattern in the display, sorted by distance from the GPS location.

Pattern at the top of the list will be the closest to current GPS location.

patterns.

Show all patterns



Import Pattern



Display informs you when file has been successfully copied.

Export Pattern



Check the box to show all

Display informs you when file has been successfully copied.

Edit Pattern

If you wish to rename a pattern, first press the Manage Patterns button on the Guidance tab of the Mapping toolbox. Press

to enter a name for the pattern. The new pattern name now appears in the pattern list of the Manage Patterns screen.

Remove Pattern/Remove All Patterns

To remove a pattern from the display memory, first press the Manage Patterns button on the Guidance tab of the Mapping toolbox. At the Manage Patterns screen, press either:

- Remove button if you wish to delete one pattern file; or
- Remove All button if you wish to delete all of them for the current field.

Reset Pattern

If you have been using an already-saved pattern, and wish to switch over to a different pattern in the same field, you can use the Reset Pattern feature by following the steps below.

1. Press Reset

Press the Reset button on the Guidance screen.

2. Confirm Reset

The Guidance screen appears, asking you to reset the current guidance pattern. Press

to continue.

3. Create new pattern (optional)

The pattern is now reset. You may now create a new pattern, if desired.

Pattern Groups

Pattern Groups allow the user to group up to 20 patterns per field, using the Group Manager.



The Group Manager allows the user to add a new pattern or load an existing pattern to a Group. Once a Group is created, it can be saved and reloaded.



The Pattern Cycle button allows the user to easily cycle between patterns with a single button press. Patterns will cycle in the order they were created or added, starting back at the beginning of the list, once the last patterns is reached.



When loading a Pattern Group, the Group Pattern Setting dialog appears and allows the user to select the Guidance Width and any Shift that needs to be applied to each Pattern within the Pattern Group. User will also have the option to load Curve Patterns as Adaptive or Identical.

Straight AB, Identical Curve, Adaptive Curve and Pivot Patterns can be grouped. SmartPath cannot be grouped.



Guidance Options

Save



This allows you to save a pattern (.AGSETUP file) to the display's internal memory.

```
Press and enter a unique pattern name.
```



Pause



	Save Pattern			
Enter New Descripțion:				
2015-08-31_18:25:07			Show All Patterns	
Name		Swath	Created	Туре
2015-08-31_18:01:30			08/31/2015	Group
2015-08-31_18:01:11			08/31/2015	Group
2015-08-31_17:58:24		30.0000	08/31/2015	Curve
2015-08-31_17:57:245		30.0000	08/31/2015	Smart
2015-08-31_17:57:05		30.0000	08/31/2015	Smart
2015-08-31_17:56:55		30.0000	08/31/2015	Smart
2015-08-31_17:56:05		30.0000	08/31/2015	Straight
				×

The Pause button allows your display to stop

logging points along an AB Line. Once this button is pressed, a Resume button will take its place until you press this button and Pause reappears.

NOTE: If you are using the display to follow a set AB Line and wish to temporarily deviate from this line, you can use the Pause button to pause the display's guidance logging activity. This feature could be used, for example, by a vehicle operator who must refill a sprayer. When paused, the display will continue to give the distance back to the original pause point position.

• Press on the Guidance screen. When you do so, the place where you paused appears on the Map screen as a yellow ball.



NOTE: You can pause a pattern even if you have not set the "B" point yet. If you do so, the message in the lightbar will read "Need B." If you pause the pattern after you have set your AB Line, then the lightbar will indicate the distance your vehicle must travel to return to the pause point.

• To resume your pattern, press



to resume creating the AB Line.



NOTE: If you press the Resume button before you have returned to the original AB Line, your display will select the closest AB Line to your vehicle.

Remark A



If you chose Straight patten, the Remark A button appears on the Guidance Options screen. The Remark A button "remarks" the A point by moving it to the current position of the vehicle while maintaining the same heading. A brief message appears in the on-screen lightbar, stating "Point A Remarked."

Nudge



NOTE: Only Straight patterns offer two Nudge settings. All other patterns have a single nudge setting.




Guidance and Steering

Press button then the Nudge tab to make adjustments to Nudge settings.

- Press to enter a distance for increment that the swaths will move with each successive press of the left or right arrows buttons on the Guidance tab.
- To clear out the adjustment and go to the original position, press Clear Nudge.

Screen shows Small and Large increment settings for Straight path. Other Patterns will only show the small increment setting.

Shift



Shift moves all of the swaths by a specified distance to the left or right, (including the AB line). The swaths can be shifted by a distance or number of rows.

• Shift by Distance

Use to enter the distance that you wish to shift the pattern. Use the bottom drop-down menu to enter the direction, (either left or right). Press Apply button to accept change.

• Shift by Rows

i

Use to enter the number of rows you wish to shift the pattern. Use the second to select the row spacing. Use the drop-down menu to enter the direction to shift the pattern. Press Apply button to accept the change.

NOTE: The Shift setting is not available with the SmartPath patterns.

Ξ	0.00 at 00'00" 0.0 mph	®*• D€ m³m
Straight	Pass: 1 R	Corn
Straight Reset	Image: Shift Lightbar Small Increment: 1.0 in Image: Shift Lightbar	Corn 0.0 bu/ac Avg) 0.0 % .00 ac 1t 0 lb Is 0
Grain (weight	1	D buft



Guidance and Steering

Steering



Steering allows users to make autosteer turning adjustments on the go.

- Line Acquisition—Determines how aggressively the system steers onto the desired steering path. The ideal setting allows the system to take the shortest route without excessively sharp or sudden movements of the vehicle.
- **Steering Response**—Controls the oscillations of the vehicle when it is on the desired path.
- **Reverse Response**—Controls the oscillations of the vehicle when it is on the desired path in reverse.

			0.0)O ac	00'00" 0.	0 mph	@* C)E mom
Stra	ight							
Reset	5			Guid	ance Options			
	Save Save Group Pause	Nudge	Ac	Line iquisition	Steering Responce	Reverse Responce		
/			overage v	while Autoste	eer is engaged			
		∎			FMR SH		۵ 🚖	\bigotimes

• Log coverage while AutoSteer is engaged — checkbox (check for yes, un-check for no). Coverage while engaged is available when an AutoSteering system (SteerCommand, GeoSteer, ParaDyme) is connected. User can still manually control coverage logging with the on-screen coverage button. AutoSwath is unaffected by this selection.

Lightbar



- **LED Spacing**—Enter the distance represented by each square of the lightbar, $\frac{1}{2}$ -6 ft (3–182 cm).
- Mode
 - Chase—Center the vehicle by following the indicator lights.
 - **Pull**—Center the vehicle by turning in the opposite direction of the indicator lights on the lightbar.
- External Lightbar LED Brightness

If applicable, press to enter in a number specifying the brightness of the LED lights on the optional L160 external lightbar. The number 1 is the dimmest and 10 is the brightest. Default is 5.

Identical Curve	Pass: 1:	3 L	
Reset 2	Guidance (Options	
Nudge Total: C Pause	Nudge Shift Lightbar	Internal Lightbar Enable External Lightbar LED Brightness	

Guidance and Steering

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13.5.

Guidance Options

Paths Between Tramlines:

Paths to Start Field:

Guide To:

Tramlines



Tramlines only available with Straight AB and Identical Curve Pattern Types

• Paths Between Tramlines

Use to enter the number of passes between tramlines.

• Paths to Start Field

Use to enter the number of passes at the beginning of the field before the first tramline.

• Guide To

Use drop-down menu to choose between Paths and Tramlines.



Adjust Tramline - move the placement of the tramline by one pass left + or right +

Use the toggle button to switch menu between Tramline and Nudge on the Mapping

68.9.

Nudge Shift Lightbar Tramlines

Straight

Reset

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Save

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Save Group

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Pause

A-B

Remark A

toolbox.

An audible warning is sounded to alert the operator a Tramline is reached when the vehicle is ½ a swath

width away.

Tramlines are also numbered under the Pass Number. This number will flash multiple times when the Tramline is reached for a visual warning.



Summary Report

This screen shows you field totals and averages. Use the drop-down

menus at the top to specify the information you would like to view. Specific information is shown in the list below for each:

- Season
- Grower
- Farm
- Field
- Operation
- Product

The list displays information for each Region and Instance.

There are four viewing modes:

- Agronomic
- Event
- Operator
- Configuration

The Agronomic View shows data of a specific field.

		501	minury nepore					
Season		Grower			Farm			_
2014 Crop	•	Ag Leader		•	Farm 1			•
Field		Operation			Product			
North	۲	Liquid		•	Water			¥
Region	Avg Rate	Total	Area	Date	Created		View Mode	
Instance 1	11.8	18.9	1.60				Agronomic	¥
<1>	11.8	18.9	1.60		07/22	2015	Create Report	2
Field Total (All)	11.8	18.9	1.60				View Report 💋	3
							View Map	

		C	. ,		Fe	
2014 Crop	•	Ag Leader		•	Farm 1	
Field		Operation			Product	
North	Ŧ	Liquid		¥	Water	
Region Avg	Rate	Total	Area	Date	Created	View Mode
Instance 1	11.8	18.9	1.60			Agronomic 🔻
<1>	11.8	18.9	1.60		07/22/2	015 Create Report
Field Total (All)	11.8	18.9	1.60			View Report View Map

The Event View shows data of a specific Event.



Operator View

- Shows data of a specific Operator
 Filters data by each configuration used by the selected operator.
- Area Only
- Daily Subtotals
- Configuration Total
- Operator Total

R			Summary Re	port	
Season			Operator	Operati	on
		v		Ψ.	
Start Date			End Date		
July 22, 2	015		July 22, 2015		
Region	Avg Rate	Total	Area	Date Created	View Mode
					Create Report View Report Wiew Map

Configuration View

- Shows data of a specific configuration
- Area Only
- Daily Breakdown
- Daily Subtotals
- Configuration Total

R		S	ummary Report			
Season		Operatio	n		Configuration	
2014 Crop	•	Liquid		•	Tractor, Spray	•
Start Date:		End Date	:			
July 22, 2015		July 22, 2	2015			
Date Created	Grower	Farm	Field	Area	1	View Mode
07/22/2015						Configuration
2015-07-22_10:41:32	2 Ag :eader Fari	n 1	North		9.37	Create Report
			Subtotal:		9.37	
		Tot	tal Area		9.37	Report 🖗
						View Map
						-

Date Range

Start Date:	End Date:
June 10, 2014	June 12, 2014

- View data in a certain date range.
- Only used in Operator or Configuration view.
- Defaults to first and last day of logged data in the season.
 - Can only select days within that date range.
- Create Report button will create all Smart Reports within the defined date ranges.

Event Summary



The event summary page allows the user to access productivity information specific to the current event as well as summary information, field notes, and Smart Reports.

The Event Summary page is available during any field operation.

- A. Productivity Information
- **B.** Summary Reports
- C. Field Notes

Field Notes

The Field Notes button is where you can enter information such as the following:

- Crop information
- Application timing
- Weather information
- Soil condition



Conditions



Weather Sky Condition Wind Direction Wind Speed Air Temperature Humidity

Soil Conditions Tillage Type Crop Residue Level Soil Condition Soil Moisture Soil Temperature

Crop Timing

Operation Timing Target Crop Type Growth Stage

Equipment



Equipment attributes specific to operation being performed

Product



Product attributes specific to operation being performed

Memo



to input, edit, or delete Field Notes.

Settings



Change settings that affect the creation of application reports.

Auto Generate Application Report

Check this option to have the display automatically generate an application report each time you start a new field operation.

• Copy Notes from Previous Region

Check this option if you wish to have the display copy all values already specified in Report Details for the previous region over to a new region.

		1.60.	с О.О трh	O∈ mg ^m
Event: 20 Grov Fa Products Water	15-07-22 10 Conditions Equipment Product	41:32 Field Report Map Appearance • Multi-Color Rate • Single Color Coverage	C O.O mph Notes Automatically Create Application Reports Creation Trigger Event Change	0 € ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Memo Settings		Copy Notes from Regio	n to Region
	TI III	1		

• Prompt for Field Notes

Check this option to have the display automatically launch the region summary data collection dialogue box each time a new region is created at the Work screen during application rate control.

- Report Map Appearance
 - Multi-Color Rate

Select this option to have application reports display the application maps using rate legend as displayed on the Work screen.

• Single Color Coverage

Select this option to have the application reports display single color product coverage maps.

Smart Reports™

Smart Report[™] creates documentation of all in-field product application events. This documentation is saved in a Portable Display Format (PDF) on your USB or AgFiniti. This PDF either can be viewed on the display screen, or printed later. Smart Reports provide information relating to location, product information, applied totals, field areas, as-applied maps and field boundaries.

NOTE: It is recommended that you enter any necessary information in field notes before creating a Smart Report.

Create Reports

screen, then press the Create Report button.

- 1. The Create Report screen appears, which lists at top:
 - Grower
 - Field
 - Product

Two drop-down menus list:

- Operating Configuration
- Product Group

Use the drop-down menus to change these, if desired. Press vhen finished.

- 2. A scroll bar informs you of the progress made when the display compiles the Smart Report.
- 3. At the conclusion of the Smart Report creation process, a screen states "Report Creation Complete."

Press or if you wish to view the report press the View Report button. A built-in PDF viewer displays your Smart Report. An example is shown at "Control Channel Report Content" on page 111.

1 NOTE: You can view subsequent pages in the Smart Report by pressing the blue right and left arrows at top right. Also, you can zoom in and out of the Smart Report by pressing on the magnifying glass icons at top left.

Smart Report Auto-Generation



This screen allows the user to change the settings that affect the creation of application reports.

 Automatically Create Application Report checkbox

Check this option to have the display automatically generate an application report each perform the action in the Creation Trigger drop-down menu.

Creation Trigger drop-down menu

User can select to generate reports upon Event Change or Event Closed.

If changing products through the field, it is

recommended to set the Prompts to Close Event checkbox in Event Options.

Export Reports

Reports are stored locally within the display and must be manually exported to a connected USB or AgFiniti. This can be done by pressing "Export Reports" on the Data Transfer page.

Ξ		1.60	ac 0.0 mph	O€ u§u
Event: 20	15-07-22_10	:41:32		12.1 <mark>3:36 PM</mark>
Fa GIO		Field	d Notes	22/2015
Products	2	Report Map Appearance	Automatically Create	
Water	Conditions	Multi-Color Rate	Creation Trigger	.6 ac
	Equipment	Single Color Coverage	Event Change	v
	*			
	Product			
	Memo			
	2		Conv Notor from Posion to Posio	
	Settings		Copy Notes from Region to Regio	
			Prompt for Field Notes	
	21			
				s 🔊

Control Channel Report Content

The content of all product application reports is divided into two distinct groups.

The first page(s) of the report represent field and product control channel specific information.

In cases of multiple product application, multiple pages will be generated, one for each channel of product control.



Control Channel Content includes the following:

- Service Provider Information
- Grower Information
- Field Information
- Farm Name and Description
- Equipment Configuration Information
- Application Information
- Date/Time Information
- Crop Information
- Rotation Restrictions and REI
- Multiple Target Pests
- Applied Product Information
- Operator and Supervisor Information

View Reports

REGION SUMMARY ltem Region 2 Region 1 Region Name <1> Operator Nam Application Details 80.80 ha Map Amount 1356.72 L Pell Lime Amount 902.33 L Application Start Time 12/17/2009 3:20 PM Application End Time 12/19/2009 10:20 AM Soil Conditions 15 ° C Wet Soil Moisture Level Soil Condition Medium Crop Residue Level High Strip Till Tillage Type Environmental Air Temperature 15 ° C 10 km/h NE Wind Speed Wind Direction (From) Partly Cloudy Sky Condition 11 % Additional Information

2_JD 8440_CM 7000_111731_2013_07_09.pdf

Page 2 of 2

> Report 🐼 To view Smart Reports that have been saved on your USB drive, go to the Summary screen

and press the View Reports button. At the File Selection screen, scroll down the list and select the PDF file of your Smart Report.

Press and the Smart Report will appear in the PDF viewer.

View Map



Summary Map of a particular Field Total, Region or Instance shown in the Summary Report.

A Summary Map appears. This map shows the rate applied for Application operations and varieties for Planting operations.

