CASE IH PRECISION AGRICULTURE

CASE IH AGRICULTURE

Precision solutions for all seasons, all crops, all terrain, all vehicles—a growing investment

CNH ORIGINAL PARTS

www.PutYourFarmOnTheMap.com

PRECISION AGRICULTURE

Boost Your Farm's Productivity—with a Case IH Precision Farming System

Precision farming—arguably the most significant advancement in agriculture since the advent of mechanization—allows for amazingly precise, hands-free operation of tractors and combines. And Case IH is setting the pace for growers who are looking for more productivity and efficiency, with precision farming solutions for every farm operation.

From the enhanced productivity of lightbar steering, to the pinpoint accuracy of fully automated guidance, our Advanced Farming System (AFS) solutions will help you maximize yields, control input costs and optimize your profits. Operators also cite "being less fatigued" as a principal benefit of precision farming—further boosting farm efficiency and productivity.

AFS AccuGuide™, which offers fully automated steering with repeatability and precision, is a popular choice for farmers, as Case IH designs higher horsepower tractors, combines, and sprayers for simple installation of guidance systems, either in the factory or at the dealership. The Case IH AFS AccuGuide offers four levels of accuracy, down to one-inch.

For your existing fleet, we provide a complete range of industry-leading aftermarket solutions for GPS-based guidance, from entry-level to high-end, for all makes and models of equipment. These products feature a range of application solutions for planters and sprayers, including anhydrous ammonia.

Regardless of your farm operation and your budget, Case IH has the precision farming solutions you need, for every step of the growing cycle. This precision farming brochure will help you determine which system is right for you.

To learn precisely how our precision farming solutions can boost your farm's productivity, visit your local Case IH dealership. The precision farming experts at Case IH will show you how to realize the best possible return on your precision farming investment.

To learn more, visit www.putyourfarmonthemap.com
To find a Case IH dealer near you, visit www.caseih.com.

AFS PRO 600 DISPLAY

AFS PRO 600 DISPLAY

The AFS Pro 600 display can be used throughout a farming operation. This fully customized color display allows the operator to view, monitor, and control as much or as little information as desired.

Planting

The AFS Pro 600 controls Case IH planter operations featuring:

- Prescription Planting
- As-Applied Mapping
- Automated Overlap Control

ISO11783

The AFS Pro 600 is ISO11783 compliant and will serve as a virtual terminal for any ISO11783 compliant implement.

AFS Field Performer

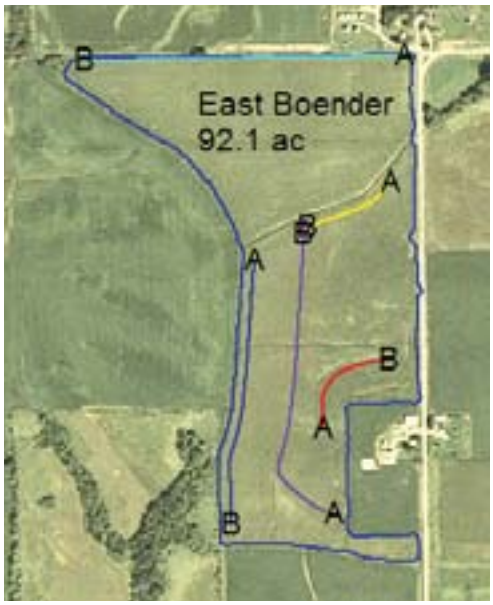
- Allows the operator to record and log fuel usage, individual operator performance, acres per hour and engine efficiencies.
- Late model Case IH Puma™, Magnum™, Steiger® and QUADTRAC® tractors as well as Axial-Flow® 7010 and 8010 combines can be equipped with AFS Field Performer.

Harvesting

- Machine function and control on Axial-Flow 7010 and 8010 models
- Yield, moisture monitoring, mapping and AFS AccuGuide auto-guidance functions on all Axial-Flow models.

AFS DESKTOP SOFTWARE

AFS DESKTOP SOFTWARE



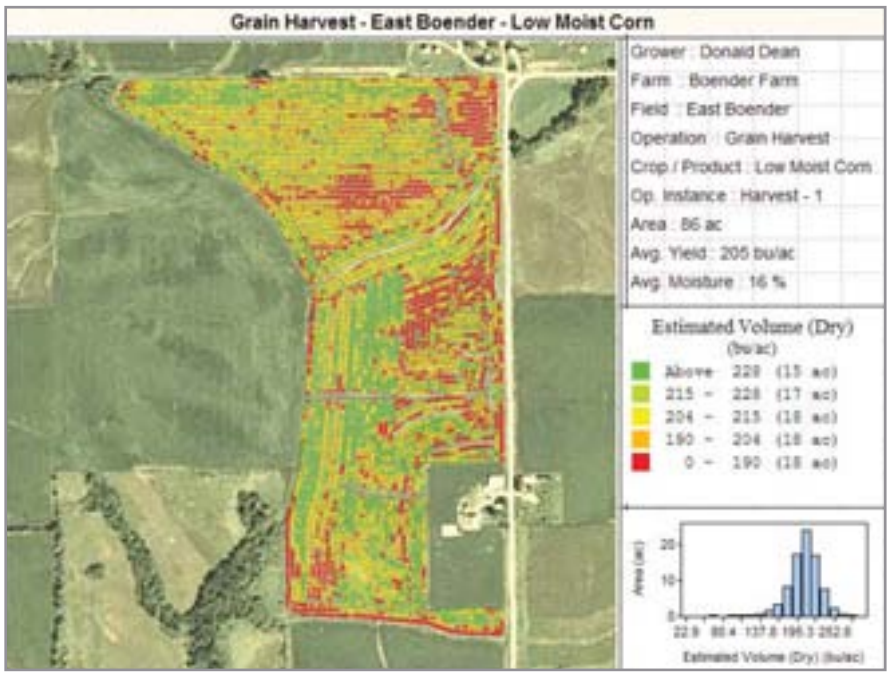
Import/Export **AFS AccuGuide Guidance** Patterns.

MANAGE. PLAN. PRESCRIBE. REPORT. ANALYZE. SUCCEED.

Manage your farming operation with the latest AFS desktop software package from Case IH. AFS Harvest and Application Control Systems software provides complete support for all your precision farming needs. Generate yield maps, as-applied maps, prescription maps and more from a single, integrated software package. You can also create soil sampling maps, create and print reports and import satellite imagery.

AFS desktop software is designed to provide unmatched support for all your Case IH precision farming equipment. But it also supports all of the major competitive precision farming systems in the market, including Trimble, Ag Leader Technology and Greenstar. This provides you with unprecedented access to precision farming data.

AFS desktop software provides numerous tools and powerful features to meet your precision farming needs. The software is designed to provide a very visual and easy to use interface. Many critical tools walk you through step by step to make sure you get the results you expect.



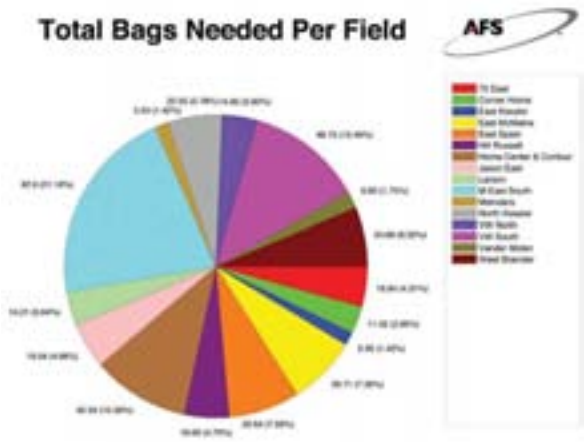
Printout with Satellite image, field summary and field map.

AFS DESKTOP SOFTWARE

AFS DESKTOP SOFTWARE

Some of the key features of AFS desktop software that will benefit your farming operation are:

- Manage, view, and edit precision farming data collected with your AFS equipment as well as other precision farming data sources.
- Ability to generate print layouts, reports, and charts.
- Import and view geo-referenced image files.
- Create variable rate prescriptions for your Case IH AFS equipment and other major brands of application equipment.
- Create setup cards (Growers, Farms, Fields, boundaries, etc.) for your Case IH AFS equipment as well as other major brands of equipment.
- Create, manage, and export guidance patterns for your Case IH AFS equipment and other major brands of equipment.
- Ability to overlay multiple layers of data on the same maps.
- Spatial sorting of data by field or farm to make sure your data is properly and easily organized.



- Supports displaying performance information from your Case IH AFS equipment such as Fuel Efficiency, Engine Load, Slip, etc.
- Generate Crop Plans.
- Record application operations for regulatory record keeping.
- Ability to generate resource tracking results such as amounts of product needed (bags of seed, tanks of chemical, etc.) for or used during field operations.
- Query tools allow you to examine specific areas of your field to help you diagnose problems or determine how to get more out of your land.
- Import/Export of ESRI Shape, ASCII text, and BMP, JPEG, GeoTIFF, or TIFF image files.

Case IH AFS desktop software is backed by a dedicated software support group in North America and regional support providers in international markets. Dedicated software support means when you have a question or a problem you get quick and accurate answers.

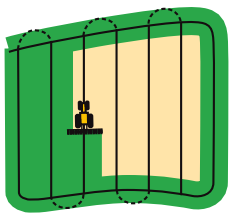
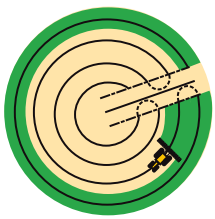
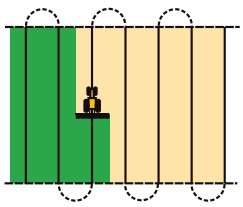
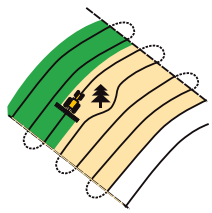
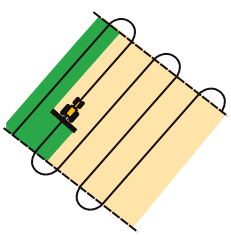
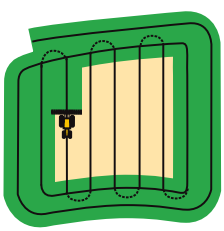
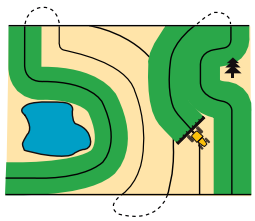
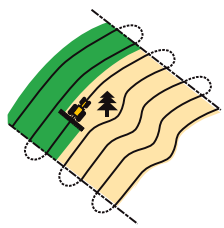
All new copies of the software come with 1 year of free support and free access to all software releases (North America only). After the first year a software maintenance program is available that allows you to enroll yearly to receive unlimited technical support and all software releases for the maintenance year.

DISPLAY OPTIONS

CHOOSE DISPLAY

*Ag*GPS EZ-GUIDE 250 LIGHTBAR	*Ag*GPS EZ-GUIDE 500 LIGHTBAR	*Ag*GPS FIELDMANAGER DISPLAY
		
• Entry-level lightbar guidance system • Easy-to-use and most affordable • Built-in high performance DGPS receiver with OnPath® filter technology • Ultra rugged aluminum housing • Compatible with EZ-Steer® 500 assisted steering system	• Built-in dual-frequency GPS receiver offering multiple accuracy options • Integrated lightbar with 31 bright LEDs • Simple control buttons operate easy-to-use software • USB flash drive to transfer files for printing maps and reports	• A 10.4" color touch screen with plan and 3D views • Intuitive graphical layout • Works with any *Ag*GPS receiver • Removable data card to transfer files between displays or to the office

CHOOSE 8 DIFFERENT PATTERNS

HEADLAND	PIVOT	A-B PATTERN	IDENTICAL CURVE
			
A+PATTERN	**MULTI HEADLANDS**	**FREEFORM**	**ADAPTIVE CURVE**
			

AgGPS EZ-GUIDE SYSTEMS

AgGPS EZ-GUIDE 250 SYSTEM

15 bright guidance LEDs give you quick on-line visual feedback to keep you on track.

FreeForm™ guidance pattern offers the ultimate in guidance flexibility, allowing you to work in different patterns and shapes that best fit the layout and contours of your field.

The built-in GPS receiver provides submeter DGPS accuracy, or upgrade to 6" – 8" pass-to-pass accuracy with optional AG15 antenna.

The 4.3" color screen allows to you see at a glance where you are, where you've been and what you have been doing.

WAAS Submeter accuracy
EGNOS Submeter accuracy
MSAS Submeter accuracy

Simply transfer your day's coverage maps to your computer using a USB flash drive and easily print out coverage reports.

Following the leader just got easier. And more affordable.

AS a proven leader in GPS guidance technology, Case IH is proud to offer the new EZ-Guide® 250 lightbar guidance system. With common-sense interface and a color screen, the EZ-Guide 250 system is easy to operate right out of the box. Plus, you can upgrade to the EZ-Steer® 500 assisted steering system, delivering a total package priced far less than the competition.

www.PutYourFarmOnTheMap.com

FEATURE	EZ-GUIDE 250
Large widescreen color LCD	4.3"
Bright guidance LEDs	15
3D & 2D swath graphics	℘
Built-in GPS receiver	℘
OnPath® filter technology	℘
DGPS (WAAS/EGNOS/MSAS) submeter accuracy	℘
FreeForm guidance	℘
Coverage summary maps via USB	℘
Import/export fields via USB	℘
EZ-Steer 500 ready	℘
Easy to install RAM mount	℘
Radar speed output	℘
GPS (NMEA) output	℘
RTCM input	℘
T2® terrain compensation when used with EZ-Steer 500	℘

*Ag*GPS EZ-GUIDE SYSTEMS

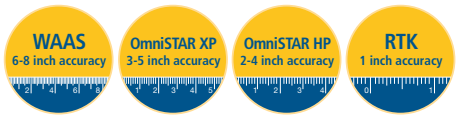
*Ag*GPS EZ-GUIDE 500 SYSTEM

With a built-in dual-frequency GPS receiver you get to choose your accuracy option without adding an extra GPS receiver to your cab.

31 bright LEDs give you quick on-line visual feedback in any light.

Choose from multiple guidance patterns, and between plan and 3D perspective views, to see where you are and what you've been doing.

Large buttons give you single-press control of all the main guidance functions, GPS status, Set-up and Help.



Simply transfer your day's coverage to your computer using a USB flash drive to generate printed maps and reports.

The world's first GPS lightbar with color display, mapping and steering capable of 1 inch accuracy.

The EZ-Guide 500 system represents revolutionary innovation in lightbar guidance systems. Because it has a built-in dual-frequency receiver, you get to choose the accuracy you need from 6"- 8" up to 1" pass-to-pass, year-to-year without adding another GPS receiver to your cab. When you need a GPS guidance system that saves you time, fuel and inputs, look no further than the EZ-Guide 500 system—the cornerstone of lightbar guidance, hands-free farming, and boom section control.

www.PutYourFarmOnTheMap.com

FEATURE	EZ-GUIDE 500
Large widescreen color LCD	7.0"
Bright guidance LEDs	31
3D & 2D swath graphics	℘
Built-in GPS receiver	℘
OnPath® filter technology	℘
DGPS (WAAS/EGNOS/MSAS) 6 – 8" accuracy	℘
OmniSTAR VBS 6 – 8" accuracy	℘
OmniSTAR XP/HP 3 – 5" accuracy	℘
RTK 1" accuracy	℘
FreeForm guidance	℘
Coverage summary maps via USB	℘
Import/export fields via USB	℘
EZ-Steer 500 ready	℘
EZ-Boom® ready	℘
Autopilot™ ready	℘
Radar speed output	℘
T2® terrain compensation when used with EZ-Steer 500	℘

*Ag*GPS FIELDMANAGER DISPLAY

*Ag*GPS FIELDMANAGER DISPLAY

Toggle between plan and 3D views or zoom in/out with just a tap of your finger.

A virtual lightbar gives you quick on-line feedback.

Powerful guidance capabilities allow you to choose from one of the many internal guidance patterns, or create your own custom pattern and import it from a GIS.

Large touch screen makes it easy to monitor and control all of your precision operations from a single display. All your work is saved on a removable data card.

Connects to any ***Ag***GPS® receiver from the ***Ag***GPS 132 DGPS receiver all the way to up to the ***Ag***GPS 442 GNSS receiver with GLONASS support.

The display to handle all of your farm's precision control needs.

The *Ag*GPS FieldManager™ display gives you everything you need at your fingertips on a large touch screen. Capable of handling all your automated steering, mapping and application control functions from the cab, the FieldManager display improves your efficiency where you need it most.

www.PutYourFarmOnTheMap.com

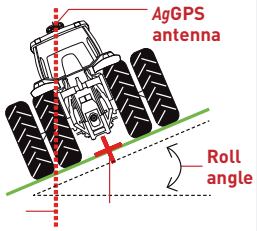
FEATURE	FIELDMANAGER
Large color LCD	10.4"
Plan and 3D views	℘
Mapping	℘
Variety and attribute record keeping	℘
EZ-Boom® ready	℘
Autopilot™ ready	℘
TrueTracker™ Implement Steering	℘
Multi-product variable rate application	℘
Planter monitoring and control	℘
Aircart/Seeding and control	℘
Liquid sprayer control	℘
Granular spreader control	℘
Anhydrous ammonia application	℘

*Ag*GPS EZ-STEER ASSISTED STEERING SYSTEM

*Ag*GPS EZ-STEER 500 SYSTEM

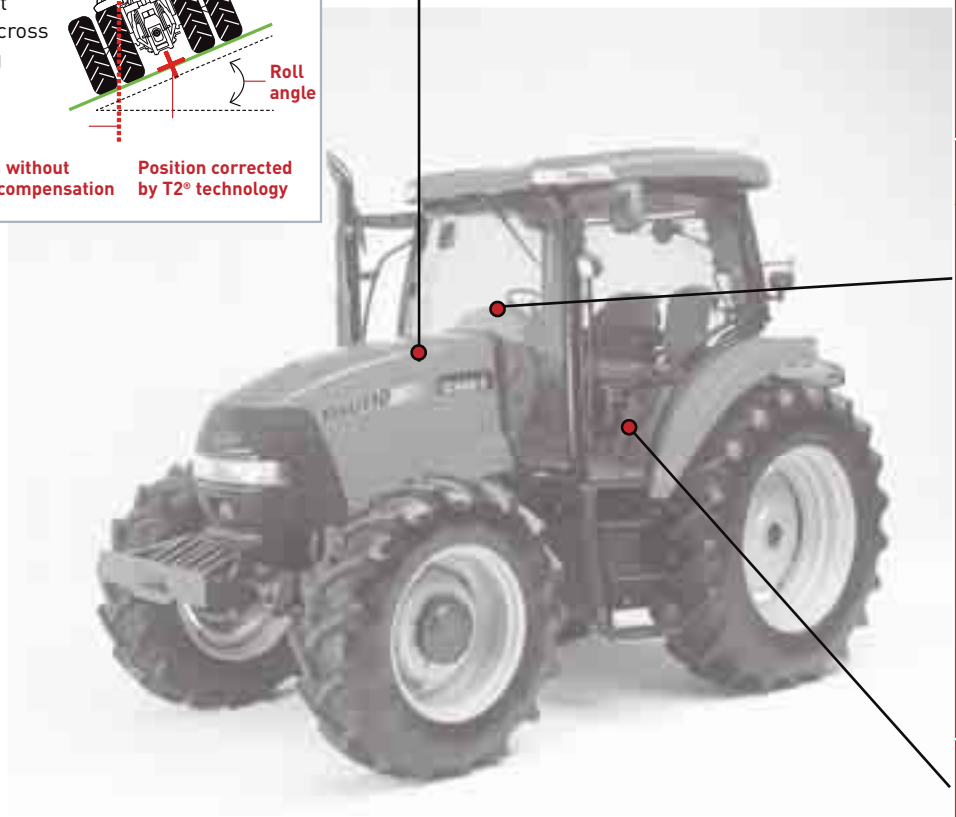
T2 TERRAIN COMPENSATION TECHNOLOGY

Improves accuracy when driving straight lines across sloping terrain



Position without terrain compensation

Position corrected by T2® technology



FOOT SWITCH

Engage and disengage the EZ-Steer system with the optional foot switch for hands-free farming.

EZ-STEER MOTOR

The EZ-Steer motor receives electrical signals from the EZ-Steer controller and converts them to precise commands that the vehicle's steering system uses to keep the vehicle on path.

EZ-STEER CONTROLLER

Using data from the GPS receiver the EZ-Steer controller sends precise instructions to the steering wheel motor. T2 technology continually corrects for roll and yaw by using state of the art 4-axis solid state inertial sensors to give you a true on-ground position.

Simple, portable hands-free farming for over 600 vehicle models—old and new.

The EZ-Steer® system turns the steering wheel for you by combining a friction wheel and a motor with GPS guidance from the EZ-Guide® 500 or the EZ-Guide 250 lightbars. While the EZ-Steer keeps you on line, you can focus on many different tasks, such as spray or planter performance, improving job quality and crop yields while reducing fatigue.

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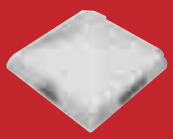
*Ag*GPS AUTOPILOT AUTOMATED STEERING SYSTEM

*Ag*GPS AUTOPILOT AUTOMATED STEERING SYSTEM

*Ag*GPS 252 RECEIVER



Rugged, all-in-one smart antenna designed for use with WAAS, OmniSTAR VBS XP/HP or RTK corrections.

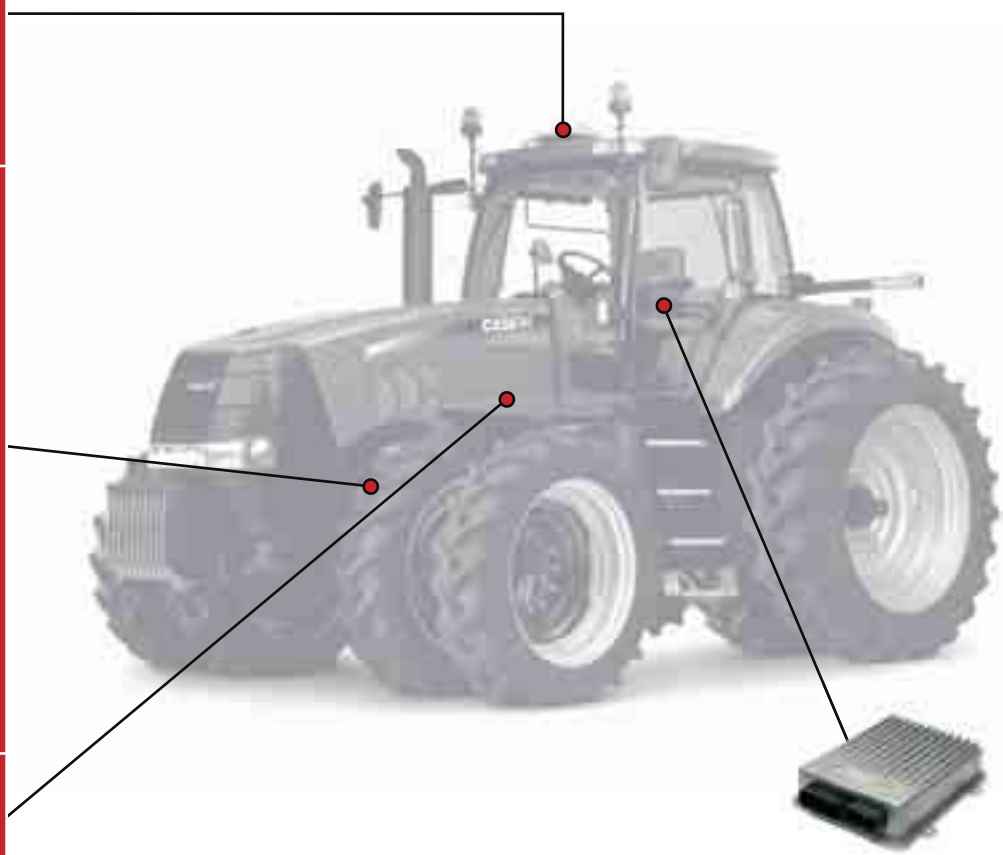
*Ag*GPS AUTOSENSE STEERING SENSOR

This unique steering sensor measures highly accurate wheel angle information on all terrain. With patent pending technology the AutoSense™ steering sensor obtains information—without the use of moving parts or linkages—and continuously sends that information to the *Ag*GPS NavController II.

VEHICLE INTERFACE

The vehicle interface receives navigation commands from the *Ag*GPS NavController II which control the vehicle's steering when engaged. The *Ag*GPS Autopilot system supports ISO 11783, fly-by-wire, factory auto guidance components, or hydraulic control valves.

The *Ag*GPS® Autopilot™ automated steering system provides one inch repeatability from plant to harvest with any field pattern, and extends your operating hours with incredible precision.



RTK GPS Networks

RTK networks currently cover over 150 million acres of North American farmland with additional acreage being added all the time. A network consists of a number of fixed RTK base stations that independently broadcast RTK correction signals so the vehicle can obtain sub-inch accuracy. Contact the Case IH dealer in your area to find out if they provide a correctional signal.

*Ag*GPS NAVCONTROLLER II

Plug-and-play the NavController II into most guidance ready vehicles.

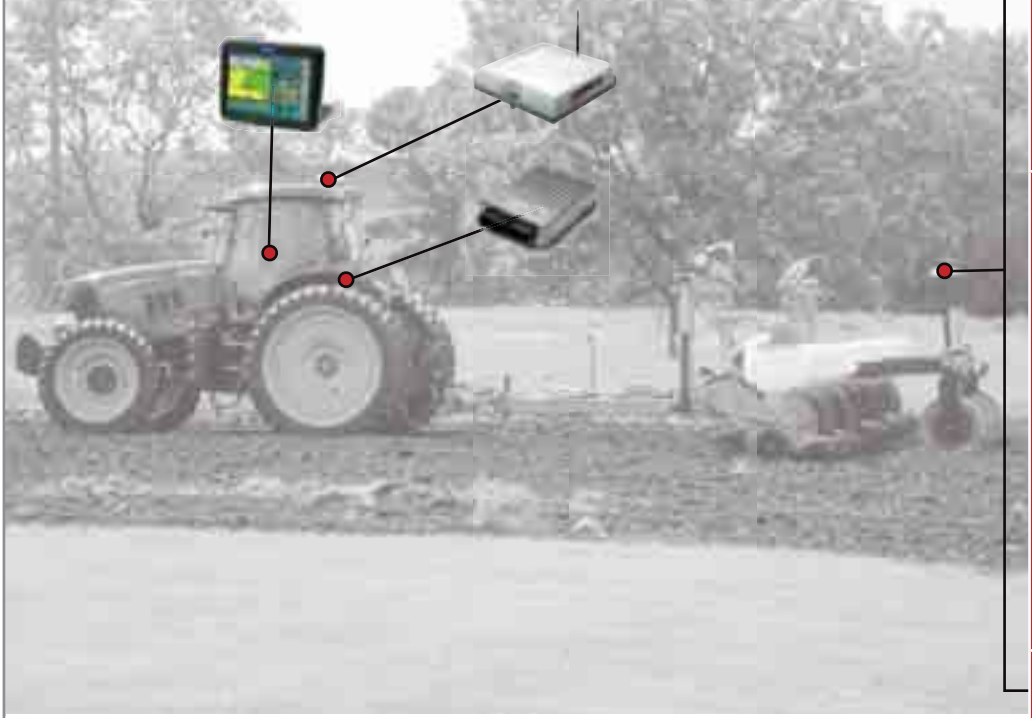
T3™ technology continually corrects for roll, pitch, and yaw by using state of the art 6-axis solid state inertial sensors to give you a true on-ground position.

*Ag*GPS TRUETRACKER IMPLEMENT STEERING SYSTEM

*Ag*GPS AUTOPILOT RTK AND TRUETRACKER IMPLEMENT STEERING SYSTEMS

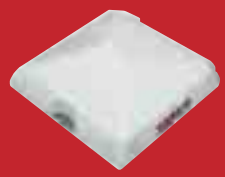
RTK SYSTEM

For +/-1 inch accuracy you can use the RTK network provided by the Case IH dealer in your area, or set-up an RTK base station on your farm to send corrected GPS positions to your tractor via radio.



*Ag*GPS TRUETRACKER IMPLEMENT STEERING SYSTEM

*Ag*GPS 252 RECEIVER



The *Ag*GPS 252 receiver mounts to the implement to provide 1" pass-to-pass and year-to-year accuracy to the NavController II mounted on the implement.

*Ag*GPS NAVCONTROLLER II

The NavController II sends T3 terrain compensated corrections and precise steering instructions to the implement by using guidance information from the FieldManager display and RTK positions from the 252 receiver mounted on the implement.

IMPLEMENT GUIDANCE SYSTEM

The TrueTracker implement steering system works with any implement that can be mechanically steered. This includes potato equipment, planters, strip tillage rigs, and 3-point mounted equipment. Supplemental systems such as the Orthman® Tracker IV or Sunco Acura Trak can be added to most implements making them controllable with the TrueTracker system.

*Ag*GPS TrueTracker implement steering system

The *Ag*GPS® TrueTracker™ system keeps implements on a repeatable path, even on extremely sloped fields and variable soils. It includes a GPS receiver and T3 terrain compensation technology mounted on the implement. The *Ag*GPS FieldManager™ display in the tractor communicates guidance information to the TrueTracker system, instantly adjusting implements such as tillage tools, strip tillers, drills and planters, cultivators, sprayers and harvesters to follow directly in the path of the tractor. With repeatable accuracy the TrueTracker system improves seedbed and nutrient placement helping to enhance crop stands and yields.

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PLANTER

PLANTER

GROUND SPEED SENSOR

Ground speed sensor provides accurate vehicle speed information for precise product control.

IMPLEMENT SWITCH

Implement switch enables ON/OFF control based on implement position.

HOPPER LEVEL SENSOR

Hopper level sensor provides real time feedback on hopper level status in planter applications.

PLANTER APPLICATION MODULES

Monitors and controls all sensors in the system while communicating with the FieldManager display.

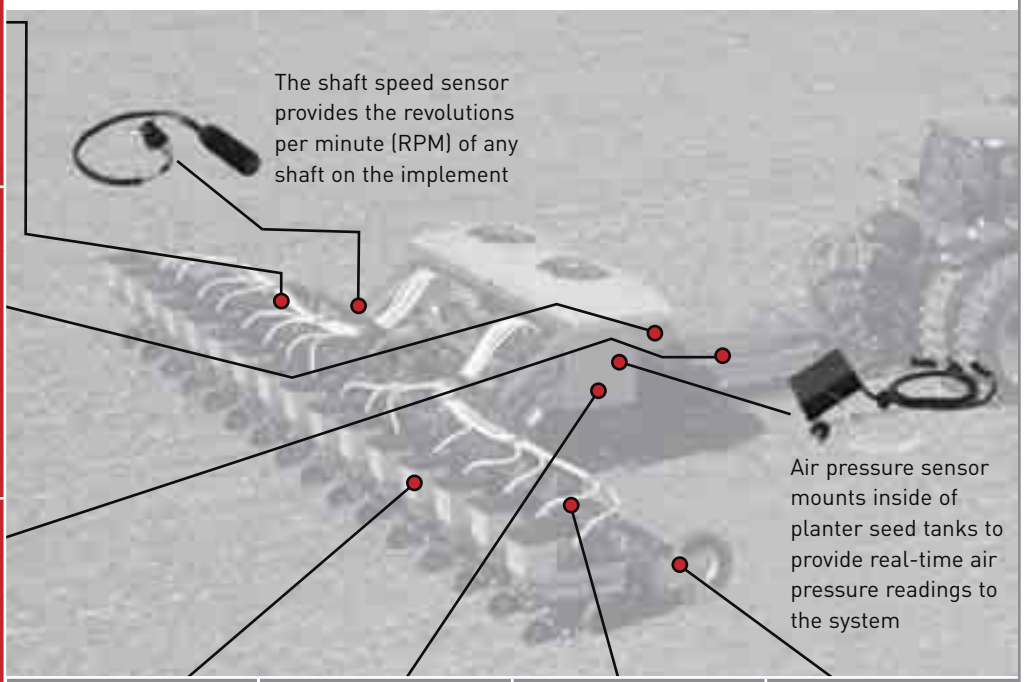
PRODUCT MONITORING

Liquid flow meter ensures accurate feedback to the liquid control channel for optimal control accuracy.

Accurate monitoring and control for planter applications

In combination with the *Ag*GPS® FieldManager™ display, the planter functionality allows for seed, liquid, and granular application by providing:

- Monitoring and control for up to 4 products
- Monitoring for up to 148 rows of seeding (population and blockage type sensors supported)
- Monitoring for 1 hopper level sensor
- Monitoring for 1 air pressure or 1 RPM sensor
- Implement switch input for ON/OFF control based on implement position
- The choice of speed input (GPS, Radar, or the ability to enter Manual Speed)
- Advanced mapping with the ability to track varieties and log attributes
- Variable Rate Technology (VRT) capabilities
- Advanced overlap control via Tru Count clutches



SEED SENSOR	SHAFT SPEED MONITORING	TRU COUNT CLUTCH CONTROL	PRODUCT CONTROL
			
Blockage or high rate population style seed sensor provides seed population or blockage information to the system.	Application rate sensor measures shaft rotation speed, enabling accurate feedback for product control.	Automatically controls planter rows ON/OFF for precise seed placement.	Seed, liquid, and granular control via pulse width modulated hydraulic valves and/or servo valves.

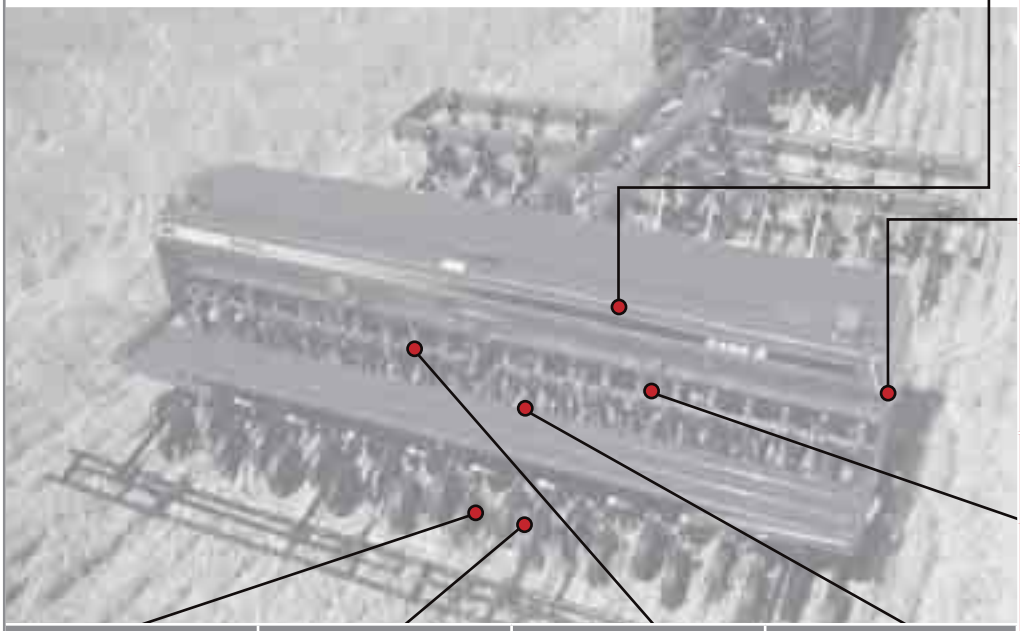
DRILL

DRILL

Accurate monitoring and control for drill applications

In combination with the *Ag*GPS FieldManager display, the drill functionality allows for seeding, liquid, and granular application by providing:

- Monitoring and control for up to 4 products
- Monitoring for up to 148 rows of seeding (population and blockage type sensors supported)
- Monitoring for 1 hopper level sensor
- Monitoring for 1 air pressure or 1 RPM sensor
- Implement switch input for ON/OFF control based on implement position
- The choice of speed input (GPS, Radar, or the ability to enter Manual Speed)
- Advanced mapping with the ability to track varieties and log attributes
- Variable Rate Technology (VRT) capabilities



PRODUCT CONTROL

Seed, liquid, and granular control via pulse width, modulated hydraulic valves, and/or servo valves.

SHAFT SPEED MONITORING

Application rate sensor measures shaft rotation speed, enabling accurate feedback for product control.

SHAFT SPEED (RPM) SENSOR

Shaft speed sensor provides the revolutions per minute (RPM) of any shaft on the implement.

SEED SENSOR

Blockage or high rate style seed sensor provides seed population or blockage information to the system.

GROUND SPEED SENSOR

Ground speed sensor provides accurate vehicle speed information for precise product control.

HOPPER LEVEL SENSOR

Hopper level sensor provides real time feedback on hopper level status in drill applications.

IMPLEMENT SWITCH

Implement switch enables ON/OFF control based on implement position.

DRILL APPLICATION MODULES

Monitors and controls all sensors in the system while communicating with the FieldManager display.

PRODUCT MONITORING

Liquid flow meter ensures accurate feedback to the liquid control channel for optimal control accuracy.

AIR SEEDER

AIR SEEDER

HOPPER LEVEL SENSOR

Hopper level sensor provides real time feedback on hopper level status in air seeding applications.

AIR PRESSURE SENSOR

Air pressure sensor mounts inside of air seeder seed tanks to provide real time air pressure readings to the system.

AIR SEEDER APPLICATION MODULES

Monitors and controls all sensors in the system while communicating with the FieldManager display.

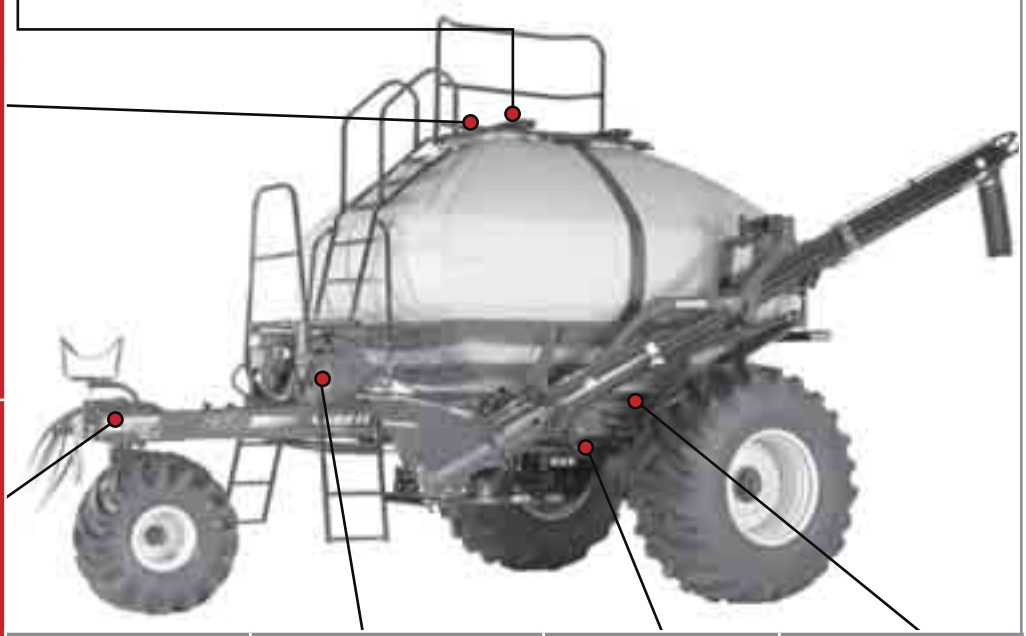
PRODUCT MONITORING

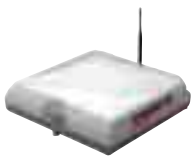
Liquid flow meter ensures accurate feedback to the liquid control channel for optimal control accuracy.

Accurate monitoring and control for air seeding applications

In combination with the *Ag*GPS® FieldManager™ display the air seeding functionality allows for seed, liquid, granular, and anhydrous ammonia (NH3) application by providing:

- Monitoring and control for up to 4 products
- Monitoring for up to 148 rows of seeding
- Monitoring for up to 4 hopper level sensors
- Monitoring for up to 4 air pressure sensors
- Monitoring for up to 3 RPM sensors
- Implement switch input for ON/OFF control based on implement position
- The choice of speed input (GPS, Radar, or the ability to enter Manual Speed)
- Advanced mapping with the ability to track varieties and log attributes
- Variable Rate Technology (VRT) capabilities



GROUND SPEED SENSOR	SHAFT SPEED (RPM) SENSOR	SHAFT SPEED MONITORING	PRODUCT CONTROL
 Ground speed sensor provides accurate vehicle speed information for precise product control.	 Shaft speed sensor provides the revolutions per minute (RPM) of any shaft on the implement. The sensor can easily count teeth on a gear, magnets on a shaft, or lug nuts on a wheel.	 Application rate sensor measures shaft rotation speed, enabling accurate feedback for product control.	 Seed, liquid, granular, and NH3 control via pulse width modulated hydraulic valves and/or servo valves.

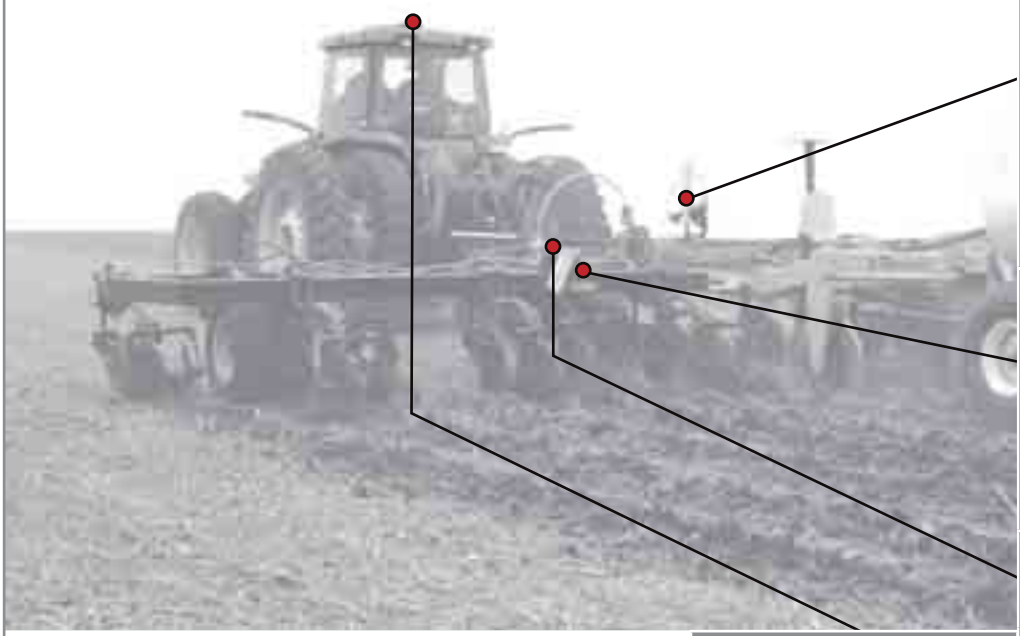
ANHYDROUS

ANHYDROUS

Accurate monitoring and control for anhydrous applications

In combination with the *Ag*GPS FieldManager display, the anhydrous functionality allows for accurate anhydrous ammonia (NH3) application by providing:

- Monitoring and control for up to 2 products
- Implement switch input for ON/OFF control based on implement position
- The choice of speed input (GPS, Radar, or the ability to enter Manual Speed)
- Advanced mapping with the ability to track NH3 activities and log attributes
- Variable Rate Technology (VRT) capabilities



PRODUCT CONTROL

Anhydrous ammonia (NH3) control via servo valves.

HEAT EXCHANGER

NH3 heat exchanger ensures optimal anhydrous application by enabling faster runs at lower tank pressures.

IMPLEMENT SWITCH

Implement switch enables ON/OFF control based on implement position.

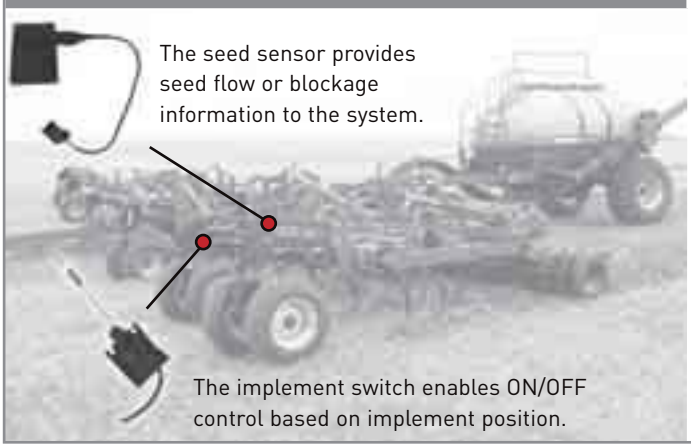
ANHYDROUS APPLICATION MODULES

Monitors and controls all sensors in the system while communicating with the FieldManager display.

PRODUCT MONITORING

Anhydrous ammonia (NH3) flow meter is designed specifically for accurate anhydrous flow.

SEED SENSOR & IMPLEMENT SWITCH



The seed sensor provides seed flow or blockage information to the system.

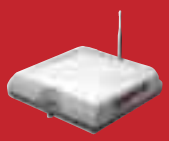
The implement switch enables ON/OFF control based on implement position.

GROUND SPEED SENSORS

Ground speed sensors provide accurate vehicle speed information for precise product control. GPS, Radar, and Manual modes provide the ultimate in flexibility in selecting a ground speed source that fits the users preference.

SPRAYER

GROUND SPEED SENSORS



Ground speed sensors provide accurate vehicle speed information for precise product control. GPS, Radar, and Manual modes provide the ultimate in flexibility in selecting a ground speed source that fits the user's preference. A back-up mode ensures the user will always have a speed source for system control.

PRODUCT MONITORING

Liquid flow meter ensures accurate feedback to the liquid control channel for optimal control accuracy. Multiple flow meter options ensures the optimal solution based on the application.

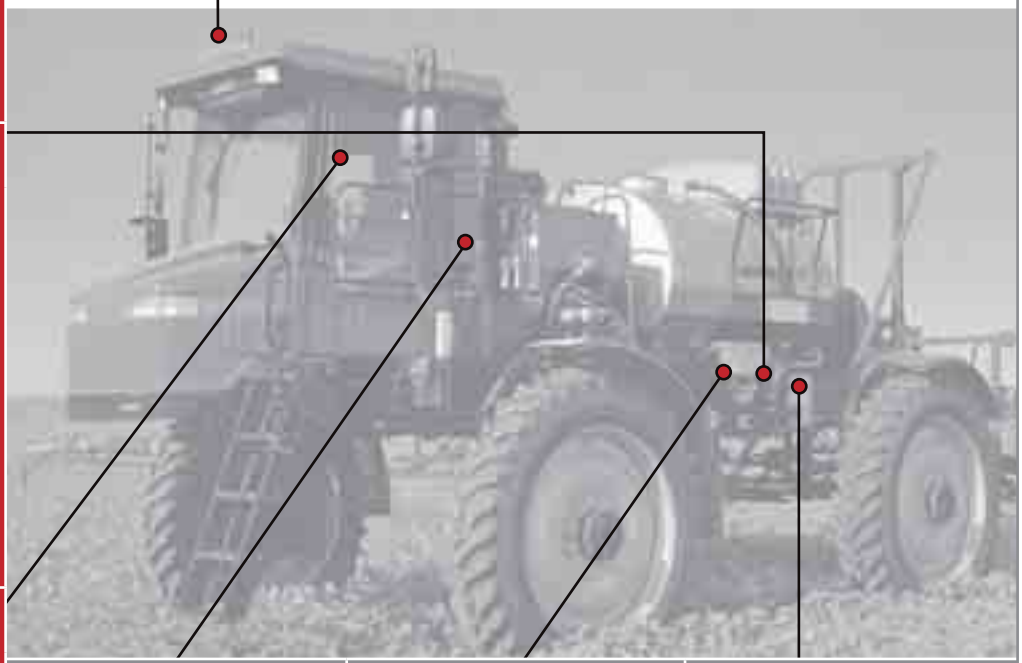
SPRAY BOOM CONTROL

Automatically controls spray booms ON/OFF for precise spray coverage. The ability to control each boom ON/OFF increases spraying accuracy reducing chemical costs and losses associated with unnecessary skips and overlap.

Accurate monitoring and control for spraying applications

In combination with the *Ag*GPS® FieldManager™ display, the sprayer functionality allows for accurate liquid application by providing:

- Monitoring and control for up to 4 products
- Monitoring for up to 4 pressure sensors
- Monitoring for up to 3 RPM sensors
- The choice of speed input (GPS, Radar, or the ability to enter Manual Speed)
- Advanced mapping with the ability to track spraying activities and log attributes
- Variable Rate Technology (VRT) capabilities
- Advanced overlap control with the ability to turn boom sections ON/OFF



SPRAYER APPLICATION MODULE	PRODUCT CONTROL	PRESSURE MONITORING
		
Monitors and controls all sensors in the system while communicating with the FieldManager display.	Liquid control via pulse width modulated hydraulic valves and/or servo valves.	Reads liquid pressure for real time pressure monitoring via the FieldManager display.

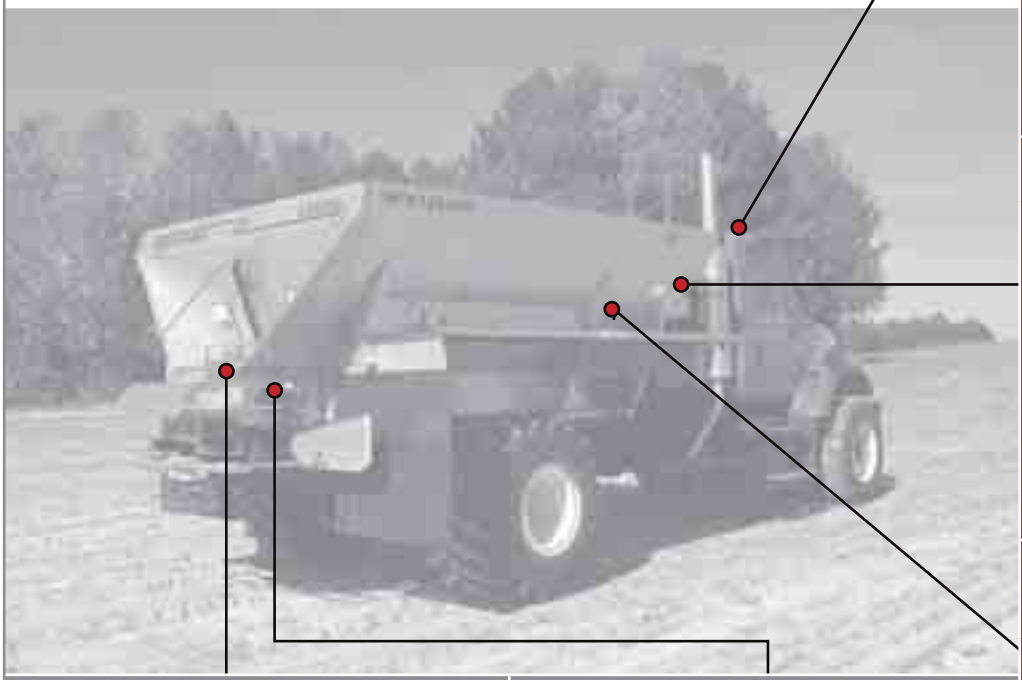
SPREADER

SPREADER

Accurate monitoring and control for spreading applications

In combination with the AgGPS FieldManager display, the spreader functionality allows for accurate granular application by providing:

- Monitoring and control for up to 4 products
- Monitoring for up to 3 hopper level sensors
- Monitoring for up to 3 RPM sensors
- The choice of speed input (GPS, Radar, or the ability to enter Manual Speed)
- Advanced mapping with the ability to track spreading activities and log attributes
- Variable Rate Technology (VRT) capabilities



GROUND SPEED SENSORS

Ground speed sensors provide accurate vehicle speed information for precise product control. GPS, Radar, and Manual modes provide the ultimate in flexibility in selecting a ground speed source that fits the user's preference. A back-up mode ensures the user will always have a speed source for system control.

PRODUCT CONTROL

Granular control via pulse width modulated hydraulic valves and/or servo valves. Utilized to control metering shafts.

SPREADER APPLICATION MODULE

Monitors and controls all sensors in the system while communicating with the FieldManager Display. Main module supports all sensors required to accurately control the spreader application.

SHAFT SPEED MONITORING

Application rate sensor measures shaft rotation speed, enabling accurate feedback for product control.

SHAFT SPEED (RPM) SENSOR

Shaft speed sensor provides the revolutions per minute (RPM) of any shaft on the implement. The sensor can easily count teeth on a gear, magnets on a shaft or lug nuts on a wheel.

*Ag*GPS EZ-BOOM 2010 AUTOMATED APPLICATION SYSTEM

*Ag*GPS EZ-BOOM 2010 AUTOMATED APPLICATION CONTROL SYSTEM

Cut your farm's input costs immediately using the *Ag*GPS® EZ-Boom® 2010 automated boom switching and spray rate controller system for your next field application. Now, using GPS, up to ten boom sections can be automatically turned on and off to avoid overspray and untreated gaps on end rows—resulting in more precise application for all field work and less stress on the operator when navigating headlands, waterways and other demanding driving situations.

AUTOMATED BOOM SWITCHES

Ten user defined boom sections use GPS positions from the AgGPS® EZ-Guide® 500 lightbar, AgGPS EZ-Guide Plus lightbar or the AgGPS FieldManager™ display to automatically detect boom sections that need to be turned on or off for precise coverage. The ten switches can also be used for manual control of boom sections.

RATE SWITCHES

The R1 and R2 switches can be set to predefined rates so when changing from one application to another it's just a flick of the switch to change the application rate. With the + and − switch you can increase or decrease the current application rates when your field requires a quick change.

CONNECTORS

- One cable connects the EZ-Boom 2010 system to the display.
- Another cable connects the EZ-Boom 2010 system directly to existing flow meters and valves, so the EZ-Boom system is simple to plug and play into your sprayer system—adding automatic boom switching all in the same box.

GPS INPUT

The EZ-Boom 2010 system uses GPS to measure the speed and position of the vehicle, which determines the flow rate and the on-off boom switching.

DISPLAY OPTIONS

*Ag*GPS EZ-GUIDE PLUS LIGHTBAR	*Ag*GPS EZ-GUIDE 500 LIGHTBAR	*Ag*GPS FIELDMANAGER DISPLAY
		

LASER CONTROL SYSTEMS

INCREASE PRODUCTIVITY WITH QUICK SETUP AND REMOTE GRADE CHANGE

LASERS

SPECTRA PRECISION® LASER GL400 SERIES

Automatic self-leveling gives you a fast and easy horizontal level

Automatic temperature and grade compensation ensures high accuracy in any weather conditions or geographical location

Wide grade range means both lasers can be used for a range of slope applications:
» GL412: -10% to 15% in one axis
» GL422: -10% to 15% in both axis

Full function, two-way, radio remote controls are standard with both lasers, allowing you to change grades without actually going to the laser. Features include:
» Grade Reverse up to 330 ft. from the laser
» A built-in backlight display
» One-person setup and operation (all transmitter functions are automatically controlled from inside the vehicle)

Available with either an HR550 or CR600 hand-held display

GL400 SERIES FEATURES BY MODEL

MODEL	LL400	GL412	GL422
Radio Remote	✓	✓	✓
Auto Axis Alignment Grade Match Mode PlaneLok		✓	✓
Axis Grade Range X	Level Only	–10∅+15%	–10∅+15%
Axis Grade Range Y	Level Only	Level Only	–10∅+15%
Precision Compensation		✓	✓

AgGPS RECEIVERS

OUR COMMITMENT...

Case IH's leading-edge *Ag*GPS® receiver solutions are more than just receivers. They are a range of receivers, antennas, and smart antennas that offer an accuracy and price point to suit any farming operation, budget and vehicle. Built to withstand harsh agricultural conditions, these GPS solutions combine with Case IH guidance systems to enable farmers worldwide to work more efficiently, reduce input costs, and allow them to work in extreme conditions.

*Ag*GPS 442 AND 432 GPS RECEIVERS

The addition of GLONASS and L2C signals gives the *Ag*GPS 442 receiver excellent performance in tough satellite environments and areas with intermittent periods of GPS signal availability.

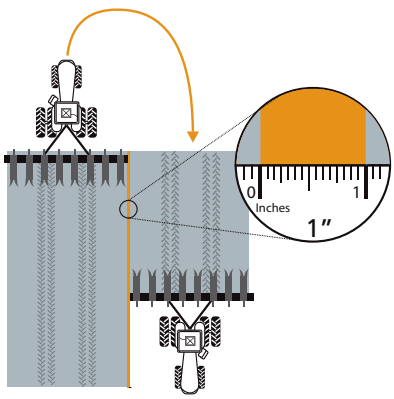
- With advanced 72 channel L1/L2/L2C/GLONASS/RTK capabilities, the 442 receiver is an excellent high accuracy RTK receiver using a local RTK network or base station
- The *Ag*GPS 432 receiver utilizes the same receiver hardware as the *Ag*GPS 442 but does not have GLONASS tracking capability enabled. The *Ag*GPS 432 can be upgraded with a passcode to track GLONASS satellites
- The integrated display and keypad gives you quick access to configuration
- Repeatable year-to-year accuracy

*Ag*GPS 332 ULTIMATE CHOICE

Complete flexibility for better accuracy when you need it from the latest in high performance dual-frequency receiver technology.

- Your choice of accuracy level depending on your operation including DGPS Beacon, WAAS, EGNOS, OmniSTAR VBS, high accuracy OmniSTAR HP/XP, or RTK (with a base station)
- Easy upgrade to a higher accuracy level
- Gives you repeatable year-to-year accuracy for row crop operation and makes any operational changes quick and easy

RTK

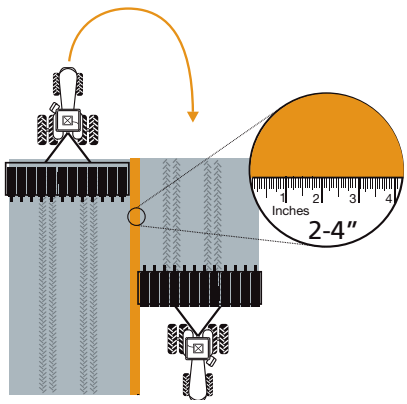


+/-1" pass-to-pass

+/-1" year-to-year repeatable

*Ag*GPS 442 GNSS receiver
*Ag*GPS 332 receiver
*Ag*GPS 252 receiver

OMNISTAR HP



+/-2–4" pass-to-pass

+/-4" year-to-year repeatable

*Ag*GPS 332 receiver
*Ag*GPS 252 receiver

*Ag*GPS RECEIVERS

*Ag*GPS RECEIVERS

YOUR CHOICE...

Case IH is committed to providing the range of GPS accuracy required for optimal productivity in the field. To choose a receiver, the first consideration is the accuracy level required for your operations. The second consideration is what type of real-time correction signal is available in your area. Use the diagrams and information below to decide what level of GPS accuracy and real-time source your operation requires.

AgGPS 252 RECEIVER

All in one, low profile GPS/DGPS/ RTK receiver and antenna.

- Low-profile, high performance dual-frequency GPS receiver and antenna
- Your choice of accuracy level depending on your operation including WAAS, EGNOS, OmniSTAR VBS or high accuracy OmniSTAR HP/XP, or RTK (with a base station)
- Easy upgrade to a higher accuracy level
- Gives you repeatable year-to-year row crop operation

AgGPS 900 RADIO

Rugged low-profile design suitable for all agriculture applications.

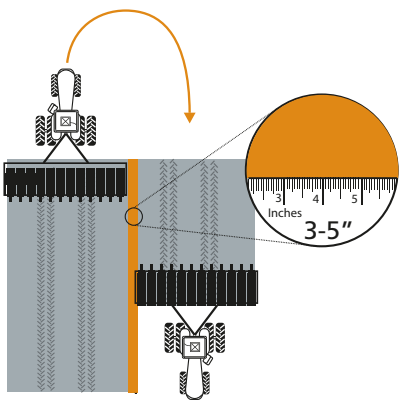
- Highly reliable even in the most demanding radio frequency environments
- Versatile, with a frequency range that can receive real-time data used by Case IH GPS receivers
- License free in North America, Canada, Australia, and New Zealand

AFS 100 SMART ANTENNA

All-weather low-cost DGPS smart antenna for yield or field mapping.

- WAAS/EGNOS differential GPS receiver and antenna combined in a compact, robust, weatherproof housing
- Provides DGPS information to any precision agriculture equipment that accepts NMEA
- Simple, strong magnetic mounting
- Plug-and-play operation

OMNISTAR XP

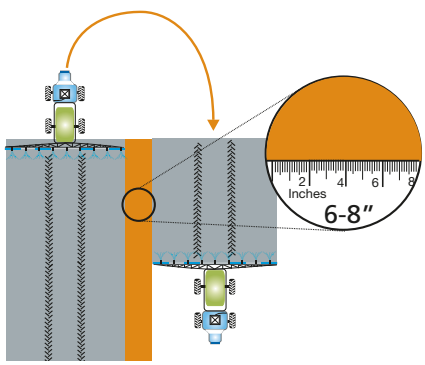


+/-3–5" pass-to-pass

+/-8" year-to-year repeatable

*Ag*GPS 332 receiver
*Ag*GPS 252 receiver

OMNISTAR VBS, BEACON, WAAS, EGNOS



+/-6–8" pass-to-pass

+/-3' year-to-year repeatable

*Ag*GPS 332 receiver
*Ag*GPS 252 receiver

GPS GLOSSARY

GPS ACCURACY DEFINITIONS

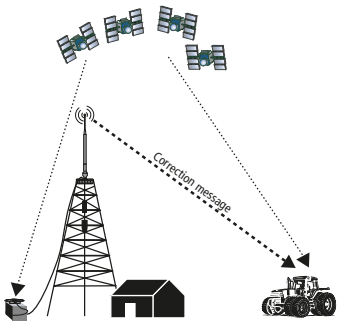
GPS ACCURACY DEFINITIONS >

Pass-to-Pass accuracy measures the relative accuracy over a 15 minute interval. This is usually thought of as guess row error when driving rows, or skip/overlap from one pass to the next when driving swaths. A Case IH GPS receiver with pass-to-pass accuracy of +/- 4 inches means you get less than four inches skip or overlap, 95% of the time.

Year-to-Year accuracy is the measure of repeatable accuracy that you can drive the same rows a day, week, month, or year later. So, +/- 1 inch year-to-year accuracy means you can drive the same rows next year within one inch of this year's rows, 95% of the time.

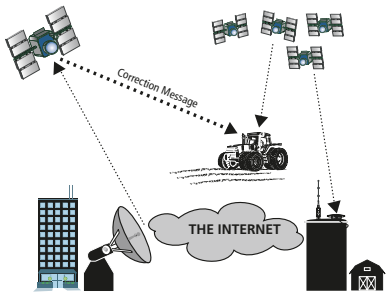
GPS EXPLAINED

RTK (REAL TIME KINEMATIC)



This is a highly precise technique that results in one inch year-to-year accuracy. RTK GPS requires two specialized GPS receivers and two radios. One GPS receiver is set up as a base station within a 8 mile (12 kilometer) radius of the field you are working so it can send the correction message to the roving receiver. Both receivers collect extra data from the GPS satellites, known as L2 Band, that enables better precision.

DIFFERENTIAL GPS (DGPS) WITH WAAS AND OMNISTAR CORRECTION



The vehicle with a GPS antenna receives GPS signals from the GPS satellite constellation. The WAAS and OmniSTAR services have many GPS receivers at known reference locations that send the correction messages to control stations which then uplink the message to a geostationary satellite (WAAS or OmniSTAR). The geostationary satellite (WAAS or OmniSTAR) then sends the correction message to the GPS antenna on the vehicle, which applies the correction.

WHY IS GLONASS AND L2C IMPORTANT FOR HIGH ACCURACY?

GLONASS is a partially operational satellite navigation system developed by the Russian government. GPS refers to the U.S. Department of Defense (DOD) NAVSTAR constellation. The new GPS satellites include additional civilian GPS signals—L2C—for more robust signal tracking.

RTK requires reliable satellite availability to get a position fix, and the addition of GLONASS and L2C signals gives the user improved constellation acquisition capabilities.

The *Ag*GPS 442 GNSS receiver, with the ability to process GLONASS and L2C satellite signals, offers users a higher level of "productivity insurance" than other receivers. This new capability will help improve signal availability for certain RTK applications that rely heavily on "z" or vertical axis satellite positioning data, and for RTK users at certain times in some areas.

CASE IH AGRICULTURE

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