



# PRECISION TECHNOLOGY

## GUIDE

2025



**NEW HOLLAND**



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Below is a list of specific platforms that will be used throughout the Technology Product Guide. Each icon represents what platform is compatible with individual products offered through New Holland. The icons clearly indicate whether the product is factory fit (FF) or an aftermarket (AM) solution and if it is ISOBUS compatible. Also, it will indicate if connectivity is available through the FieldOps™ portal. Please contact your Regional Precision Manager or PLM Support for all compatibility solutions.



**Fixed Frame Tractors:** T8, T7 HD, T7, T6 and TS6 series tractors



**Utility Tractors:** T4 F/V, WORKMASTER, PowerStar and T5 series tractors



**4WD Tractors:** T9 series tractors



**Combines:** CR and CX series combines & FR cruisers



**Sprayers:** Guardian series sprayers



**Tillage**



**Air Drills and Air Carts**



**Large Square Balers**



**Round Balers**



**Windrowers**



**Factory Fit:** Products available and installed at the factory on the machine



**Aftermarket:** Products available and sold through CNH Parts, not a factory option



**ISOBUS:** Equipment meets ISOBUS compliant standards



**FieldOps Integrated:** Technology that can be visualized in FieldOps



## CHAPTER 1

# PRODUCT CONTROL

### Why is product control important?

Every crop deserves the best possible chance to thrive. Precise product control ensures each section of the field gets the nutrients, pest control, or boosts it needs to live up to its fullest yield potential. Use product control to apply exactly what each section needs — no more, no less.





## RATE CONTROLLER

### Raven Rate Control Module (RCM)

The Rate Control Module (RCM) is the most versatile controller on the market. Built on the Raven legacy of application innovation, this state-of-the-art module can run up to six profiles, accepts device plug-ins and instantly recognizes every program and file. RCM makes it easy to start your workflow immediately—hasslefree. RCM fits a variety of applications — product and granular control, anhydrous ammonia, air carts, generic applicators, planters, and seeders. Its customizable user interfaces give you the flexibility to see and control what fits your needs. Plus, the magnetic mount allows the RCM to move easily between machines and implements without resetting machine configurations.

#### Key Product Features

- Easy to calibrate, tune, and troubleshoot with diagnostic tests and readings.
- Supports over 200 different applications, including air seeders, planters, sprayers, spreaders, tool bars, and side dress applications.
- Stores up to 8 transferable individual profiles that can be used across machines, ensuring a consistent user interface.
- Compatible with many ISOBUS virtual terminals.



## SPRAYER NOZZLE CONTROL

### IntelliSpray™ II

Get the best possible chance at maintaining the ideal chemical application rate, pressure and accuracy, regardless of speed or terrain.

#### Key Product Features

- Optimizes application rates and droplet sizes for consistent application.
- Sprays at faster speeds or applies more product as needed with 17% higher flow rates.
- Compensates for different speeds across the boom to ensure correct application rates during turns.

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## SEEDER METERING SYSTEM

### IntelliRate™ Modular Metering System

IntelliRate™ is a variable rate and section control system that allows you to control rate and flow applications on multiple brands of air drill using an integrated New Holland IntelliView IV, IntelliView IV Plus, and IntelliView 12 display.

#### Key Product Features

- Industry leading section control turns off air drill sections automatically when encountering areas that have already been covered, or at headland turns, point rows, waterways, and terraces.
- Ultimate In-blending Flexibility allows operators to apply seed, fertilizer, or granular products in a single pass.
- Variable rate application using pre-loaded prescription maps to better manage field variability.
- New Curve Compensation option to maximize product accuracy with reduced input costs.



Product  
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# PRODUCT CONTROL

## Multi-Product

Multi-Product allows for the repeatable setup and tracking of multiple products on individual implements tracking exact product placement.

### Key Product Features

- Products can easily be created and saved within the display screen of the IntelliView™ 12 Product Library or in your FieldOps account then sent to a specific machine.
- Customize seed and fertilizer assignment to individual implements.
- After proper set up, crucial as-applied tracking is achieved of products and product applications for data analysis, record keeping, and documentation.
- Superior visualization of the product assignments across the entire implement to ensure placement by the machine in the field.



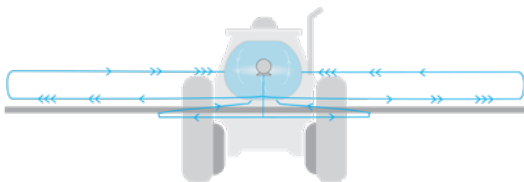
## PRODUCT CONTROL

### Augmenta® Field Analyzer

The Augmenta Field Analyzer makes efficient use of every input using intuitive Computer Vision and Machine Learning (CVML) to get the right amount of input in the right place at the right time, every time. Augmenta gives growers real-time variable rate application for nitrogen, harvest aid, desiccant, PGR, fungicide, and herbicide applications in one simple, cab-mounted sensor. It also automates field inspection and data mapping, enabling agronomists to make more precise recommendations.

#### Key Product Features

- Mounts on top of the cab in most CAN and ISOBUS sprayers to control VRA machinery.
- Used in nitrogen, PGR, harvest aid, and fungicide applications.
- Approved for use in Wheat, Barley, Small Grains, Corn, Cotton, Canola/Rapeseed, Soybeans, Beans, other Legumes & Pulses.
- Used to increase application quality and input cost/use efficiency.
- Ability to use agronomists' recommendations while compensating for your farm's variability.



## BOOM PRIME/CIRCULATION Raven Boom Recirculation

The Raven Boom Recirculation™ System helps achieve uniform and correct product application. Boom Prime™ prepares each individual nozzle, beginning on the outside of the boom. Nozzles are opened in timed sections, each one purging remaining chemical before moving down to the next section on the boom until boom priming is complete. Boom Recirculation uses add-on hardware to aid in efficient clean-out of the boom and plumbing system. By circulating liquid from the outside tip of the boom and back to the center section, product settling is reduced and waste is eliminated.

### Key Product Features

- Boom Recirculation uses add-on hardware to aid in efficient clean out of the boom and plumbing system.
- By circulating liquid from the outside tip of the boom and back to the center section, product settling is reduced, and waste is eliminated.
- Boom Recirculation is activated on your machine with a software upgrade through IntelliSpray™ or IntelliSpray™ II.



## SPRAYER SECTION CONTROL

### Section Control

Sprayer section control automatically turns off boom sections when the sprayer enters an area that has already been sprayed and turns the sections back on when leaving the applied area.

#### Key Product Features

- Automatic on-off control for up to 10 sections.
- Adjustable look ahead function lets you adjust settings easily for the overlap you choose.
- Speed compensation function accounts for how fast you are driving and ensures properly timed shut-off.
- Standard on every Guardian sprayer.
- Use of an optional remote control to help check nozzles quickly.



## AUTOBOOM HEIGHT

### IntelliHeight™ XRT Boom Height Control

IntelliHeight™ XRT uses non-contact radar sensors (in place of ultrasonic sensors) to protect against harmful dipping that can cause the boom, and your crops, to break down. Here's how it works: The system uses OEM-installed sensors in tandem with IntelliHeight XRT sensors. Together, they monitor the ground, canopy height and every movement of the machine — then use the information to automatically adjust the boom to stay within its intended position.

#### Key Product Features

- Non-contact radar sensors (in place of ultrasonic sensors) to protect against harmful dipping that can cause the boom, and your crops, to break down.
- IntelliHeight XRT keeps the boom at the intended height for better coverage and efficacy.
- Monitors the ground, canopy height and every movement of the machine to automatically adjust the boom to stay within its intended position.





## SPRAYER DIRECT INJECTION

### Raven Sidekick Pro™ Direct Injection

The Raven Sidekick Pro™ direct injection system sets a new standard for chemical applications. No tank mixing is required, and with the industry's first automatic calibration feature, you're ready to go in minutes.

#### Key Product Features

- Up to 5 direct injection units on one machine, allowing easy switching between fields and applications with IntelliSpray™ II.
- Rinse Assist for Direct Injection automatically cleans chemical tank with the push of a button.
- No pre-mixing, tank mixing, cross-contamination or clean out required; reducing waste from unused product.
- Powerful positive displacement pump which injects on the pressure side, closer to the boom, for faster response time.
- Reduced chemical exposure means additional safety for the operator.
- Gives you greater flexibility with multiple chemicals in applications to tackle weed resistance and other challenges.




# SPECIALTY SPRAYER CONTROL

## Raven Air Blast Sprayer Application Kit

Be more efficient and save on inputs in specialty applications with the Raven Air Blast Sprayer Kits. Customers can choose the level of air blast spray precision they would like to use. The Base Kit enables rate and section controls to reduce chemical waste. The Upgraded Kits further enhance precision by adding Hawkeye® 2 Nozzle Control.

### Key Product Features

- Reduce chemical waste by automatically controlling rate and section shut-offs, ensuring obstacles stay input-free.
- Reduce idle and non-application time, skips, overlaps, and mistakes by sharing coverage with multiple units.
- Are easy to calibrate and operate, making job setup easy.
- Gives you accurate data records and documentation for regulatory and operational needs.

An abstract background pattern of blue lines and dots forming a complex, interconnected network, resembling a molecular structure or a data network, set against a dark blue gradient background.

## CHAPTER 2

# MACHINE AUTOMATION

### **Why is machine automation important?**

Farming without machine automation requires a lot of detailed tasks to be completed in short time windows. This requires a lot of skill, which can be hard to find in today's constrained labor market. Machine automation takes a lot of tasks and makes them seamless, easy and efficient, helping farmers save time and money while focusing on the big picture.



## COMBINE AUTOMATION

### IntelliSense™ Combine Automation

The IntelliSense™ system monitors the threshing and cleaning process and adjusts the combine continuously to increase productivity and reduce grain loss. Settings are optimized toward a pre-selected harvest strategy of maximum capacity, best grain quality or limited loss.

#### Key Product Features

- Proactively adjusts the combine as crop conditions change.
- You choose the level of automation from three modes; maximum capacity, best grain quality or limited loss.
- Works with industry-first sensor technology measuring cleaning show load and grain loss every 20 seconds.
- Coupled with the Grain Cam grain quality sensor, IntelliSense will adjust rotor vanes and cleaning shoe settings to reduce grain loss and increase ground speed.



## CROP ANALYSIS

### NutriSense™ NIR Sensor

The award-winning NutriSense™ NIR crop analysis sensing system lets you view crop nutrients and dry matter in real-time from your New Holland CR combine. With data from your NutriSense system, you can increase crop yields, maximize profits, and support year-on-year improvements in input management, yield and nutrient quality.

#### Key Product Features

- The award-winning NutriSense™ NIR crop analysis sensing system lets you view crop nutrients and dry matter in real-time from your New Holland CR combine.
- With data from your NutriSense system, you can increase crop yields, maximize profits, and support year-on-year improvements in input management, yield and nutrient quality.



## ANALYSIS

### NutriSense™ NIR Slurry

Near-Infrared Spectroscopy (NIR) technology to map the constituents of manure that is applied via dragline or tanker. Compatible with the IntelliView™ 12 display, customers can view in real-time Nitrogen, Ammonium, Phosphorus, Potassium and Dry Matter levels and make on the go adjustments. Also, when coupled with a CNH Rate Controller, customers can use the tractor speed feature to increase the precision application of manure to apply at target rate.

As-applied maps are seamlessly sent to FieldOps for viewing and creation of layered reports.

#### Key Product Features

- ISOBUS Interface. Supported for use thru the IntelliView 12 display\*. CNH Rate Control Module (RCM) provides an ISOBUS interface and communication to NIR sensor and Kali module.
- On-board Mapping of 5 manure constituents through the IntelliView 12 display\*: Nitrogen, Ammonium, Phosphorus, Potassium, Dry Matter
- Supported Applications:
  - Pig, cow, digestate, and mixed slurry
  - Tanker
  - Dragline – Manual tractor speed by operator



## CROP ANALYSIS

### NutriSense™ NIR Sensor

The award-winning NutriSense™ NIR crop analysis sensing system lets you view crop nutrients and dry matter in real-time from your New Holland FR Series Forage Cruiser. With data from your NutriSense system, you can increase crop yields, maximize profits, and support year-on-year improvements in input management, yield and nutrient quality.

#### Key Product Features

- Measures many key parameters such as moisture, crude protein, starch, and more
- Can be installed on a wide variety of machinery: forage harvesters, combines, slurry tankers, feed mixers, etc.
- Many uses on the farm:
  - Analyzing a wide variety of crops during harvest
  - Tracking nutrient applications
  - Analyzing feed rations
- Exceptional benefits to the customer:
  - Determine crop quality during harvest. Increase profitability by allowing crop to be sold by quality and not just quantity
  - Accurately calculate the amount of additive to apply on crop
  - Make better decisions for livestock nutrition
  - Plan variable-rate fertilizer application for future crop



# AUTOMATIC GRAIN CART SYNC

## Raven Cart Automation™

Raven Cart Automation will gives harvesting operators an extremely reliable option for automating unload on-the-go operations in straight swaths. Raven Cart Automation is easy to use. When the grain cart driver is in range (within 70m / 229 feet) of the harvester on a straight swath, the operator can sync the cart's direction and speed with the auger of the combine. This reduces the amount of complex communication needed between operators, reducing the amount of grain spills and the possibility of collisions.

### Key Product Features

- Minimizes grain spillage when unloading on-the-go, maximizing profits.
- Increases field efficiency by reducing slow down events during the unload cycle in some cases.
- Reduces stressful events for tractor and combine operators in small grain.
- Uses local radio communication for more reliable sync.
- Can sync up to six grain cart and combine systems in one operation.





# LARGE SQUARE BALER AUTOMATION

## IntelliSense™ Bale Automation

The first technology of its kind, IntelliSense Bale Automation pushes the boundaries of baling innovation and transforms the way customers and operators approach large square baling. The system combines LiDAR swath guidance with IntelliCruise II(TM) Feedrate Control for a complete, hands-free, steering and speed controlled experience.

### Key Product Features

- Consistent bale length and weight, due to maintaining consistent flake count.
- Increase efficiency in the field with optimum engine performance and baler productivity
- Simplified operator experience in easy to run, user-friendly system.
- Increase capacity of baler — the baler will command the tractor to speed up in lighter windrows to reach the desired stuffer/plunger ration without input from the operator.
- See page 64 for the part numbers of the activations required for baler automation.




## ROUND BALER AUTOMATION

### IntelliBale™ Baler Automation

Automate your round-baling functions to help reduce your fatigue and produce more uniform bales during long days of baling.

#### Key Product Features

- Tractor will automatically stop when target bale size is reached.
- Net wrap is applied automatically to bale.
- Baler tailgate will raise and lower automatically to eject wrapped bale.
- At this point the operator can shuttle forward and the tractor will return to desired baling speed.
- Round Baler Automation results in reduced repetitive operator actions and optimized cycle times, ensuring maximum efficiency.
- See page 64 for the part numbers of the activations required for baler automation.

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## CHAPTER 3

# DISPLAY SOLUTIONS

### **Why are display solutions important?**

A machine's in-cab display transforms operators' work every day. It is the primary touch point for every function, controlling countless precision technologies and machine settings. The display also gives operators an in-depth view of their operation in real-time. Choosing the right display helps operators make the most of each day.



## COLOR DISPLAY IntelliView™ 12

The IntelliView™ 12 monitor delivers a wide range of machine benefits at your fingertips. It not only controls key equipment functions, it allows you to control precision applications such as auto guidance and as-applied mapping.

### Key Product Features

- Maximizes control and automation in the cab.
- Remote Display Viewing – with customer permission.
- Remotely view the display in real time
- Remotely diagnose issues to limit downtime
- Large, colorful 12" screen for rich visualization and intuitive response.
- Anti-glare screen for superior visibility day or night.
- The IntelliView™ 12 display is the primary display on T8, T9, T7 LWB, T7HD (when equipped with PLMi) series tractors, Guardian sprayers, and Next Gen CR Series Combine.
- On T9, T8, Guardian Sprayers and Next Gen CR Series Combine utilizing dual IntelliView™ 12 displays is an option.
- Supports up to 4 camera inputs for monitoring field tasks.



## COLOR DISPLAY

### IntelliView™ IV

The IntelliView™ IV display is an intuitive, color touchscreen display that can be integrated from the factory in numerous New Holland vehicle models. Alternatively, the display is available in a kit enabling it to be installed on almost any agricultural vehicle.

#### Key Product Features

- Record important data and maps to use for future management decisions.
- Operates six customizable run screens that allow producers to configure what they want to monitor and/or control.
- Monitor any ISOBUS-compliant New Holland or competitive implement data/functions.

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## COLOR DISPLAY

### IntelliView™ IV Plus

The IntelliView™ IV Plus provides customers with a similar user interface as the IntelliView™ IV, optimized for a larger, higher resolution display.

#### Key Product Features

- The IntelliView IV Plus adopts the same hardware (12 inch display) as the IntelliView™ 12 with functionality like the IntelliView IV.
- The IntelliView IV Plus is currently available from the factory on the SWB T7, T6, and T5.
- The IntelliView IV plus supports both factory fit and aftermarket installation of telematics (PCM) and RS1/Cygnus receivers.
- IntelliView IV Plus supports dual display functionality.
- Monitor ISOBUS-compliant New Holland or competitive implements.



## RAVEN COLOR DISPLAY Viper® 4+

Viper® 4+ is the go-to in-cab data manager for producers and dispatchers. Commonly used for seeding, spraying, and spreading applications, Viper 4+ connects producers to the ecosystem of analytics for increased operational efficiencies. The 12.1-inch touchscreen makes pre-planning and application easy and intuitive. It provides complete accuracy for the dispatcher—ensuring the job information is entered correctly, the machine is in the right field and the correct prescriptions are applied.

### Key Product Features

- Works with all brands of equipment.
- Intuitive and rugged. Dust-proof for tough environments.
- Wireless over-the-air software updates.
- Customizable user and machine interfaces.
- 4 camera inputs for monitoring bin levels, blind spots, roadway operation, and more.
- On-screen implement location with section status.
- Remotely view display with customer permission, diagnosing issues to limit downtime.



## RAVEN FIELD PLANNING DISPLAY CR12®+

The CR12®+ ensures you stay on-track in every season, from planting through application to harvest. Its powerful user interface gives you expert-level efficiency at an accessible level and affordable price. Introduce CR12+ to your fields and reap the benefits of faster job creation, easier integration across multiple brands of equipment, and more comprehensive data management capabilities.

### Key Product Features

- Simplified guidance controls. Create, swap, rename, and manage guidance lines all in one widget, making in-job adjustments easier.
- Moves easily from machine to machine.
- Auto field boundaries keep you organized effortlessly.
- Controls up to 255 sections via ISOBUS.
- Boundary and guidance line options.
- Recommended for up to 5-product control.
- Straight A-B, A+, Pivot, Contour, and Last Pass guidance.
- ISOBUS Task Controller capabilities.





## RAVEN LIGHTWEIGHT DISPLAY CR7®+

The CR7+ is easy to plug in and use for all operations, including planting, seeding, application, and harvest. Its lightweight build and versatile user interface adjusts for each unique implement. With seamless automatic guidance controls, CR7+ empowers you to easily run more complex equipment and operations at an affordable price point.

### Key Product Features

- Simplified guidance controls. Create, swap, rename, and manage guidance lines all in one widget, making in-job adjustments easier.
- Auto field boundaries keep you organized automatically.
- ISO Task Controller functionality available.
- Controls up to 255 sections via ISOBUS.
- Controls up to 5 products.
- Straight A-B, A plus heading, pivot, contour, and last pass guidance.
- Easily manage each field operation by programming all your guidance lines.

An abstract graphic in the top left corner consisting of a network of blue lines and dots, resembling a molecular structure or a complex web, set against a dark blue background.

## CHAPTER 4

# GUIDANCE SOLUTIONS

### **Why are guidance solutions important?**

A successful season hinges on reliable, repeatable driving through each row. Without precise guidance, you risk running over crops, missing headland turns, or driving inefficient routes that cost time and money. Automatic guidance solutions ensure operators' machines and implements stay on-track with GNSS-based precision, keeping their rows straight and their assets safe.



## HYDRAULIC STEERING

### IntelliSteer™

IntelliSteer™ is a fully integrated New Holland designed and developed Automatic Steering System. It is the ultimate guidance solution which offers complete machine direction control at the touch of a button. It uses a single integrated display with the IntelliView™ IV, IntelliView IV Plus or IntelliView™ 12 for machine functions, auto guidance, mapping and implement control. The solution includes Terrain Compensation technology to calculate and correct the roll, pitch and yaw of the machine to help minimize skips and overlaps in areas with rolling terrain and rough ground.

#### Key Product Features

- Repeatable Pass-to-Pass and Year-to-Year.
- Accuracy levels as close to 1 inch (2.5cm).
- WAAS, PLM 1, PLM 2, PLM 3, PLM RTK+, RTK all offer Correction Offerings.
- Available with factory-installed PLM IntelliSteer:
- T9, T8, T7, T6, and T5 series tractors
- Available as a retrofit system that can be integrated into most brands and equipment models.

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## GPS RECEIVER

### Cygnus Receiver

The Cygnus receiver ensures accurate autoguidance in all terrains with flexible accuracy and guidance performance for your operation. With a fully integrated architecture, Cygnus gives you accurate positioning, velocity and heading data in all conditions independent of GNSS, keeping you on track at all times.

#### Key Product Features

- Auto Smoothing improves pass-to-pass accuracy and reduces overlaps and skips.
- Auto Line Hold improves guidance transitions between different correction source levels.
- Integrated Guidance Controller helps the receiver adjust to the pitch, yaw, and roll of the terrain.
- RTK Fill automatically falls back to PLM 2 (<2 inch) accuracy to maintain a high level of guidance.
- Available on T9, T8, T7 LWB, Guardian Sprayer and CR Series Combines.



## IMPLEMENT GUIDANCE

### Active Implement Guidance

Active Implement Guidance is a single display system that gives customers more yield potential while ensuring more accurate repeatable seed and nutrient placement. Our system significantly reduces implement drift, reducing crop damage and operator stress while ultimately increasing yield potential.

New Holland Active Implement Guidance works with a wide variety of implements and applications.

Compatible Product Offering			
Implement Platform	Implement Models	Control Type	Part Number
Case IH Early Riser Planter	2140, 2150, 2150S	Steerable Hitch	117-4020-100
Spudnik Potato Planter	8040, 8060, 8080	Rear Wheel Steer	117-4020-102
Generic Steerable Hitch Impl		Steerable Hitch	117-4020-101
Generic Rear Steer Impl		Rear Wheel Steer	117-4020-103

Other implements using a generic profile may require additional tuning to achieve desired performance.



## AUTO GUIDANCE

### Raven RS1™

Raven RS1™ is a high-powered GPS solution that combines autosteer, GPS, and connectivity into one unit.

#### Key Product Features

- Geared for a wide range of terrain with enhanced steering performance and 3D rugged-terrain compensation.
- Allows faster coverage with better accuracy.
- Easy to transfer from machine to machine.
- Pre-set profiles automatically transfer between machines.
- Compatible with both ISO Steer Ready and Raven Aftermarket Steering Controllers.



## STEERING CONTROLLER SC1™

Coupled with a Raven display and GPS solution of your choice, SC1™ is designed to provide cutting-edge, hands-free machine steering. Incredible accuracy at both high and low speeds with quick line acquire improves efficiency and gives you the power to cover more acres in a day.

### Key Product Features

- Installs in cab with direct interface for ISOBUS valve.
- Enhanced steering performance with incredible accuracy up to 29 mph (46.7 km/h).
- Machine-specific tune sets.
- Utilizes external GPS/GNSS with Raven 700S, 500S™ or third-party GPS.
- Compatible with Viper® 4+, CR12™, and CR7™.
- Ability to upgrade to Slingshot with additional hardware or GPS/GNSS solution.



## CELLULAR RTK

### New Holland PLM RTK+

PLM RTK+ is a sub inch cellular delivered accuracy signal for use in auto guidance systems. The PLM RTK+ Portal is the dealer interface to the RTK+ system. From here you can verify status of rovers (equipment) as well as the base stations that make the RTK+ Network. This can be extremely useful if there is ever a need to trouble shoot a unit operating on PLM RTK+.

#### Key Product Features

- Accuracies as tight as 1 inch (2.5cm).
- No line-of-sight requirements.
- Repeatable year-to-year.





## GPS RECEIVER

### Raven 500S™

The 500S features a simple setup and quick convergence time, tracking GPS, GLONASS, Galileo, and BeiDou for improved strength in any environment. Fixed or magnetic mounting options make it ideal for portable and dynamic applications.

#### Key Product Features

- Quick convergence time.
- Sub-meter pass-to-pass accuracy.
- Seamless integration.
- Supports GS-Lite and GS.
- Compact, low-profile design.
- Fixed or magnetic mounting options.
- Durable enclosure.



## GPS RECEIVER

### Raven 700S™

The 700S is a fully scalable GNSS smart antenna that comes standard with GLONASS and Autonomous dual-frequency GL1DE™ technology and can be upgraded to GS Pro or RTK sub-inch accuracy to enhance your precision technology suite.

#### Key Product Features

- High performance dual-frequency receiver.
- Sub-meter pass-to-pass accuracy.
- Full scalability for enhanced accuracy.
- Autonomous dual-frequency GL1DE, SBAS, GS, GS Pro, GS-Lite, and RTK.
- Simple and fast setup.
- Seamless integration.
- Magnetic mount.
- RTK-L and RTK Pro capable.

Upgrading to Satellite GS Pro or RTK corrections will enhance the performance of your steering system, variable rate applications, planter and seeder controls, AccuBoom™ section control, and Hawkeye® nozzle control. Unlock full functionalities by upgrading to GS, GS Pro, GS-Lite or RTK corrections.



## TURN AUTOMATION

### IntelliTurn™ - Automatic End-of-Row Turning

IntelliTurn™ facilitates an Automatic End-of-Row-Turn feature for vehicles equipped with an IntelliSteer™ system. IntelliTurn is a simple, user-friendly auto turn feature that is easy to operate and further increases productivity for our New Holland customers. It improves machine efficiency by minimizing "out of work" time during an end-of-row turn.

#### Key Product Features

- Hands-free, automatic and repeatable turns for increased productivity and reduced operator fatigue.
- IntelliTurn features a direct integration with the tractor's Headland Turn Sequence (HTS) II automated end-of-row turning system. When using the GPS trigger function the operator can program the system to automatically turn the tractor at the end of a swath, and perform a headland turn sequence all at once.



## EQUIPMENT COORDINATION

### IntelliField™

IntelliField™ provides real-time in-field data sharing capability for boundaries, guidance lines, and coverage data when multiple machines are operating in the same field.

Customers can transfer data and utilize IntelliField with no recurring cost to them.

#### Key Product Features

- Over the air sharing of boundaries and lines.
- Near real time sharing of coverage maps, minimizing skips and overlaps.
- Up to six vehicles in the same job can share data.
- Enable section control based on operation coverage at the field level.
- Gather more accurate data on tillage, planting, seeding, nutrient application, spraying and harvest.
- Customers using legacy machines can still utilize the IntelliField functionality by installing a PCMF onto their machine(s).

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## VISION GUIDANCE Raven VSN®

VSN® is a non-contact camera-based unit that transforms machine guidance through emerged to full canopy crops. It adapts to row variances in real-time so crops stay unharmed. VSN automatically takes care of steering, reducing operator fatigue and giving them the energy to cover more ground with less worry.

### Key Product Features

- Allows the operator to cover more acres due to increased speed (20+ mph), more efficient field planning, and ease of use.
- Quick, one-time calibration with up to five saved profiles for easy crop transitions.
- Operators experience a significantly less stress compared to steering manually, allowing them to increase the average length of their workday.
- Use controlled traffic patterns to actual planted rows minimizing crop damage.
- Non-contact radar sensors available to guide the machine in full canopy crop.



## AUTO SPRAYER BOOM FOLD

### Auto Fold Booms

Auto Fold Booms is a single button function that allows the operation to fold and unfold the sprayer boom automatically to save time and eliminate the possibility of boom damage.

#### Key Product Features

- Get moving faster with an automated fold/unfold feature — push and hold the service brake, then push and release the AutoFold switch on the Integrated SideWinder Ultra Armrest.
- Reduces operator error and equipment downtime.



## NEW HOLLAND INTELLIVIEW™ 12 GUIDANCE KIT

The New Holland IntelliView™ 12 Guidance Kit includes an IntelliView™ 12 display, Cygnus™ Receiver, either a hydraulic or electric steering unit, and PCM modem. These components continue driving toward our goal to streamline and unify our factory fit and aftermarket offerings.

### Key Product Features

- The IntelliView 12 Guidance Kit offers autoguidance, precision farming, and connectivity functionality.
- Remote Display Viewing and Firmware Over-the-Air is supported.
- 5 Year Connectivity Included subscription comes standard with the IntelliView 12 Guidance Kit.
- A common New Holland user experience with the IntelliView 12 display, even in legacy New Holland and competitive machines.



## INTELLIVIEW™ IV PLUS GUIDANCE KIT

The IntelliView IV Plus Guidance Kit gives customers an enhanced autoguidance experience with the familiar user interface they are used to from the IntelliView IV. The kit includes the New Holland RS1 receiver for autoguidance ready legacy machines.

### Key Product Features

- Improved Visibility and Readability in sunlight with 35% larger screen than the IntelliView IV
- Quicker boot time and faster processing during multiple tasks
- Direct replacement for IntelliView IV displays paired Trimble 372/392 receivers and NAV II or III controllers on select tractor models and platforms.





## GRAPE HARVESTER GUIDANCE

### SmartSteer

SmartSteer™ automatic guidance allows the machine to remain centered in the row automatically without any action from the driver. It uses an infrared projector and a 3D camera to detect each row, allowing you to work day and night with consistent guidance.

#### Key Product Features

- Automatically follows the vine row by using an infrared vision system based on the travel time which detects and models the canopy.
- Automatically adjusts the harvesting head to increase guidance accuracy.
- Allows the driver to concentrate on machine settings and site management.
- Automatically deactivated once the operator retakes control of the machine's steering
- Autoguidance works at all growing stages of the vine, with precision of +/- 3.9 in up to 6.2 mph
- Infrared technology allows for day or night operation, no GPS connection required.
- Reduces operator stress and fatigue.

An abstract graphic in the top left corner consisting of a network of blue lines and dots, resembling a molecular structure or a complex web, set against a dark blue background.

## CHAPTER 5

# CONNECTED EXPERIENCE

Seamlessly manage fleets, optimizing productivity from anywhere at any time. With the New Holland connected experience, farmers stay connected to every machine's performance, every trusted expert that helps make decisions, and every technician that helps keep things running. Getting customers connected is a key step in ensuring they make the best decisions to improve their farm's productivity and profitability.



## WEB & MOBILE FARM MANAGEMENT

### New Holland FieldOps™

The FieldOps™ web and mobile farm management platform is now live and available for download on the iOS App Store and Google Play Store. FieldOps is a versatile farm management tool that helps farmers expand their productivity from anywhere, anytime by taking their farm operations data and details and simplifying them into one platform that's easy to use, understand and connect. Its intuitive interface empowers users to make more informed and quicker data-driven decisions that improve their operations every day.

#### Key Product Features

- Manually create and upload field boundaries or use highly accurate RTK generated boundaries.
- FieldOps also allows users to share relevant agronomic data with preferred business partners — agronomists, dealers or consultants — to optimize time.
- Overlay yield data over field maps to see the conditions that may be affecting yields.
- FieldOps is free to anyone, simply login to [mynewholland.com](http://mynewholland.com) or [fieldops.newholland.com](http://fieldops.newholland.com) to create an account.

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# MYNEWHOLLAND

## BRAND PRECISION PAGES MYNEWHOLLAND.COM

The MyNewHolland portal helps you to run and manage all your equipment, and find documents and resources to help you work more efficiently.

### Key Product Features

- MyNewHolland.com is one location to access FieldOps, manage your fleet and products, access troubleshooting and maintenance tips, and video walkthroughs.
- Once machines are registered, maintenance tips and information specific to that machine will be populated into a customer's MyNewHolland.com account.
- MyNewHolland.com is free to all users.
- Help customers select you as their preferred dealer through MyNewHolland.com.



## SEED/NUTRIENT PRESCRIPTIONS

### New Holland FieldOps™ RX

The prescription creation tool can use existing soil topography data or previous applications to generate new variable-rate prescriptions and management zones that are perfectly suited to your fields.

#### Key Product Features

- Prescriptions are created in FieldOps and can be pushed over the air to a machine or uploaded via a USB flash drive.
- You can use pre-existing automated activity layers, machine data or even soil layers as the basis for creating your prescription management zones.
- Seed prescriptions allow the user to vary the rate of seed or nutrient amounts in specific areas of the field.



## CONNECTIVITY MODEM PCM/PCMf

The PCM provides customers a gateway into their equipment with 4G cellular coverage – supporting simultaneous FieldOps™ connectivity and NTRIP capabilities.

### Key Product Features

- Standard on all New Holland T9, T8, T7 LWB series tractors, CR & CX series combines, FR Forage Cruisers, Self-Propelled Windrowers, and Guardian Sprayers.
- Connectivity Included, eliminating subscription fees and renewals.
- Upgrade existing equipment to a PCMf (aftermarket PCM variant) to add FieldOps integrated technology to IntelliView IV / IntelliView IV Plus equipped machines.
- Activations and subscriptions purchased through the Vehicle Management System (VMS) are stored on the PCM/PCMf.



# REMOTE MONITORING & VIEWING

## Remote Display Viewing (RDV)

Remote Display Viewing is an essential feature for deeper machine monitoring and easy coordination with operators using the IntelliView™ 12 display. You can easily launch RDV from the FieldOps Equipment List from a machine's Details view. Then, you can see exactly what the operator is seeing on the IntelliView 12 within the FieldOps™ app, so you can give real-time guidance.

### Key Product Features

- Remote service tool allows dealers to remotely identify maintenance and service needs and proactively determine what parts may be needed without ever needing to make a trip to the field.
- When using remote display viewing, only the operator in the cab of the equipment can make the changes to the display, while being guided by the person on the other end.
- As you click on your screen remotely, a blue finger will appear on the Pro 1200 display to advise the operator where to click.
- RDV can only be performed on equipment with an IntelliView™ 12 display.

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## RAVEN SLINGSHOT®

Raven Slingshot® is the preferred data management and logistics solution for agriculture operators across the world. Slingshot's holistic suite of operations management software and tools syncs your agricultural operations across machines, offices, and devices. With its connectivity and logistics features, Slingshot will improve your ability to make informed decisions, reduce redundancies, avoid misapplications, and provide visibility across your entire fleet, fields, and jobs.

### Key Product Features

- Slingshot connectivity provides a large range of real-time dispatch, information sharing, monitoring, and reporting analytics to increase accuracy and efficiency — right from your computer, tablet, in-cab display or cell phone.
- Send custom work orders and detailed prescriptions to each machine seamlessly.
- Ability to connect Slingshot to FieldOps through an API data share allows you to view agronomic data from Slingshot in FieldOps.
- Eliminates redundancies in multi-machine applications with real-time data sharing.





## FIELD HUB 2.1

The Field Hub 2.1 modem brings reliable and fast 4G LTE to your cab no matter where you are in the field. The reliable in-cab modem links your operator, managers and Slingshot® support to one another on one centralized network in real time. Effortlessly enjoy full web-based capabilities on your field computer and other mobile devices with reliable high-speed connectivity.

### Key Product Features

- 4G LTE modem connects to most mobile networks worldwide.
- Also supports 3G or lower networks (where available).
- Ethernet port allows for full Internet connectivity to Raven field computers, as well as other compatible devices.
- WiFi hotspot provides robust wireless access to laptops and other mobile devices in the cab.
- Connects to most modern GNSS positioning systems directly via serial port for cellular RTK streaming. Integrated GPS for easily tracking location of equipment on Slingshot Fleet Tracking portals.



## ENTRY LEVEL TELEMATICS CM1X

The CM1X modem is a basic telematics solution that allows customers to manage their fleet in FieldOps™ to track their vehicle utilization, location, and remotely view key vehicle information that can assist with planning preventative maintenance. The CM1X modems include a free 5 year EasyLink subscription with the hardware purchase.

### Key Product Features

- Allows for location visualization in FieldOps of truck and other fleet vehicles for improved coordination and logistics.
- Ability to monitor last reported vehicle parameters.
- Machine breadcrumbing allows the user to know everywhere that machine has traveled.
- Setup a geofence, so if a machine travels outside of the designated area alerts can be sent.
- Ability to add competitive units to FieldOps to complete the fleet.



## CHAPTER 6

# ADDITIONAL INFORMATION

In this section you will find other useful information, such as activations, subscriptions, and other accessories.

# CYGNUS RECEIVER ORDERING

Adding a Cygnus receiver enables WAAS autoguidance correction with no additional hardware or activations needed to steer the machine. A Cygnus receiver can be added at the factory, or it can be added later through Parts. It is important to note that when ordering a tractor, the receiver can be upgraded to different correction system levels from the factory. See the below excerpt from the FieldOps Magnum price book for different ordering options.

A WAAS correction signal is standard from the factory when a Cygnus receiver is ordered but no upgrade is chosen for the receiver. Consult the below ordering chart to upgrade the receiver to more accurate correction signals. In order to have autoguidance capability you need to order a Cygnus receiver. Accuracy upgrades can be purchased through the Vehicle Management System tool.

AUTOGUIDANCE READY	
Factory Fit Order Code	Description
483049	<b>Cygnus Base - GPS Receiver</b> WAAS Ready Capable of running PLM1
483051	<b>Cygnus Medium - GPS Receiver</b> Includes Medium accuracy upgrade Capable of running PLM3
469302	<b>Cygnus High with NTRIP - GPS Receiver</b> Includes High accuracy upgrade capable of running radio or cellular based RTK correction signals 1 year NTRIP subscription included to run choice of cellular correction

# CYGNUS RECEIVER ACTIVATIONS

A WAAS correction signal is standard from the factory when a Cygnus receiver is ordered but no upgrade is chosen for the receiver. Consult the below ordering chart to upgrade the receiver to more accurate correction signals. In order to have autoguidance capability you need to order a Cygnus receiver. Accuracy upgrades can be purchased through the Vehicle Management System tool.

Description	Part Number
Cygnus Receiver, Base Accuracy	91737690
Base to Medium Accuracy Upgrade	51449279
Medium to High Accuracy Upgrade	51449282
Base to High Accuracy Upgrade	51449283
Base to High Accuracy Upgrade - 7 day demo	48075059

# CYGNUS RECIEVER CORRECTION SIGNALS

When selecting which correction source is best for your operation with the Cygnus receiver, consult the chart below.

Correction Signal	Level of Receiver Accuracy Required	Accuracy Rating	Delivery Method
SBAS (WAAS)	Base Accuracy (<10 inch P2P)	<10 inch (pass-to-pass)	Satellite
PLM 1		<6 inch (pass-to-pass)	Satellite
PLM 2	Medium Accuracy (<4 inch)	<2 inch	Satellite
PLM 3		<1.5 Inches	Satellite
RTK – Next Gen Base Station	High Accuracy (1 inch)	<1 inch	Radio or NTRIP
New Holland RTK+		<1 inch	NTRIP
Generic RTK Correction Providers (State CORS)		<1 inch	NTRIP
RTK – Existing Trimble Base Stn's		<1 inch	Radio

## Activations

Activations are a one-time purchase and are functional for the life of the hardware.

## Subscriptions

Subscriptions are time based and need to renew when expired.

# CYGNUS RECEIVER CORRECTION SUBSCRIPTIONS

Once a correction source is chosen, a length of subscription must be selected for the applicable correction source. Reference the chart below for more information.

Correction Signal	Subscription Duration	Part Number
PLM 1	1 Year	48024525
	5 Day (Demo)	48075063
PLM 2	3 Month	48084210
	1 Year	48084211
	2 Year	48084212
	3 Year	48084213
	5 Day (Demo)	48075064
PLM 3	3 Month	51668571
	1 Year	51668573
	2 Year	51668574
	3 Year	51668576

An NTRIP subscription is required to run any cell based correction signal including RTK+.

Description	Part Number
1 YR FieldOps NTRIP	51635358
3 YR FieldOps NTRIP	51635405
5 YR FieldOps NTRIP	51635421

## RTK Base Station Pro

Description	Part Number
KIT, 430 - 470 MHz RTK BASE STATION, FIXED*	47700524
KIT, 430 - 470 MHz RTK BASE STATION 35W, FIXED*	48189918
KIT, 430 - 470 MHz RTK BASE STATION, PORTABLE	47931912
KIT, 900 MHz RTK BASE STATION, FIXED*	47700525
KIT, 900 MHz RTK BASE STATION, PORTABLE	47931913
KIT, NTRIP RTK BASE STATION, FIXED*	51566621

## RTK Base Station Pro Repeater

Description	Part Number
KIT, 430 - 470 MHz RTK REPEATER	47700526
KIT, 430 - 470 MHz RTK REPEATER 35W	48189919
KIT, 900 MHz RTK REPEATER	47887765

## Cygnus Receiver Compatibility with Existing Trimble Base Stations

Description	Part Number
KIT, RADIO, X RTK 430-450MHz	47700524
KIT, RADIO, X RTK 450 - 470 MHz	51415534
KIT, RADIO, X RTK 900 MHz	51415542
Harness, WIRE, X RTK	51526151



# RAVEN GNSS CORRECTION OPTIONS

		Repeatability (95%)	Pass-To-Pass Accuracy (95%)	Convergence	Unlock	Subscription
SBAS	SBAS includes area specific differential systems, WAAS and EGNOS. GLONASS capable.	120 cm	15 cm	5 – 7 min		
GS-LITE (500S only)	Ideal for tillage, broadacre spraying, and fertilizer applications. Satellite delivery. GLONASS included.	50 cm	30 cm	<3 min	✓	
GS-LITE (700S, 600S, RS1, Viper 4+)	Ideal for tillage, broadacre spraying, and fertilizer applications. Satellite delivery. GLONASS included.	50 cm	15 cm	<5 min		✓
Satellite GS (500S only)	Utilizes premium correction data delivery to provide solutions with high accuracy and quick re-convergence in areas with loss of correction stream.  Corrections delivered via satellite direct to end user.  No base station infrastructure required, simplifying equipment needs.	8 cm	4 cm	<18 min		✓
Satellite GS (600S, RS1, Viper 4+)	Utilizes premium correction data delivery to provide solutions with high accuracy and quick re-convergence in areas with loss of correction stream.  Corrections delivered via satellite direct to end user.  No base station infrastructure required, simplifying equipment needs.	5 cm	4 cm	<30 min	✓	✓

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# RAVEN GNSS CORRECTION OPTIONS (CONTINUED)

		Repeatability (95%)	Pass-To-Pass Accuracy (95%)	Convergence	Unlock	Subscription
Satellite GS-PRO (700S and RS1)	<p>Utilizes premium correction data delivery to provide solutions with high accuracy and quick re-convergence in areas with loss of correction stream.</p> <p>Corrections delivered via satellite direct to end user</p> <p>No base station infrastructure required, simplifying equipment needs</p>	3 cm	2 cm	<18 min	✓	✓
Slingshot RTK (700S, 600S, RS1, Viper 4+)	<p>The most accurate, GNSS correction source available from Raven.</p> <p>Sub-inch accuracy and repeatability and faster convergence times</p> <p>Base station or CORS network required</p>	2.5 cm	2.5 cm	<5 min	✓	
Slingshot RTK (700S, 600S, RS1, Viper 4+)	<p>The most accurate, GNSS correction source available from Raven.</p> <p>Sub-inch accuracy and repeatability and faster convergence times</p> <p>Base station or CORS network required</p>	2.5 cm	2.5 cm	<5 min	✓	
RTK-L (700S and RS1)	<p>Receiver can maintain centimeter-level positioning accuracy for outages in RTK correction messages (i.e. loss of cellular or radio connection).</p> <p>Provides RTK level accuracy for up to 20 minutes of correction outage</p> <p>Operates seamlessly in the background</p>			<30 min	✓	✓
RTK PRO (RS1 only)	<p>Unlocks unlimited RTK assistance, maintaining centimeter-level accuracy for even longer RTK correction outages and downtimes. Uses corrections from GPS, GLONASS, Galileo and BeiDou constellations to provide highly accurate and reliable positioning</p>			<30 min		✓

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# 500S™

## Upgrades, Subscriptions and Kits

CR7 KITS	
Description	Part Number
KIT CR7 WITH 500S SBAS	117-2295-001
KIT CR7 W/500S UT/TC & MULTI	117-2295-001TC
KIT CR7 W/500S UT/TC UNLOCKS	117-2295-001TN
KIT CR7 W/500S UT/TC & SINGLE	117-2295-001TS
KIT CR7 W/500S UT UNLOCK	117-2295-001UN
KIT CR7 W/500S ISOBUS UT/TC &	117-2295-006TC
KIT CR7 W/500S ISOBUS UT/TC	117-2295-006TN
KIT CR7 W/500S ISOBUS UT/TC &	117-2295-006TS

CR7 KITS	
Description	Part Number
CODE 500 GS-LITE UPGRADE	077-0180-236
SUBSCRIPTION 500S 1YR SATELLITE GS	077-0180-237
SUBSCRIPTION 500S 3YR SATELLITE GS	077-0180-238
SUBSCRIPTION 500S 5YR SATELLITE GS	077-0180-239
SUBSCRIPTION 500S 6MO SATELLITE GS	077-0180-240
SUBSCRIPTION 500S 3MO SATELLITE GS	077-0180-243

CR7 KITS	
Description	Part Number
CBL 500S TO SERIAL PRT AUX PWR	115-0172-471
CBL CR7 TO 500S	115-0172-373
KIT RAVEN 500S SMART ANTENNA	117-2000-014
RAVEN 500S MNTG KIT 710-0141-0	063-2000-008

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# 700S™

## Upgrades, Subscriptions and Kits

UPGRADES	
Description	Part Number
700S UPGRADE TO SBAS TO SAT GS-PRO	077-0180-264
700S UPGRADE SBAS TO RTK W/ RTK-L	077-0180-306
700S UPGRADE SAT GS PRO TO RTK W/ RTK-L	077-0180-307
700S UPGRADE TO RTK W/ RTK-L	077-0180-309

SMART ANTENNA KITS	
Description	Part Number
KIT 700S SBAS	117-2000-004
KIT 700S SATELLITE GS PRO	117-2000-005
KIT 700S RTK	117-2000-006

MISCELLANEOUS & REPLACEMENT PARTS	
Description	Part Number
ASSEMBLY 700S MACHINE BRACKET	063-2000-010
CABLE 20FT RAVEN 700S	115-0172-246
CBL 700S TO 8P DEUTSCH DT ET	115-0172-445
CBL CR7 TO 700S RECEIVER	115-0172-374

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## CAMERA KITS

Camera kits are available to be ordered through New Holland Parts & Service or through the factory on select platforms. New Holland displays support multiple camera inputs for improved safety and visibility.

Camera PN: 91783634

Harness Kit (required) PN: ZAE2CAMKIT

### Extension Harness:

- 15' - ZAECEC15HD
- 25' - 47509857
- 34' - 87367053
- 50' - 47509858
- 75' - ZAECEC75HD



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