PRECISION LAND MANAGEMENT

GPS, GUIDANCE AND PRECISION AGRICULTURE SOLUTIONS FOR ALL SEASONS, CROPS, TERRAINS AND EQUIPMENT
INTRODUCTION TO GPS

NEW HOLLAND
PRECISION AGRICULTURE

TABLE OF CONTENTS

INTRODUCTION ........................................... 3
What is Precision Agriculture? ....................... 3
Why Use Precision Agriculture? ..................... 3
PLM Certified Dealers ................................. 3
What’s Next for Precision Agriculture? .............. 3

CORRECTION SERVICES .......................... 4
High Accuracy ......................................... 4
Medium Accuracy ..................................... 5
Low Accuracy .......................................... 5

NEW HOLLAND PLM EQUIPMENT ............... 6
PLM Intelliview™ IV .................................. 6
Receivers and Radios ................................ 7
PLM IntelliSteer™ ...................................... 8
PLM IntelliSteer™ All-Makes ......................... 9
DCM-300 Modem ...................................... 10
PLM Software Information Management ........... 11
PLM™ Connect Telematics ............................ 12-13
PLM IntelliRate™ ...................................... 14-15

AFTER MARKET EQUIPMENT .................... 16
Guidance Displays ................................... 16
FM-1000™ Integrated Display ....................... 17
FM-750™ Display ..................................... 18
EZ-Guide® 250 System ............................... 19

STEERING ............................................... 20
EZ-Steer® Assisted Steering System ................. 21
EZ-Pilot® Assisted Steering System ................. 22
Autopilot® Automated Steering System .......... 23

IMPLEMENT STEERING .............................. 24
Implement Steering Options ......................... 24
TrueGuide™ Implement Guidance System ......... 25
TrueTracker™ Implement Steering System ........ 25

FLOW AND APPLICATION CONTROL .......... 26
IntelliRate® Crop Input Control System ............ 26-27
Automatic Section Control ......................... 26
Variable Rate Application Control ................. 27
Seed Monitoring ........................................ 27
Planting ............................................... 28
Air Seeding ........................................... 28
Spraying ............................................... 29
Spreading ............................................. 29
Strip Till and Anhydrous .............................. 29
Additional Applications ............................. 30

ACCESSORIES ......................................... 31
Cameras ............................................... 31
Cables ............................................... 31
EZ-Remote® Joystick ................................. 32
Mobile Software ..................................... 32
WHAT IS PRECISION AGRICULTURE?

From an agronomic perspective, precision agriculture is defined as “The application of technologies and principles to manage time and location variability associated with all aspects of agricultural production for the purpose of improving crop performance, profitability and environmental quality.” While this is factually correct, it may be difficult to apply this textbook definition to your everyday farming operations. An easier way to define precision agriculture is “The process of putting the right thing, in the right amount, in the right place, at the right time.”

New Holland PLM™ precision agriculture products, software, and solutions can assist farmers throughout every step of their farming process—beginning with land preparation and throughout the planting, nutrient and pest management, and harvesting phases of a crop cycle.

WHY USE PRECISION AGRICULTURE?

Countless university studies and agronomic research have proven that efficiencies improve when precision agriculture is added to a farming operation. Still, many people continue to ask how the cost of investing in precision agriculture products compares to the profits made once these products are integrated into a farm. Although the measure of effectiveness will vary from one location to another, precision agriculture proves to be a powerful tool in multiplying the benefits of modern farming practices.

Consider the use of nitrogen on a crop. By adding a PLM IntelliRate™ crop input control system and an FM-1000™ integrated display or FM-750™ display to a tractor, a farmer can gauge where he has already applied nitrogen in his field in order to eliminate over application. By adding a prescription map and PLM™ Desktop solutions, a farmer can vary the amount of nitrogen that he applies on his field in real-time. This adds up to less time spent in the field, a more effective use of nitrogen, and greater crop yields.

PLM CERTIFIED DEALERS

New Holland PLM certified dealers have invested in their showrooms and service and support systems to offer customers the best possible experience with precision solutions for their farm. New Holland PLM Certified Dealers invest in training, people and facilities to give you access to expertise locally, while a team of PLM and product specialists in the field works alongside producers when they need them – 24/7/365. A PLM certified dealer is just one way New Holland offers you more capability to optimize your farm, from people you trust. Visit www.newholland.com/na to learn more about our certified dealers.

WHAT’S NEXT FOR PRECISION AGRICULTURE?

Revolutionary innovations such as the introduction of telematics to the New Holland PLM continue to take the precision ag industry into exciting new territory. Telematics allows an operator to track vehicle movement and service hours in the field from the farm office to maximize fuel efficiency and organize fleet management and maintenance schedules. While telematics may only seem applicable to very large corporate farms, the basis for this technology allows even the smallest farming operation to save time while using fewer employees.

But telematics is just one of many new frontiers for precision agriculture. New Holland has a commitment to create precision agriculture solutions that simplify operations and increase the profitability of farms throughout the world. Future enhancements and new innovations are planned for our product portfolio in 2013 and beyond.
Contact your local New Holland Dealer to determine if your area has RTK base station coverage. To find a New Holland dealer near you, visit www.newhollandplm.com.

**HIGH ACCURACY**

**CenterPoint™ RTK**
- **ACCURACY**: < 1" (2.5 cm)
- **INITIALIZATION/CONVERGENCE**: < 1 min

CenterPoint RTK is best suited for:
- Farms within 8 miles (12.87 km) of an established RTK base station or base station network
- Farms without line-of-sight obstructions such as hilly terrain or an abundance of trees
- Use with row crops, strip tilling, land leveling, and drainage applications in which the best horizontal and vertical accuracy is required

**CenterPoint™ RTX™**
- **ACCURACY**: 1.5" (4 cm)
- **INITIALIZATION/CONVERGENCE**: 1 min

CenterPoint RTX is best suited for:
- Farms located anywhere in the world
- Farms outside of RTK base station coverage areas
- Use with PLM 372 Receiver, FM-1000™ or FM-750™ displays
- Use with crops and applications requiring 1.5" (4 cm) accuracy

**CenterPoint VRS™**
- **ACCURACY**: < 1" (2.5 cm)
- **INITIALIZATION/CONVERGENCE**: < 1 min

CenterPoint VRS is best suited for:
- Farms in areas with robust cellular coverage
- Operations spread out over a large geographic area
- Use with row crops, strip tilling, and other applications requiring sub-inch (sub 2.5 cm) accuracy
**MEDIUM ACCURACY**

<table>
<thead>
<tr>
<th>OmniSTAR® HP</th>
<th>ACCURACY</th>
<th>INITIALIZATION/CONVERGENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-4&quot; (5-10 cm)</td>
<td>Standard*</td>
<td></td>
</tr>
</tbody>
</table>

OmniSTAR® HP is best suited for:
- High-performance broadacre seeding, spraying, and harvesting applications
- Operations in areas with open views of the sky at all times

**OmniSTAR® XP**

<table>
<thead>
<tr>
<th>OmniSTAR® XP</th>
<th>ACCURACY</th>
<th>INITIALIZATION/CONVERGENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-5&quot; (8-13 cm)</td>
<td>Standard*</td>
<td></td>
</tr>
</tbody>
</table>

OmniSTAR XP is best suited for:
- High-performance broadacre spraying and land-tillage applications
- Operations in areas with open views of the sky at all times

**OmniSTAR® G2**

<table>
<thead>
<tr>
<th>OmniSTAR® G2</th>
<th>ACCURACY</th>
<th>INITIALIZATION/CONVERGENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-5&quot; (8-13 cm)</td>
<td>Standard*</td>
<td></td>
</tr>
</tbody>
</table>

OmniSTAR G2 is best suited for:
- Use when more reliable coverage time is necessary, due to the use of GLONASS satellites in addition to the standard GPS satellites
- Operations in areas with open views of the sky at all times

**LOW ACCURACY**

<table>
<thead>
<tr>
<th>WAAS</th>
<th>ACCURACY</th>
<th>INITIALIZATION/CONVERGENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1 meter</td>
<td>&lt; 1 min</td>
<td></td>
</tr>
</tbody>
</table>

WAAS is best suited for:
- Operators that desire a quick start-up time, and don’t need the highest level of accuracy or repeatability
- Broadacre crop spraying, tillage applications, and other applications in which accuracy and repeatability aren’t of the highest concern

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*Receiver convergence time varies based on GNSS constellation health, level of multipath, and proximity to obstructions such as large trees and buildings. In ideal conditions, receivers can converge to a 30 cm position in approximately 10 minutes, 20 cm in 15 minutes, 10 cm in 30 minutes and full accuracy in less than 45 minutes.
IntelliView™ IV – One display for all your needs

With its 10.4 inch diagonal touchscreen, the PLM IntelliView IV display can manage all your tasks and data from a single point in the cab. Farming is complicated enough without needing to switch from monitor to monitor or trying to make things work together when they were never designed to do so. From your seat with just a few touches, you can view up to 6 run screens on a single monitor to fine-tune options such as remote valve timers and flow control, auto PTO, engine speed settings, the wheel slip alarm, calibrations and implement settings, as well as other key machine functions.
Receivers and radios

**RECEIVERS**

New Holland offers portable, rugged GNSS receivers that support a variety of real-time corrections for repeatable year-to-year accuracy. Use any of our receivers as a standalone GNSS receiver or integrate it into an automated steering system.

<table>
<thead>
<tr>
<th>PLM 362 RECEIVER</th>
<th>AgGPS 162 GPS RECEIVER</th>
</tr>
</thead>
<tbody>
<tr>
<td>An all-in-one dual-frequency GPS receiver/antenna system, ideal for farming solutions that require a high-accuracy external receiver.</td>
<td>A low-cost smart antenna, ideal for farming operations that require less demanding accuracy levels.</td>
</tr>
<tr>
<td>Upgradeable, GLONASS enabled, and capable of utilizing multiple correction services.</td>
<td></td>
</tr>
</tbody>
</table>

**AG715 RADIO (FOR THE PLM 362 RECEIVER)**

An integrated 450 or 900 MHz RTK radio that is highly versatile and reliable in the most demanding radio frequency environments.
PLM INTELLISTEER™

PLM IntelliSteer provides year-to-year repeatable accuracy, as tight as plus or minus 1 inch (2.5 cm). By minimizing skips and overlaps, you will save on seed, fertilizer and chemicals and even improve agronomic performance by precisely placing seeds. In controlled-traffic scenarios, you can minimize overall field compaction and further improve agronomic performance.

Six guidance patterns are offered for the ultimate in guidance flexibility, allowing you to work in different patterns and shapes that best fit your operation's field layouts and contours.

Patterns include:

- Straight
- Heading
- Spiral
- Field
- Curved
- Circle
PLM INTELLISTEER™ ALL-MAKES

IntelliSteer All-Makes allows you to run the IntelliSteer system in conjunction with an Autopilot™ platform kit and run a single display for AutoGuidance and precision farming functions. Listed below are the current platforms available for IntelliSteer All-Makes.

INTELLISTEER™ ALL-MAKES APPLICATION CHART

<table>
<thead>
<tr>
<th>BRAND</th>
<th>MODEL</th>
<th>SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tractors</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIH</td>
<td>MXM</td>
<td>120, 130, 140, 155, 175, 190</td>
</tr>
<tr>
<td>CIH</td>
<td>Magnum</td>
<td>7210MFD, 7220MFD, 7230MFD, 7240MFD, 7250MFD</td>
</tr>
<tr>
<td>CIH</td>
<td>MX/Magnum</td>
<td>180, 200, 220, 240, 270, 210, 230, 255, 285</td>
</tr>
<tr>
<td>CIH</td>
<td>Steiger</td>
<td>9210, 9230, 9250, 9330, 9350</td>
</tr>
<tr>
<td>CIH</td>
<td>Steiger</td>
<td>9270, 9280, 9370, 9380, 9390</td>
</tr>
<tr>
<td>CIH</td>
<td>STX/QuadTrac</td>
<td>275, 325</td>
</tr>
<tr>
<td>CIH</td>
<td>STX/QuadTrac</td>
<td>375, 425, 440, 450, 500</td>
</tr>
<tr>
<td>NH</td>
<td>TM</td>
<td>120, 130, 140, 155, 175, 195</td>
</tr>
<tr>
<td>NH</td>
<td>TG</td>
<td>210, 230, 255, 285</td>
</tr>
<tr>
<td>NH</td>
<td>TJ</td>
<td>275, 325</td>
</tr>
<tr>
<td>NH</td>
<td>TJ</td>
<td>375, 425, 440, 450, 500</td>
</tr>
<tr>
<td><strong>Sprayers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIH</td>
<td>SPX</td>
<td>4260, 4410, 4420</td>
</tr>
<tr>
<td><strong>Other OEMs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fendt</td>
<td>Vario</td>
<td>916, 920, 924, 926</td>
</tr>
<tr>
<td>Fendt</td>
<td>Vario Autoguide</td>
<td>712, 714, 716, 718, 818, 820, 922, 924, 927, 930, 933, 936</td>
</tr>
<tr>
<td>JD</td>
<td>6000ATR</td>
<td>6230, 6330, 6420, 6430, 6520, 6530, 6620, 6630, 6820, 6830, 6920, 6930</td>
</tr>
<tr>
<td>JD</td>
<td>7000ATR</td>
<td>7130, 7230, 7430, 7530, 7720, 7820, 7920</td>
</tr>
<tr>
<td>JD</td>
<td>8000 (non-ILS)</td>
<td>8100, 8110, 8120, 8200, 8210, 8220, 8300, 8310, 8320, 8400, 8410, 8420, 8520</td>
</tr>
<tr>
<td>JD</td>
<td>8000ATR (ILS or non ILS)</td>
<td>8120, 8130, 8220, 8230, 8320, 8330, 8420, 8430, 8520, 8530, 8225R, 8245R, 8270R, 8295R, 8320R, 8345R</td>
</tr>
<tr>
<td>JD</td>
<td>8000ILS</td>
<td>8320, 8420, 8520</td>
</tr>
<tr>
<td>JD</td>
<td>Tracked</td>
<td>8100T, 8110T, 8120T, 8200T, 8210T, 8220T, 8300T, 8310T, 8320T, 8400T, 8410T, 8420T, 8520T, 9300T, 9320T, 9400T, 9420T, 9520T, 9620T</td>
</tr>
<tr>
<td>JD</td>
<td>9000ATR</td>
<td>9120, 9220, 9320, 9420, 9520, 9620, 9230, 9330, 9430, 9530, 9630</td>
</tr>
<tr>
<td>Massey Ferguson</td>
<td>7000 Auto-Guide</td>
<td>7465, 7475, 7480, 7485, 7490, 7495</td>
</tr>
<tr>
<td>Massey Ferguson</td>
<td>8000 Auto-Guide</td>
<td>8450, 8460, 8470, 8480, 8650, 8660, 8670, 8680</td>
</tr>
</tbody>
</table>
DCM-300 MODEM

The rugged and robust DCM-300 modem provides wireless 3G connectivity for PLM Connect™ solutions. It enables reliable access to New Holland CenterPoint™ VRS™ corrections, CenterPoint™ RTX™ corrections, as well as other 3rd party network RTK solutions. It also offers a flexible solution for asset tracking that can be used with any equipment brand.

- GSM Global Network Coverage
- Verizon Network Coverage
- CenterPoint VRS
- PLM Connect

DCM-300 modem options

PLM offers two modem options based on your cellular service needs. The DCM-300G modem utilizes a global GSM cellular network (such as AT&T) and offers a flexible SIM card option for other global services. The DCM-300C modem utilizes a CDMA cellular service (Verizon) and is used primarily in the USA.

DCM-300 modem as a VRS solution is color blind and can work with third-party corrections:
- State run or public RTK networks
- Other non-PLM solutions
- CORS (Continuously Operating Reference Station)

*when CMR or CMR+ formats are output

DCM-300 modem is compatible with the following PLM displays and receivers:
- PLM 372 receiver
- FM-1000™ integrated display
- FM-750™
- AgGPS® 262 receiver

Notes:
1. With DCM 300G Model
2. With DCM 300C Model
PLM SOFTWARE INFORMATION MANAGEMENT

New Holland offers a complete range of solutions for the field and farm office. Solutions include accounting, mapping, and water management. Select from a variety of modules that can be integrated and customized to provide a comprehensive information management solution for your farm.

<table>
<thead>
<tr>
<th>OFFICE SOLUTIONS</th>
<th></th>
</tr>
</thead>
</table>
| **PLM VIEWER**   | • Free map viewing software for guidance displays  
|                  | • Build a list of client, farm, field names and write the data to precision farming devices for data management  
|                  | • Can be upgraded for additional field record keeping, accounting, mapping, and water management functionality  |
| **PLM BOOKS**    | • Access the profitability of fields, livestock groups, and equipment  
|                  | • Print tax reports for both cash and accrual general ledgers  
|                  | • Keep up-to-date inventory for supplies (seed, chemicals, fertilizer, feed, etc), harvested crops, and livestock  |
| **PLM MAPPING**  | • Read and write data for use with a wide range of precision farming devices  
|                  | • Layer variety maps with yield maps to establish yield performance  
|                  | • Create variable rate prescription maps using formulas or based on soil types, yields, or other maps  
|                  | • Create, edit, and manage guidance paths from popular guidance systems including all New Holland guidance displays  
|                  | • Average multiple years of yield maps to discover consistently high and low yielding areas of a field  
|                  | • Print reports for seed varieties, restricted use chemicals, fertilizer usage, equipment maintenance, and more  |
| **PLM WATER CONTROL** | • View field topographical data in 3D from any angle and exaggerate the vertical to visualize the shape and slopes of the field  
|                   | • Utilize the drawing tools to tie laterals to mains, create parallel lateral spacings, and clip drainage lines  
|                   | • Layout and design drainage tile by size, pipe type and phase, then enter the minimum depth, maximum depth, and optimum grade for each  |
PLM™ CONNECT TELEMATICS

PLM Connect allows you to connect your software and hardware across the entire farm to improve efficiency and decision-making. This technology simplifies data management by eliminating a USB flash drive for data transfer so that information can flow seamlessly between your office, vehicles and handheld computers. Managers can also see a live map of vehicle locations to help manage fleets and receive alerts if employees enter restricted farm zones.

FLEET MANAGEMENT
MAKE THE MOST OF YOUR MANAGEMENT SKILLS

Track all of your machines and, by extension, your team from a single web page, allowing you to:

• Accurately pinpoint the exact location of a given machine
• Communicate directly to the cab display of any machine
• Coordinate machine logistics so you can efficiently manage maintenance, refueling, delivery of inputs and other needs to keep your people productive and machines running smoothly
• Generate real-time reports on productivity
COMPATIBLE WITH EXISTING EQUIPMENT
EXTEND YOUR INVESTMENT

PLM Connect Manager™ is compatible with your existing precision farming systems, so your local New Holland dealer can retrofit it on fleets of both New Holland and competitive equipment. Use it with:

- Any vehicle with a power source
- A New Holland modem that you may already own for cellular-based differential correction
- Any equipment using the standard ISO J1939 CAN protocol

SECURITY & ASSET TRACKING
PROTECT YOUR SIZEABLE INVESTMENT

Streamline maintenance and increase your peace of mind by using the PLM Connect Manager alerts:

- On-time service monitoring helps you protect the value of your investment
- Geo-fencing ensures a machine stays within certain coordinates preset by you
- Curfew management sends an alert if a machine is started outside of established working hours

REAL-TIME REPORTING
MONITOR AND INCREASE PRODUCTIVITY IN REAL TIME

With PLM Connect Manager, you can create reports on productivity, revenue generation and costs. Having this data quickly improves your decision-making capabilities.

PLM Connect Manager utilizes the industry standard ISO J1939 protocol, so it can access system information from any compatible machine, including:

- Engine hours
- Vehicle Location

IS THIS CORRECT COPY TO ADD BACK IN?
PLM IntelliRate™

SAVE INPUTS & IMPROVE CROP PERFORMANCE WITH PLM

New Holland PLM section and rate control lets you put seed, fertilizer and other inputs where you want them and ONLY where you want them. Reduced overlaps and more precise placement allow you to save on inputs, improve agronomic performance and lower overall costs.

PLM INTELLIVIEW™ IV COMPATIBLE
MORE CAPABILITY, LESS COMPLEXITY

PLM IntelliRate minimizes the need for multiple displays in the cab, using the same user-friendly interface that has become a trademark of New Holland PLM displays. Using PLM IntelliRate technology in conjunction with an PLM IntelliView IV display on a competitive planter, you can:

- Control planter seed rates through the use of Rawson drives
- Control up to 48 sections when using automatic row shutoffs
- Monitor seed population, skips, doubles and singulation
VARIABLE-RATE & SECTION CONTROL
SIMPLIFY CONTROL ON PLANTERS, SPRAYERS AND SPREADERS

Variable-rate and section control can yield significant input cost savings and enhanced yield characteristics. New Holland PLM IntelliRate manages the planter applications and creates as-applied maps:

- Planters: Controls up to four sections and up to 48 rows for individual row shut off; manual configuration of section and row orientations and variable rate seeding at up to four different section rates for better management of inputs

RAWSON DRIVE COMPATIBLE
UTILIZE INPUTS EFFICIENTLY

Using PLM IntelliRate, producers can take advantage of Rawson drives:

- Allow a maximum of four different rates for variable rate to reduce inputs and increase yields
- Control up to two liquid products and vary the rate on each, for accurate liquid fertilizer application
Guidance displays

Guidance displays from New Holland help you accurately monitor and map field information in real time. Benefit from their industry-leading performance and reliability to complete field applications faster and more productively. With an array of functionalities and price points, you can select a display option that best fits your farming needs.

<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>EZ-GUIDE 250 SYSTEM</th>
<th>FM-750 DISPLAY</th>
<th>FM-1000 DISPLAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of color screen</td>
<td>4.3&quot;</td>
<td>8.0&quot;</td>
<td>12.1&quot;</td>
</tr>
<tr>
<td>Touchscreen</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Video camera inputs</td>
<td></td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Built-in GPS receiver</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>SBAS 6-8&quot; (15-20 cm) accuracy</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>OmniSTAR® HP/ XP 2-4&quot; (5-10 cm)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>OmniSTAR G2 3-4&quot; (8-10 cm)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>OmniSTAR VBS &lt;1 meter accuracy</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CenterPoint™ VRS* &lt;1&quot; (2.5 cm)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CenterPoint RTK &lt;1&quot; (2.5 cm)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CenterPoint RTX™ 1.5&quot; (4 cm)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>GLONASS compatibility</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Assisted steering compatibility</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Automated steering compatibility</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Implement control capability</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Flow &amp; Application control</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Water Management compatibility</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Yield Monitoring</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Office software compatibility</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
FM-1000™ DISPLAY

The FM-1000™ display is an advanced, full-featured guidance display for all your precision farming operations. From basic mapping to advanced operations such as application control, field leveling or drainage, and harvesting, the FM-1000 display has you covered. Its versatility allows you to adapt as your farming business grows.

FULL FIELD-IQ™ CROP INPUT CONTROL SYSTEM CAPABILITIES
Perform spinner speed control, 6-product variable rate application control, automatic section control and advanced seed monitoring in real time.

IMPLEMENT STEERING
Control your implement with the TrueGuide™ and TrueTracker™ systems.

WATER CONTROL
Collect 3D field data and perform land leveling and drainage operations.

YIELD MONITORING
Monitor and map your crop yield and moisture performance during harvest.

VEHICLE SYNC
Wirelessly share guidance lines and coverage maps with other vehicles in the field.

DATA ANALYSIS
View, print and analyze your maps with PLM Software solutions.

STEERING COMPATIBILITY
Add the EZ-Steer® assisted steering system, EZ-Pilot™ assisted steering system, or Autopilot® automated steering system to complete your total guidance package.

FEATURES

- Large 12.1" color touchscreen display
- Intuitive user-interface
- Rugged construction
- On-screen LED lights
- Two high-performance, integrated GPS/GNSS receivers
- 4 video camera inputs

AVAILABLE CORRECTIONS

- SBAS (WAAS) 6-8 inch accuracy
- OmniSTAR® G2 3-4 inch accuracy
- 1 inch accuracy
- Centerpoint™ RTK 1-3 inch accuracy
- Centerpoint® VRS 6-8 inch accuracy
- OmniSTAR® HP 2-4 inch accuracy
- 3241 6482

precision agriculture 2013 product catalog
**FM-750” DISPLAY**

The New Holland FM-750™ display is an affordable, multi-function guidance display offering key precision agriculture functionality. Use it to monitor and map field information in real time—for your broadacre and row crop applications. Compatible with a variety of accuracy levels and satellite constellations, the FM-750 display is ideal for almost any crop type, field shape, or soil type.

### FEATURES

- ✓ Mid-sized 8.0” color touchscreen display
- ✓ Intuitive user-interface
- ✓ Rugged construction
- ✓ 27 built-in LED lights
- ✓ High-performance, integrated GPS/GLONASS receiver
- ✓ 2 video camera inputs

### AVAILABLE CORRECTIONS

- **6-8 inch accuracy**
  - SBAS (WAAS)
  - OmniSTAR® XP
- **3-5 inch accuracy**
  - 3241
  - Centerpoint™ RTX
  - OmniSTAR® HP
- **1 inch accuracy**
  - 201
  - Centerpoint™ VRS

### FIELD-IQ® CROP INPUT CONTROL SYSTEM CAPABILITIES

- • Seed monitoring and 2-product variable rate application control
- • Perform automatic section control in real time

### DATA ANALYSIS

View, print and analyze your maps with PLM Software solutions

### YIELD MONITORING

Monitor and map your crop yield and moisture performance during harvest

### STEERING COMPATIBILITY

Add the EZ-Steer assisted steering system, EZ-Pilot™ assisted steering system, or Autopilot™ automated steering system to complete your total guidance package.
**EZ-GUIDE® 250 SYSTEM**

The EZ-Guide® 250 display provides high-quality, entry-level guidance capabilities at an entry-level price. It is well-suited for broadacre crop applications that can be accomplished with 6-8” Pass to Pass (P2P) accuracy. Perform manual guidance or add a steering system to make your farming operations easier—day or night.

**FEATURES**

- Compact 4.3” color display
- One-touch function buttons
- Intuitive user-interface
- Rugged construction
- 15 built-in LED lights
- High-performance, integrated GPS receiver

**AVAILABLE CORRECTIONS**

**USB DATA TRANSFER**
Transfer your data from the field to the office using a USB drive

**DATA ANALYSIS**
View, print and analyze your maps with PLM Software solutions

**ASSISTED STEERING COMPATIBILITY**
Add the EZ-Steer® assisted steering system to complete your total guidance package

**LB25 EXTERNAL LIGHTBAR**
Mount the LB25 external lightbar anywhere in your vehicle to measure off-line distance, regardless of where your display is located
Steering

In addition to the manual guidance available with any EZ-Guide 250™, FM-750™, or FM-1000™ guidance displays, assisted and automated steering options are also available for use on your farming vehicles. Use our steering options to keep your vehicle on line, so you can relax and focus on other farming tasks.

- Complete field applications more quickly, accurately and safely
- Reduce operator fatigue and input costs
- Minimize skips, overlaps and guess rows
- Operate during day or night and in dusty or low-visibility conditions

Additionally, steering systems use advanced terrain compensation technology to immediately calculate the actual position of the vehicle for improving accuracy in difficult conditions such as rolling terrain, slopes and rough ground.

<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>AUTOPILOT SYSTEM</th>
<th>EZ-PILOT SYSTEM</th>
<th>EZ-STEER SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ-Guide 250 compatibility</td>
<td>√</td>
<td></td>
<td>√</td>
</tr>
<tr>
<td>FM-750™ compatibility</td>
<td></td>
<td>√</td>
<td>√</td>
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<tr>
<td>FM-1000 compatibility</td>
<td></td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Guidance-ready vehicle compatibility</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Terrain Compensation</td>
<td>T3°</td>
<td>T3°</td>
<td>T2°</td>
</tr>
<tr>
<td>Roll</td>
<td>√</td>
<td></td>
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<tr>
<td>Pitch</td>
<td>√</td>
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<td>√</td>
</tr>
<tr>
<td>Yaw</td>
<td>√</td>
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<td>√</td>
</tr>
</tbody>
</table>
The EZ-Steer assisted steering system provides simple, portable, hands-free farming for more than 1200 vehicle models—old and new. The EZ-Steer system turns the steering wheel by combining a friction wheel and electric motor with guidance from an EZ-Guide® 250, FM-750™ or FM-1000™ display, giving you efficient, low-stress steering capabilities. It is ideal for broadacre farming applications where extremely accurate positions are not required.

EZ-Steer system features

- Quick disengagement when you manually turn the steering wheel for quick manual steering when desired
- The EZ-Steer system motor easily locks away from the steering wheel when not in use
- Easy installation and transferability from vehicle to vehicle

The EZ-Steer system uses T2™ sensors to calculate the actual position of the vehicle to help minimize skips and overlaps in areas with rolling terrain and rough ground.
EZ-PILOT™ ASSISTED STEERING SYSTEM

The EZ-Pilot assisted steering system provides high-accuracy steering at an affordable price. The EZ-Pilot system turns the wheel for you with a compact electric motor drive using guidance from FM-750™ or FM-1000™ displays to help keep you on line and improve your efficiency. The EZ-Pilot system is versatile. It is ideal for both low-accuracy broadacre farming applications as well as high-accuracy row crop farming applications.

EZ-Pilot system features

- Integrates directly into the steering column for clear access to cab control
- Allows for unrestricted manual steering when assisted steering is not engaged
- Compatible with many different vehicle types

DISPLAY OPTIONS

FM-750 Display

FM-1000 Integrated Display

T3 TERRAIN COMPENSATION

The EZ-Pilot system uses T3™ sensors to calculate the actual position of the vehicle to help minimize skips and overlaps in areas with rolling terrain and rough ground.
**AUTOPILOT™ AUTOMATED STEERING SYSTEM**

The Autopilot™ automated steering system provides integrated, high-accuracy steering in any field type—hands free. The Autopilot system automatically steers your vehicle—with speeds up to 30 mph (40 kph)—for maximum precision and increased productivity. It is ideal for the most demanding row crop farming applications.

**Autopilot system features**

- Automatically steers your vehicle
- Integrates directly into your vehicle’s hydraulics for reduced clutter in cab
- Plugs in to many guidance-ready vehicles minimizing the need for additional equipment

**T3 TERRAIN COMPENSATION**

The Autopilot system uses T3™ sensors to calculate the actual position of the vehicle to help minimize skips and overlaps in areas with rolling terrain and rough ground.

**DISPLAY OPTIONS**

- FM-750™ Display
- FM-1000™ Display
To increase your planting accuracy, add an implement steering option. Implement steering helps you guide your implement on line, so you can operate with ease—no matter the guidance path or terrain in your field. With implement steering options, you can:

- Guide your implement on hillsides, rolling terrain, contours, or terraces and in variable soil conditions
- Minimize the effects of implement draft
- Increase your precision with seed and fertilizer placement
- Result in more consistent guess rows

<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>TRUEGUIDE® SYSTEM</th>
<th>TRUETRACKER® SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of control</td>
<td>Passive – tractor guides implement</td>
<td>Active – implement steers itself</td>
</tr>
<tr>
<td>FM-1000™ display compatibility</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Additional steering equipment on implement</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Direction of Control</td>
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<td></td>
</tr>
<tr>
<td>Forward</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Backward</td>
<td>✓</td>
<td></td>
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<tr>
<td>Terrain Compensation</td>
<td></td>
<td>T3 – on tractor &amp; implement</td>
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<tr>
<td>Roll</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Pitch</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Yaw</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

INTRODUCTION | CORRECTION SERVICES | NEW HOLLAND PLM EQUIPMENT | AFTER MARKET EQUIPMENT | ACCESSORIES
TRUEGUIDE™ SYSTEM

The TrueGuide system is a passive implement guidance system that monitors and corrects the position of your implement by moving the tractor. When the implement gets off line, the Autopilot™ automated steering system signals your tractor to compensate to the right or left of the guidance line to pull the implement on the correct path. The position is communicated between a second built-in receiver in the FM-1000™ display in your tractor and an additional GNSS antenna on the implement.

Trueguide system

- Reduces uncontrolled drift of the implement by more than 50% over guiding the tractor alone
- Best-suited for broadacre crop applications
- Low-cost solution with no need to add additional hardware to the implement
- Ideal for controlling implements where multi-pass repeatability is not required

TRUETRACKER™ SYSTEM

The TrueTracker system is an active implement guidance system that keeps your tractor and implement on the same guidance line. When the implement drifts, the Autopilot automated steering system signals your implement to independently adjust its position to follow the correct path. The position is communicated between a second built-in receiver in the FM-1000 display in your tractor and a NavController II and GNSS antenna mounted on the implement—allowing the implement to correct itself without any compensation from the tractor.

- Enables both the implement and tractor to stay on a repeatable path
- Reduces crop damage and compaction
- Improves seedbed and nutrient placement and helps increase yields
- Provides high accuracy on rolling terrain with terrain compensation technology
- Best-suited for row crop and multiple-pass farming applications

STEERING COULTERS  TONGUE STEER  LOAD BEARING WHEEL  SIDESHIFT  ARTICULATING THREE POINT
INTELLIRATE™ CROP INPUT CONTROL SYSTEM

The IntelliRate™ crop input control system is a section control and variable rate application control system that prevents seed and fertilizer overlap, controls the rate of material applications and monitors seed delivery or fertilizer blockage. The IntelliRate system runs on both the FM-750™ display and FM-1000™ display.

Using IntelliRate automatic section control eliminates double applications and wasted inputs by automatically shutting off rows or sections. The IntelliRate system can manage seed, liquid and anhydrous, and features inch-level control for up to 48 sections, providing savings that can exceed 5%. It’s the ideal upgrade for your New Holland guidance display, and it can be further upgraded to variable rate for even greater savings.

AUTOMATIC SECTION CONTROL

- Automatically control up to 48 rows individually for maximum savings in seed and increased yields
- Overlap detection shows where you’ve been and what you’ve done
- Eliminate seed overlap in your headlands and point rows with Tru Count Meter Mount™ air clutches
- Eliminate fertilizer overlap with the Tru Count LiquiBlock™ valves that easily connect to clutch air lines
- Use Vehicle Sync to automate real-time map sharing of overlap areas by combining an FM-1000 display, DCM-300 modem and the Field-IQ system
INTELLIRATE™ CROP INPUT CONTROL SYSTEM

Increase yields and save money when planting, spraying, spreading, or fertilizing. Adjust your rate manually or with a New Holland display to automatically vary the rate using prescriptions.

VARIABLE RATE APPLICATION CONTROL

- Simultaneously control the application rate of up to six different materials when using the FM-1000™ display, including seed, granular seed, granular fertilizer, liquid, and anhydrous ammonia in different combinations
- Two material rate control capability when using the FM-750™ display
- Variable rate control of materials can be achieved with a prescription VRA map
- As-applied mapping records where you’ve applied inputs and automates record keeping
- Adjust your seed population, fertilizer rates, or spray application manually or using a prescription created with PLM Software
- Apply a high population to fertile or well irrigated soils to maximize yield potential while reducing the rate on less fertile or poorly irrigated soils

Optimize the operation of a planter and create a high yielding environment with accurate seed placement. Prevent costly seeding errors by tracking seed meter performance.

SEED MONITORING

- Advanced seed monitoring increases the quality of seed placement by delivering singulation details from the seeding system to the operator, allowing for on-the-go planter tuning
- FM-750 display supports simple seed monitoring and singulation analysis
- Prevent costly planter problems by catching them early before they cause yield reduction
- See results of singulation analysis including information on population, singulation, skips/multiples, spacing, and quality of spacing
PLANTING

ROW CROP PLANTING

The planter function manages seed, liquid, or granular application:
• Prevent seed overlap by automatically controlling up to 48 individual rows
• Eliminate liquid fertilizer overlap in your headlands and point rows with Tru Count LiquiBlock™ valves
• Vary seed population in your fields to match soil potential with Rawson™ variable rate drives or existing PWM style drives
• Use a prescription map from PLM Software to automatically set the rate of seed
• Analyze your seeding performance with status items such as population, singulation, skips/multiples, and spacing
• Track your seed varieties for post-harvest performance analysis

Vehicle Sync – vehicle to vehicle communication for the FM-1000™ display
Reduce overlap and speed up planting jobs by transferring guidance lines and coverage information wirelessly from one vehicle to another while operating in the same field.

AIR SEEDING

AIR SEEDING

• Simultaneously control up to six materials with manual rate or prescriptions using the FM-1000 display
• Minimize overlap detection with control drive or add sections for liquid/NH3
• Control existing PWM, Linear Actuators, Electric over Hydraulic Motors, or Servo systems
• Monitor up to 96 rows of blockage sensors
• Read auxiliary sensors such as fan speed, low bin level, air pressure, and implement switch
INTELLIRATE™ CROP INPUT CONTROL SYSTEM

SPRAYING

The sprayer function manages accurate liquid application:
• Control up to 48 sections or nozzles and shut off sections in waterways and point rows to avoid overspraying
• Connect directly into the vehicle boom shutoff valves so no additional cables are required
• Connect using platform-specific kits designed to work with existing sprayer components including factory-installed switches

SPREADING

The spreader function manages accurate granular application:
• Vary rates of fertilizer or lime with prescriptions to save money, increase yields, and keep records of what was applied
• Avoid overlap by shutting off spreading when going over previously-applied areas
• Connect directly into the spreader manufacturers’ existing components with a Field-IQ™ system
• Use a Rawson™ PAR 40 variable rate drive for very fast response going from stand-still to material application
• Applicators can automatically control spinner speed for spreader application systems with an FM-1000™ display and Field-IQ system

STRIP TILL AND ANHYDROUS

The fertilizer control function manages accurate applications:
• Avoid overlap in headlands and point rows using section control for up to 48 sections in strip till, NH3, and sidedress toolbars
• Control six material application more conveniently with the FM-1000 display (or two materials with the FM-750™ display) by connecting to existing valves and flow meters already on the tool bar
• Monitor delivery line blockage for granular strip till
• Vary rates manually, using prescriptions to increase yields while keeping records of what was applied
Additional Applications

**RG-100 ROW GUIDANCE**
With the RG-100 row guidance system, you can automatically steer the combine in response to changes in the rows by using sensors built in to the combine head. The RG-100 system uses the Autopilot™ system to center the combine on the rows—even when they are not straight.

- Reduce operator fatigue and header loss
- Harvest in difficult conditions such as down corn, long passes and poor visibility
- Operate effectively in fields planted using other steering systems or in areas where the planter drifted

**ALL-MAKES YIELD MONITORING**
New Holland All-Makes yield monitoring helps you accurately view, map and record crop yield and moisture data in real-time to instantly understand how well your crop performed. Features include:

- **Variety Tracking**: Map and compare the yield and moisture performance of different seed varieties throughout your field
- **Load Tracking**: Record the amount of grain harvested and loaded onto your trucks and use actual load ticket data to reconcile yield maps with recorded weights within PLM Software
- **Auto-cut Width**: Adjust the cut width automatically when traveling over odd-shaped fields, point rows, or other previously harvested areas to avoid inaccurate area and yield calculations
- **Flexible Installation Options**: Choose between a complete kit that includes all yield monitoring equipment, a partial kit that uses existing OEM-installed moisture sensors, or an OEM interface kit that interfaces directly with other OEM yield monitoring systems
Customizable observation systems

Let’s face it, when it comes to work, we all have a different way of getting the job done. Some of us focus on the details. Others prefer to see the big picture. We get that. And that’s why we created Voyager to be customizable. You build the system that will give you the functionality you need. And building your system is as easy as 1-2-3.

CAMERAS

Super CMOS cylinder color observation camera

This waterproof (IPX7 rating) 12-volt camera offers a 131° viewing angle, reversed image orientation, an electronic iris and IR LED low-light enhancement (0 Lux with IR LED on).

- Rugged machined aluminum body
- 1.25"w × 1.25"h × 1.5"d

Voyager CCD color cylindrical camera

This 12-volt camera is waterproof (IPX7 rating) and offers a 130° viewing angle, reversed image orientation and an electronic iris.

- Rugged machined aluminum body
- Excellent low-light and high-bright environment performance
- 1.2"w × 1.2"h × 2.2"d

Voyager CCD color camera

This 12-volt camera is waterproof (IPX7 rating) and offers a 150° viewing angle, electronic iris and IR LED low-light enhancement (0 Lux with IR LED on).

- Built-in microphone
- Normal/mirror image switch
- 2.7"w × 1.7"h × 5"d

CABLES

Intelliview™ III/Intelliview™ IV* monitor adapter cable

- Camera adapter cable for the Intelliview III and Intelliview IV monitors
- Works with any Voyager camera
- Allows for up to 3 camera inputs

FM-750™/FM-1000™ monitor adapter cable

- Camera adapter cable for FM-750 or FM-1000 monitor
- Works with any Voyager camera

* Intelliview III and Intelliview IV displays are 3-camera capable.
SCREEN NAVIGATION

EZ-Remote Joystick®

The EZ-Remote Joystick® allows quick and accurate access to the display functions. A typical application has the EZ-Remote Joystick mounted on the vehicle console, providing the operator with an even more convenient way to control a variety of functions from the cab. The EZ-Remote Joystick enhances a wide range of tasks, from basic guidance operations to more advanced operations like nudge and screen navigation.

FIELD SOLUTIONS

MOBILE SOFTWARE

- Enter field records
- Map field boundaries, drainage lines, pivots, ditches and other points of interest
- Capture digital images of pests using mobile devices with built-in cameras and GPS, such as a Juno® handheld computer
- Utilize grids or management zones for soil sampling
- Use variable rate application maps with a wide range of third party controllers

MOBILE SOFTWARE FROM FARM WORKS IS COMPATIBLE WITH THE FOLLOWING HANDHELDs:

Juno handheld
The Juno handheld kit is an economical solution that eliminates the need to carry a camera, a GPS receiver and a PDA.

Yuma rugged tablet computer
The Yuma® computer provides a rugged solution that includes an integrated GPS receiver, two digital cameras, 9-pin serial port, a large 7-inch touchscreen and Windows® 7 operating system.

Nomad handheld computer
The Nomad® handheld computer kit provides a rugged solution that eliminates the need to carry a camera, a GPS receiver, a cellular modem and a PDA.

Mobile computer accessories
A complete range of accessories for every mobile computer is available through PLM® Software. Docking stations for the Yuma enable you to convert your field computer to a full functional office workstation.
For the latest product information, stop by your local New Holland Agriculture dealer or visit: partstore.agriculture.newholland.com