

FARM WITH PRECISION
WITH NEW HOLLAND



WELCOME TO THE WORLD OF PLM

FARM WITH PRECISION WITH NEW HOLLAND

New Holland offers a full range of complete guidance solutions that can be tailored to suit your individual needs. With a full range of correction signals, New Holland's modular solution can be used on any machine. Intuitive, user-friendly interfaces mean you can use guidance with confidence and Precision Land Management software enables you to download and analyse yield data to fine tune inputs and reduce costs. Advanced telematics systems enable you to synchronise in-field working between machines from the comfort of your office. If you are ready to start saving time and money, working more comfortably and getting more out of every season with precision farming, New Holland Precision Land Management is waiting for you.



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PLM® GUIDANCE SOLUTIONS

New Holland offers a range of intuitive autoguidance solutions to meet your needs, from entry-level manual guidance, via assisted guidance right through to top of the range fully integrated autoguidance which effectively manages the machine for you. These solutions can be matched to a range of correction signals, from sub 20cm right down to sub 2.5cm absolute accuracy depending on your needs. You might be thinking what about my implement? Well, New Holland offers solutions for its entire range of tractor, harvesting, and crop management equipment, including all implements, meaning you can choose the right tool for your operation.

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PLM® CROP MANAGEMENT SOLUTIONS

In order to get the most out of every square inch of field, a full range of crop management solutions are available. Variable rate and section control enable you to maximise yields and reduce costly over and underlaps. Yield monitoring, available on combine and forage harvesters means you can see just how productive your fields are, and when combined with PLM software, you can counteract areas of lower yields. Advanced moisture monitoring technology enables the precise amount of additive application when foraging, baling or combining, and it also enables you to precisely calculate drying costs.



Sustainable Efficient Technology

PLM FROM THE CLEAN ENERGY LEADER

New Holland is committed to improving the environmental profile of farming and PLM forms a key element of this strategy. By reducing in-field passes considerable fuel savings can be achieved, which consequently reduce your farm's carbon footprint. But that is not all, by controlling inputs, such as fertilisers, the environmental impact of farming is cut considerably. After all, that's what you've come to expect from the Clean Energy Leader.



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PLM® DATA MANAGEMENT SOLUTIONS

You are never alone with New Holland's PLM® solutions. A comprehensive software package enables you to manage all aspects of your farm to enhance productivity and reduce soaring input costs. Telematics technology enables fleet managers to connect to their machines from the comfort of their office. You can stay in touch with your machines at all times, and you can send and receive real-time information that saves time and enhances productivity. Choose between the entry level Essential Package or upgrade to the advanced Professional Package depending on your individual needs.

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PLM® SUPPORT SOLUTIONS

All of your PLM questions can be answered via the PLM® Portal, furthermore, a dedicated call centre is always on hand to provide further assistance should the need arise. If you want to unlock all of the performance boosting features, then enroll, via the PLM® Academy, on one of the training courses to become an expert in your field. Furthermore the PLM dealer certification gives you the peace of mind to know that you are dealing with a true PLM expert.

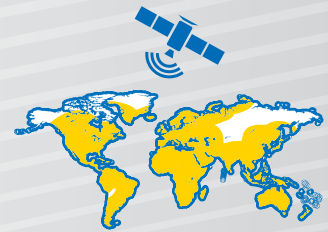
WHAT LEVEL OF PRECISION DO YOU NEED?

New Holland autoguidance solutions are compatible with a full range of guidance correction signals so that you can choose the exact level of precision that your operation requires. GPS and GLONASS correction signals are transmitted via a network of satellites that orbit the Earth and land based receivers can then determine their own position in relation to these signals. However, this alone is not accurate enough for agriculture, therefore a correction signal must also be used.

The Global Positioning System (GPS) is a space based satellite navigation system and is part of a larger system called the Global Navigation Satellite System (GNSS). GNSS is a term used for all satellite constellation systems used to provide positioning data. Currently GNSS only covers GPS and GLONASS systems. GLONASS is similar to GPS and both are available worldwide. When auto guidance receivers track both GPS and GLONASS signals together, the number of 'visible' satellites is greatly increased which reduces the risk of losing satellite coverage for increased uptime.

EGNOS / OMNISTAR VBS OFFER SUB 20CM ACCURACY

EGNOS and OmniSTAR VBS offer accuracy of 20cm. This means that you can come back to the same point in your field pass after pass and be within 20cm of where you were before. This system is perfect for operators that simply want to get in and drive away and is best suited to crop spraying and tillage applications where accuracy and repeatability are not of prime concern.



OmniSTAR VBS

RANGEPOINT RTX OFFERS 15CM ACCURACY

RangePoint RTX correction delivers a reliable, 15cm, pass to pass accuracy. This is ideal for all spraying and fertiliser applications.



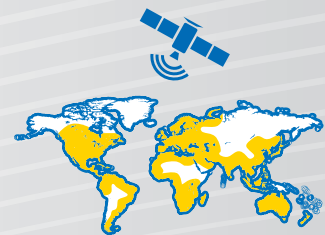
RTX

OMNISTAR G2, XP AND HP OFFER SUB 12CM ACCURACY

The third level of accuracy is OmniSTAR XP which is your ideal partner for high performance broadacre spraying and land tillage applications. The OmniSTAR G2 system is perfect for operations which rely heavily on guidance and demand an around-the-clock uninterrupted signal, this is guaranteed as GLONASS satellites are used in addition to GPS satellites. The highest levels of accuracy can be obtained with OmniSTAR HP correction signals with accuracy levels as high as 10cm, this makes it the natural choice when conducting broadacre seeding and harvesting.



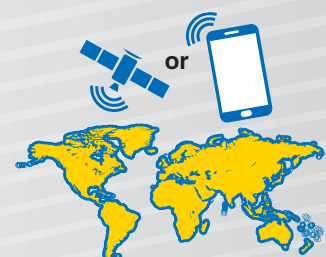
OmniSTAR G2 and XP



OmniSTAR HP

CENTERPOINT RTX PROVIDES REMOTE FARMS WITH SUB 4CM ACCURACY

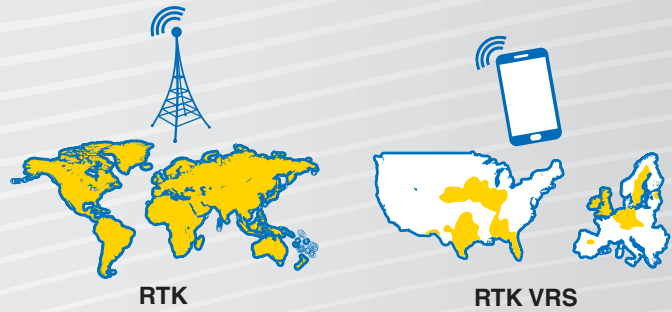
For businesses in the most remote locations, or that cover vast areas, CenterPoint RTX uses a network of satellites or your mobile telephone network, where coverage allows, to broadcast correction signals to keep your machine on the straight and narrow, thanks to outstanding repeatability.



CenterPoint RTX

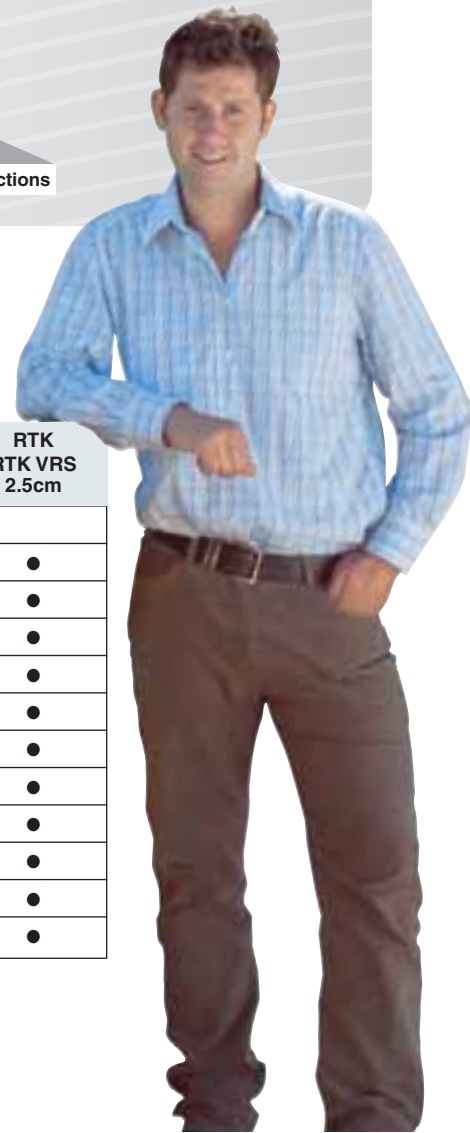
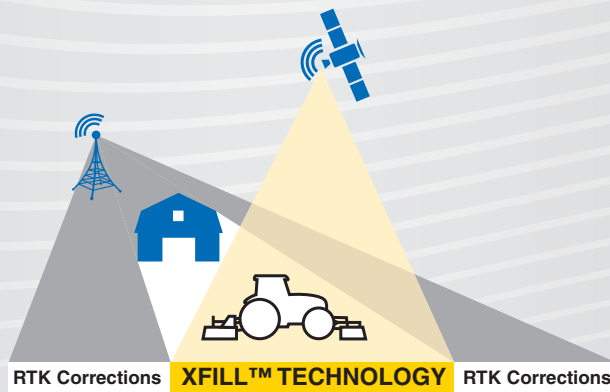
THE EXTENSIVE RTK RANGE OFFERS UP TO 2.5CM ABSOLUTE ACCURACY

RTK Radio Transmission uses a network of base stations in conjunction with radio correction signals to broadcast within a 12.87km radius of the base stations, when not obstructed by hilly terrain. RTK VRS uses your mobile telephone network to precisely locate your machine and provide real-time correction signals, without the need for base stations. With this level of accuracy you can conduct row crop applications, strip tilling, land levelling and even drainage applications which require precise horizontal and vertical accuracy. Quite simply, it's the most accurate precision farming solution around, together with accurate repeatability.



XFILL: BACKUP FOR AN RTK SIGNAL

Customers that work in rolling terrain, or when topography blocks the line of sight from the base station, XFill technology offers a reliable solution. XFill is a dependable backup system, which provides up to 20 minutes of correction following the loss of an RTK signal.



	AUTONOMOUS	EGNOS/ OmniSTAR VBS	RangePoint RTX	OmniSTAR GNSS/XP/HP	CenterPoint™ RTX	RTK RTK VRS
PRECISION	30 - 45cm	20cm	15cm	12 - 10cm	4cm	2.5cm
APPLICATION						
Spraying	●	●	●	●	●	●
Spreading	●	●	●	●	●	●
Tillage	●	●	●	●	●	●
Mapping	●	●	●	●	●	●
Mowing		●	●	●	●	●
Harvesting				●	●	●
Seeding				●	●	●
Hoeing					●	●
Bed Forming					●	●
Precision Planting					●	●
Strip Till					●	●

● Recommended



HOW ARE GUIDANCE SIGNALS TRANSMITTED AND RECEIVED?

New Holland offers a wide range of receivers and antennas so that you can select the model which perfectly matches your guidance needs. From top of the range models with full IntelliSteer® compatibility to the entry level option, which enables you to create simple yield maps, you'll find the right solution. From base stations which transmit RTK signals, to the DCM-300 Modem which receives RTK VRS correction signals and advanced terrain compensation technology, you've got guidance covered on your farm.



NH 062 RECEIVER

This entry level antenna can be used for mapping and is fully compatible with EGNOS correction signals.



NH 162 RECEIVER

This standard receiver can be used for yield or field mapping and is Autopilot compatible. It can receive EGNOS correction signals and is a differential GPS receiver. It boasts a strong magnetic attachment as well as a simulated radar output.



NH 372 RECEIVER

This top of the range receiver is compatible with RTK Radio Transmission, RTK VRS, OmniSTAR and GLONASS correction signals to guarantee year round, and season after season productivity and accuracy. Its slim profile makes it perfect for all machines.



AG 715 RADIO

The integrated RTK radio is designed for use with the NH 372 receiver and built for the agricultural environment. It is fully sealed against dust and rain. The AG 715 radio easily mounts under the NH 372 receiver housing.



AG 15 ANTENNA

This antenna is fully compatible with the EZ-Guide 250 monitor, and when used in conjunction with EGNOS correction signals, it enables pass-to-pass accuracy of 20cm and year-on-year accuracy of 90cm.



AG 25 ANTENNA

This antenna can be combined with the FM-750, FM-1000 and XCN-2050™ monitors, and is fully compatible with the full range of correction signals, including GPS, GLONASS, OmniSTAR and RTK, where a RTK radio is used.



DCM-300 MODEM

This is more than just a standard modem, it is your passport to enhanced productivity. It can receive the RTK VRS correction signal, but that is not all. It plays a fundamental role in the PLM® Connect Telematics applications, by transmitting and receiving key data to enhance productivity and reduce losses. It can also be linked to PLM® Software packages to transfer pre-prepared prescription maps and guidance paths.



NAVIGATION CONTROLLER II

Employing the industry leading T3 Terrain Compensation technology, the Navigation Controller II takes position information from the DGPS receiver, and sends precise steering instructions to the vehicle, ensuring on-line performance in even the most undulating and rough terrain.

T2 TERRAIN COMPENSATION

The T2 Terrain Compensation system uses sensors to calculate and correct the roll and yaw of the machine to help minimise skips and overlaps in areas with rolling terrain and rough ground.



T3 TERRAIN COMPENSATION

The T3 Terrain Compensation system uses sensors to calculate and correct the roll, pitch and yaw of the machine to help minimise skips and overlaps in areas with rolling terrain and rough ground.



RTK BASE STATION

The base station is comprised of an antenna, receiver and radio link to provide RTK correction signals to the autoguidance system. Furthermore, the base stations can receive both GPS and GLONASS signals. These stations have a working radius of up to 12.87km, and signal amplifiers can be positioned in hilly or forested areas to maintain coverage. The base station can either be fixed in one location or moved to suit your individual needs. Easy to use, they offer the ultimate in year-on-year accuracy and repeatability.





LIGHTING UP THE WAY WITH MANUAL GUIDANCE

The entry level guidance solution allows you to explore GPS guidance through a simple and affordable lightbar display. A lightbar based guidance system provides you with visual feedback to keep you on your intended path. You simply need to follow the green lights to stay on the right path. It even shows you which direction you need to steer in and by how much to keep your machine on the straight and narrow!

EZ-GUIDE 250 DISPLAY

GET ON AND GO SIMPLICITY

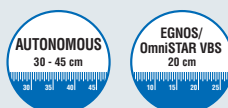
The EZ-Guide 250 is an easy to use and affordable tool that offers up to +/-20cm pass-to-pass accuracy. The built in OnPath filter technology provides improved pass-to-pass accuracy and the EZ-Guide 250 is compatible with all makes and models of equipment.

- 15 Bright guidance LEDs**
Give you quick visual feedback to keep you on track.
- 11cm colour screen**
Choose between plan and 3D perspective views, to see at a glance where you are and what you've been doing.
- Built-in GPS receiver**
Provides submeter accuracy, or EGNOS 20cm pass-to-pass accuracy with optional antenna.
- OnPath filter technology**
For improved pass-to-pass accuracy.
- GPS data output**
To supply GPS position data to your combine or forage harvester display for yield monitoring.
- Radar speed output**
- Field Finder technology**
Automatically locate stored fields as you drive near them.
- USB stick**
Simply transfer your day's coverage maps to your computer using a USB stick and easily print out coverage reports and import/export field and coverage maps via the same USB.
- Night or Day use**
Switch to Night Mode for better visibility when working in low light conditions. Mark and locate in-field hazards with feature mapping. Find the next path easily with SwathFinder assistance.

GUIDANCE OPTIONS WITH EZ-GUIDE 250

- Manual guidance – Lightbar.
- Assisted guidance with EZ-Steer system.

ACCURACY LEVELS



FM-750 DISPLAY

THE CORNERSTONE OF GUIDANCE, CAPABLE OF 2.5CM ACCURACY

The FM-750 is a multi-function display, and has a built-in receiver that allows you to choose the accuracy your application requires from +/-20cm to +/-2.5cm pass-to-pass and year-on-year. When you need a DGPS guidance system that saves you time, fuel and inputs, look no further than the FM-750.

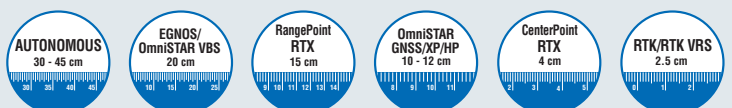
- 27 bright guidance LEDs**
 Give you quick on-line visual feedback to keep you on track.
- Attachable RTK Radio**
- Dual external Video input**
- Planter and sprayer monitoring and control**
- External lightbar**
 Position the optional lightbar just where you want for at-a-glance guidance path information.
- 20.3cm touch screen**
 Offers an all new intuitive user experience. Switch to Night Mode for better visibility at night. At row ends, easily find the next path with SwathFinder assistance.
- Built-in GPS and GLONASS receiver**
 Upgrade to receive GLONASS satellites and increase your satellite availability to extend your operating hours.
- USB stick**
 Simply transfer your day's coverage maps to your computer using a USB stick and easily print out coverage reports and import/export field and coverage maps via the same USB.
- Boom height control**
 Automatically adjust the height of your sprayer boom when used with Field-IQ control system.
- Field-IQ crop input control systems compatible**
 Use section control and variable rate application control technology to prevent seed and fertiliser overlap and manage the rate of seed, liquid or granular application.

Seven guidance patterns
 Offers guidance flexibility, allowing you to work in different patterns and shapes that best fit the layout and contours of your field.

GUIDANCE OPTIONS WITH FM-750

- Manual – Lightbar.
- Assisted guidance with EZ-Steer and EZ-Pilot systems.
- Integrated autoguidance with retrofit Autopilot system.

ACCURACY LEVELS





ADVANCED MONITORS FOR ADVANCED FARMING

The most sophisticated guidance systems require an intuitive monitor that provides instant control of all key parameters and real-time feedback based on actual field conditions. Both the FM1000 and the XCN-2050™ monitor can be fitted to a range of machines, as and when required, which means operators benefit from only needing to learn how one screen works, this significantly enhances operational efficiency. The FM-1000 and the XCN-2050™ displays offer industry leading performance and deliver productivity enhancing colour touchscreen functionality to enhance your agribusiness day in, day out.

FM-1000 DISPLAY

FLEXIBLE OPERATION. EFFICIENT FARMING.

The FM-1000 offers you ultimate performance and reliability with the industry leading dual integrated GPS and GLONASS receivers. It handles the full range of guidance tasks with ease, including steering and also offers fingertip mapping control. You can even choose the level of accuracy required, from 20cm right down to 2.5cm pass-to-pass and year-to-year.

• **Large 30.7cm touch screen**
Best visibility from a bright and large screen. Toggle between plan and 3D views or zoom in/out with just a tap of your finger.

• **Planter and sprayer monitoring and control**

• **ISOBUS compatible**

• **TrueGuide:** correct the position of your tractor to keep the implement on path.

• **TrueTracker:** correct the position of your implement to keep it on path.

• **Wireless data transfer**
Transfer your data from the field to the office with PLM® Software.

• **Field Finder technology**
Automatically locate stored fields as you drive near them.

XCN-2050™ DISPLAY

SOPHISTICATED GUIDANCE. INTUITIVE OPERATION

The ultra-wide screen XCN-2050™ display is compatible with the full range of correction signals and offers intuitive, colour multi-touchscreen operation. It has been designed to ensure full integration with advanced PLM technology including yield and moisture sensing, as well as a whole range of other precision guidance applications.

PLM Water Management compatible



Yield and moisture Monitoring
Collect crop yield and moisture data in real time during harvesting via sensors connected to the FM-1000 integrated display.

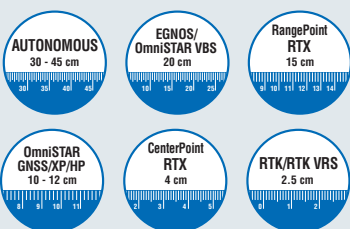
EZ-Remote control
The EZ-Remote joystick mounts to any tractor console, providing an even more convenient way to control a variety of guidance display functions from the cab. It enhances a wide range of tasks, from basic guidance operations to more advanced operations and features programmable keys for rapid engagement of tasks. Furthermore, operator comfort is enhanced, as they can rest their arm on the armrest without the need to reach for the display.



GUIDANCE OPTIONS WITH FM-1000 AND XCN-2050

- Manual - Lightbar.
- Assisted guidance with EZ-Pilot system.
- Integrated autoguidance with retrofit Autopilot system

ACCURACY LEVELS



Video camera inputs



Fingertip assistance

You are only ever a touch away from PLM assistance. Contact highly trained PLM specialists through the FM-1000 or XCN-2050™ display to solve all of your PLM queries while you are still in the field.

Vehicle Sync

Use Vehicle Sync to automate real time map sharing of overlap areas by combining the FM-1000 or XCN-2050™ display, DCM-300 Modem and the Field-IQ system.

Row Guidance system

Dual receiver

Two GPS plus GLONASS receivers provide ultimate precision for the vehicle, as well as working implements working behind the tractor.

Boom height control

Automatically adjust the height of your ISOBUS compatible sprayer boom via the display.

Triggered output

Just imagine a machine that automatically switched itself off when it was outside of your pre-defined boundaries. Well GPS triggered output technology does just that! When spraying or applying fertiliser for example, if the system detects the machine has breached a boundary, inputs will be switched off to prevent costly wastage.

Access paths

An access path is a space between your guidance lines. This feature is particularly useful if a road or another field feature, which breaks the constant flow of swaths, passes through the middle of your field. The system can be programmed to take account of these features to prevent wasted inputs or inappropriate activity in these areas. You can add either straight or curved paths for maximum flexibility.

Radio (Optional)

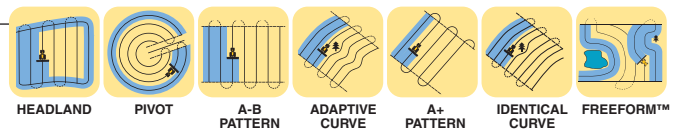
Integrated 430 to 470Mhz radio for RTK correction reception.

Field-IQ crop input control systems compatible

Use section control and variable rate application control technology to prevent seed and fertiliser overlap and manage the rate of seed, liquid or granular application.

USB stick

Simply transfer your day's coverage maps to your computer using a USB stick and easily print out coverage reports and import/export field and coverage maps via the same USB.



Seven guidance patterns

Offers guidance flexibility, allowing you to work in different patterns and shapes that best fit the layout and contours of your field.



THE NEXT STEP ALONG THE GUIDANCE ROAD

When it's time to progress in the world of guidance, assisted guidance is the natural next step. Offering sleek integration of steering motors, you can enjoy hands free operation so that you can concentrate fully on the task in hand. You can even fit your guidance solution to whichever machine you're currently using for the ultimate in guidance flexibility.

EZ-STEER SYSTEM

THE WORLD'S SIMPLEST HANDS-FREE FARMING SYSTEM

EZ-Steer is a simple portable hands-free steering system for all vehicle models, old and new. The EZ-Steer system turns the steering wheel for you by combining a friction wheel and a drive motor, which is commanded indirectly by an output from the guidance display. EZ-Steer keeps you on line in undulating terrain and when working on terraces, it also helps you avoid ditches and waterways so that you can focus on the task in hand, be that spraying or planting. Put simply, it improves performance, quality and crop yields all whilst reducing stress.



• **EZ-Steer controller**

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



• **EZ-Steer motor**

The EZ-Steer motor receives electrical signals from the EZ-Steer controller and converts them into precise commands that the machine's steering system uses to keep the machine on track. You can resume control of your machine at any time by simply turning the steering wheel. An optional foot switch allows you to engage and disengage the EZ-Steer conveniently for hands-free farming.

COMPATIBLE DISPLAYS

The EZ-Steer system can be matched with EZ-Guide 250, EZ-Guide Plus, FM-750, FM-1000 or the new, XCN-2050™ display, with its ultra-wide 30.7cm screen delivering up to +/-2.5cm GPS accuracy with RTK technology*.

*RTK not compatible with EZ-Guide 250.



EZ-PILOT SYSTEM

THE NEW 'INVISIBLE' ASSISTED STEERING SYSTEM

EZ-Pilot is a high-performance, low-cost, assisted steering solution that is sleekly integrated into the vehicle's steering column, and it can be installed on most brands of tractor and harvesting machinery. This advanced solution also features T3 Terrain Compensation Technology, which keeps you perfectly online in even the most undulating conditions and when working on terraces.



• EZ-Pilot controller

Using data from the GPS receiver, the EZ-Pilot controller sends precise instructions to the steering wheel motor. T3 Terrain Compensation technology continually corrects for roll, pitch and yaw by using three-axis solid state inertial sensors to give you a true on-ground position.



• Advanced motors for guaranteed productivity

The sleek motor design is fully integrated into the steering column and provides clear access to the instrument cluster and other vehicle controls whilst maintaining telescopic functionality where present. The high-torque electric motor has been developed to overcome the resistance of machines with more rigid power steering systems for guaranteed performance. A fast-reacting electric motor allows the system to quickly make steering adjustments to keep the vehicle online and make sure it stays there.

• Flexible installation options

You have the choice of using your machine's original steering wheel or installing the optional steering wheel which provides an offset that returns the wheel back to the original height.

COMPATIBLE DISPLAYS

The EZ-Pilot system can be combined with the FM-750, FM-1000 or a new XCN-2050™ delivering up to +/-2.5 cm GPS accuracy with RTK technology.





INTELLIGENT OPERATION FOR INTELLIGENT MACHINES

INTELLIVIEW™ III AND IV TOUCHSCREEN MONITORS

The IntelliView™ III colour touchscreen monitor is your partner in all farming operations and is available on the T6 Auto Command, T7, T8 and T9 tractor ranges, on the CX5000, CX6000 and CX Elevation combine series and on the BigBaler range. The CX Elevation and CR combines and FR forage harvester ranges are fitted with the new widescreen IntelliView™ IV colour touchscreen monitor as standard, it is an upgrade option on the BigBaler range, Speedrower® Self-propelled Windrowers and can be used as a second screen for precision farming applications on T7, T8 and T9 tractor ranges. Both the IntelliView™ III and IntelliView™ IV displays communicate directly with the IntelliSteer® system together with the machine's CAN Bus, and display key operating parameters in real time on just one screen. Maximum operator comfort is guaranteed thanks to the intuitive operating logic which enables you to see just where you are, and enables you to select the precise information you wish to browse, monitor and control.

PLUG AND PLAY ISO-BUS COMPATIBILITY

The IntelliView™ III and IV colour touchscreen displays are not simply machine noticeboards. Far from it! They are fully ISO-BUS compatible, so can be used to operate a wide range of implements including balers and sprayers. The result? One monitor controls all applications. By using one screen you can switch between tasks even quicker and improve overall visibility.

The ISO Task Controller further integrates implement functionality within the PLM package and can manage a whole range of implement parameters to provide precision control of implements to maximise productivity and efficiency.

GUIDANCE. MACHINE CONTROL. PERFECT

New Holland knows that operators need to keep an eye on both key machine parameters as well as guidance information. That is why they have developed the dual screen solution. Customers can view IntelliSteer® autoguidance run screens and coverage maps as well as vehicle controls simultaneously.

ADVANCED INTELLIRATE™ CONTROL SYSTEM

The IntelliRate™ Control section is operated from the comfort of the cab. Use the cab-mounted monitor to fine tune inputs and manage section and rate control of sprayers, to prevent overlaps, to control dosage rates depending on yield data and to eliminate gaps; this will optimise inputs to maximise outputs.

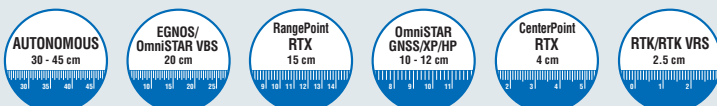
• **26.4cm IntelliView™ IV display**
Wide touch screen offering an all new intuitive user experience.

• **Fingertip adjustment of all key settings**
Together with full compatibility with the New Holland IntelliSteer® guidance system.



• **17.8cm IntelliView™ III display**
For fingertip touch screen monitor control.

ACCURACY LEVELS



ULTIMATE COMFORT

With autoguidance you can concentrate on the task in hand, ensuring your header is 100% full, the crop flow is uniform or that your implement is performing as it should. This offers significant gains in productivity. The T6 Auto Command, T7, T8 and T9 tractor ranges benefit from the SideWinder™ II armrest, which has set the benchmark in operational comfort, all controls fall perfectly to hand, and the 40° of seat swivel make working with rear mounted implements a breeze. The CX, CR and FR ranges benefit from industry leading harvesting consoles which enhance operational ergonomics for significant productivity increases.



• Monitor and record field performance operations

Area and distance, fuel usage, hectares per hour and engine operating parameters, slip and work rate can all be recorded and monitored.



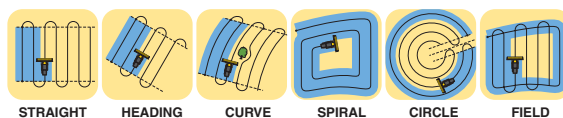
USB flash drive

Simply transfer your day's coverage maps to your computer using a USB stick and easily print out coverage reports and import/export field and variable rate coverage maps via the same USB.



Up to three cameras

Linked to the IntelliView™ III and IV monitors, they are perfect for monitoring implements and eliminating blind spots whilst manoeuvring and unloading.



• Guidance pattern

The IntelliSteer® System, when linked to the IntelliView™ III and IV monitors, can apply a number of different steering patterns.



FULLY INTEGRATED NEW HOLLAND AUTOGUIDANCE INTELLISTEER® SYSTEM

IntelliSteer is a fully integrated New Holland designed and developed Automatic Steering System. Available from the factory or as a retrofit package, the IntelliSteer® system maximises productivity and efficiency to optimise your yields and to increase your profits.

Matching DGPS or RTK Technology to fully integrated control, IntelliSteer helps ensure parallel pass-to-pass accuracy of up to 2.5cm. IntelliSteer is the natural choice for precision work in even the most demanding conditions and it has been designed to dramatically enhance operator performance and comfort. Furthermore, this can be linked to Controlled Traffic Farming (CTF) applications.



IntelliView™ III and IV monitor

The IntelliView™ III and IV colour touch screen monitors make programming and personalisation of autoguidance settings as easy as 1-2-3. They also provide the visual interface when operating the IntelliSteer® System.



IntelliSteer On and Off simplicity

The CommandGrip™ handle* incorporates a single button that is used to activate the IntelliSteer® system. Making advanced technology accessible is a key New Holland hallmark.
*T6 Auto Command, T7, T8 and T9 tractors.



Navigation Controller II

The IntelliSteer® system benefits from the industry leading Navigation Controller II device with T3 terrain compensation technology.

New Holland Integrated Steering Sensor

This built-in steering sensor measures highly accurate wheel angle information on all terrain and sends it to the Navigation Controller II providing faster correction and increased steering accuracy.

A COMPLETE GUIDANCE PACKAGE

You can order your machine with either IntelliSteer as a factory installed option, or simply with an IntelliSteer® ready package. This top of the range option is available on the T6 Auto Command, T7, T8 and T9 tractor ranges, as well as on the CX Elevation and CR combine series. You can also specify IntelliSteer on Speedrower® Self-propelled Windrowers, to ensure the straightest lines of crop to enhance the productivity of your combines, forage harvesters and balers. The system includes a NH 372 receiver, steering angle sensor, or a solid state gyro, the Navigation Controller II, a hydraulic control valve which converts the signals from the Navigation Controller II into hydraulic movements of the steering system.



• New Holland Vehicle Interface

Receives navigation commands from the Navigation Controller II which control the vehicle's steering when engaged.



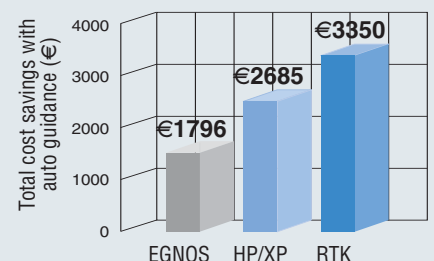
NH 372 Receiver

The New Holland 372 antenna receives both DGPS and GLONASS signals to guide the vehicle. This antenna can easily be transferred from tractor to tractor or even to your combine or forager. For RTK applications a slim profile radio mounts underneath the receiver.

GOOD GUIDANCE SAVES MONEY*

IntelliSteer helps improve overall operating efficiency. In poor light or during long working days precision driving is not compromised. Improved efficiency saves money. It is as simple as that.

*Based on 500 ha farm and 5m wide implement. Including tractor rental, fuel, labour, fertiliser/seed and chemical costs per ha.





GO WITH THE CROP FOR ULTIMATE PRECISION

SMARTSTEER™ SYSTEM

FULL HEADERS 100% OF THE TIME. PRECISION HARVESTING IN ALL CONDITIONS.

The SmartSteer™ system uses a laser beam instead of the traditional optical 3D recognition found on conventional tracking systems, it is perfect for dusty conditions or when harvesting late into the night. When combined with the New Holland PLM® Software package, you get enhanced harvesting performance and improved yield mapping.

HOW IT WORKS

By scanning the edge between the cut and uncut crop with a laser eye, the SmartSteer™ crop guidance system automatically guarantees the header is always full, right to the edge. How? It generates an exact line of uncut crop, this then sends signals to the steering system to follow this precise path. The result? Operators can concentrate on other combine functions to maintain maximum performance. The most advanced system is available on CX Elevation and CR combines, as the operator can set the laser scanner to detect the crop edge on either the left or right hand side courtesy of simple in-cab controls. On the CX5000 and CX6000 range, only the left hand side of the header can be detected. As the SmartSteer™ system is fitted to the combine itself, it is fully compatible with all types of header, offering you ultimate accuracy with operational flexibility as standard.



AVAILABILITY

CX5000, CX6000, CX Elevation and CR.

ROW GUIDANCE SYSTEM

MAIZE HEADERS SOLUTION

Maize headers can be specified with row guidance to keep the combine or forage harvester perfectly on course. Two sensors continuously monitor the position of the crop entering the header, and automatically guide the machine to ensure true perpendicular entry even in poor visibility or at high speeds. The system can also be linked to a GPS positioning system, which can distinguish between cut and uncut rows, to facilitate night-time harvesting and advanced harvesting activities such as skip row functionality.



AVAILABILITY

CX5000, CX6000, CX Elevation, CR and FR.



ALWAYS AVAILABLE. BEFORE OR AFTER. ON ALL MAKES AND MODELS AUTOPILOT SYSTEM

MEETING YOUR PRECISION REQUIREMENTS

The Autopilot automated steering system, when used with an RTK signal, will give +/-2.5cm repeatability in all field tasks, from planting to harvesting and following any in-field pattern. The Autopilot system can be integrated into most brands of tractor and harvesting machinery, and it uses the machine's electro hydraulic circuit to provide automatic guidance. This retrofit solution will significantly increase your efficiency during field preparation, planting and harvesting as you'll be able to drive more accurately and consistently during extended periods behind the wheel.



Compatible Displays

The Autopilot System can be matched to FM-750, FM-1000 or the XCN-2050™ displays, delivering up to +/-2.5cm GPS accuracy with RTK technology.



Compatible with EZ-Remote control



Vehicle Interface

Receives navigation commands from the Navigation Controller II which controls the vehicle's steering when engaged.



Autosense Steering Sensor
This unique steering sensor measures highly accurate wheel angle information on all terrain and sends it to the Navigation Controller II providing faster correction and increased steering accuracy.



Navigation Controller II
The Auto Pilot system benefits from the industry leading Navigation Controller II device with fully integrated T3 terrain compensation technology.



Antenna
Mounted to the tractor or implement to provide up to 2.5cm pass-to-pass and year-on-year accuracy.

**Implement Guidance and RTK
Increase Your Accuracy And Yields**
Compatible with the FM-1000 display, and thanks to a DGPS antenna mounted on the implement, the TrueGuide and TrueTracker systems keep your implement on a repeatable path on inclined fields with steep gradients and in variable soil conditions. Retrofit installation kits are compatible with most manufacturers' implements.



IMPLEMENT GUIDANCE FOR TRUE IN-LINE AND ON COURSE OPERATIONS

KEEPING YOUR ENTIRE PRODUCTION ON COURSE

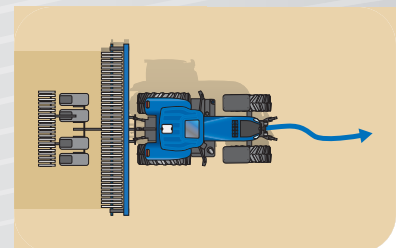
Guidance is mainly focused on the machine itself, but when working with large implements, such as the very widest planters and seed drills, the implement also needs to receive a guidance correction signal to ensure that it perfectly follows your tractor. After all, there is no point in keeping the tractor on the straight and narrow while your drill slips slowly down the hill! New Holland has developed a range of solutions that can work in three dimensions for ultimate whole vehicle accuracy.





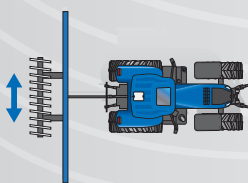
TRUEGUIDE – IMPLEMENT CONTROL

The TrueGuide implement guidance system uses the existing tractor Autopilot system to improve implement accuracy. There is no need to hang additional steering equipment off of the implement for better control or to minimize the downdraft effect on severe hillsides. Simply let your Autopilot system pull the implement up the hill and ensure it toes the line. In short, the tractor is steered off line, to keep your implement on line. This system is FM-1000 compatible.

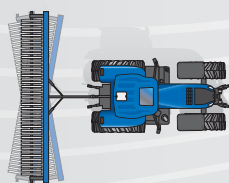


TRUETRACKER – TAKE FULL CONTROL

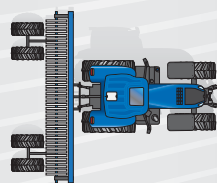
The TrueTracker system is an independent navigation system mounted on the implement that communicates with the tractor's Autopilot system to provide you the highest level of accuracy. The TrueTracker system independently steers the implement on a repeatable path, even on extreme slopes and in variable soil conditions, using a hydraulic solution together with T3 terrain compensation technology which is mounted on the implement. TrueTracker is compatible with the FM-1000 display.



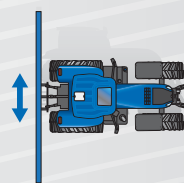
STEERING COULTERS



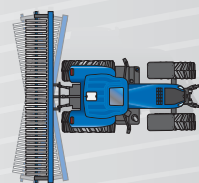
TONGUE STEER



LOAD BEARING WHEEL



SIDESHIFT



ARTICULATING THREE POINT



INPUT CONTROL SYSTEMS: MANAGING INPUTS TO MAXIMISE OUTPUTS

FIELD-IQ CROP INPUT CONTROL SYSTEMS

The Field-IQ crop input control system is a variable rate and section control system that runs on FM-750 or FM-1000 monitors. It prevents seed and fertiliser overlap, controls the rate of material application and monitors seed delivery. Field-IQ automatic section control is able to control up to 48 individual rows, eliminating waste and double application of inputs by automatically shutting off rows or sections in areas which have already been covered, or do not require application.

AUTOMATIC SECTION CONTROL

Section Control automatically shuts off rows or sections, eliminating double application of seed and fertiliser. It uses the tractor's GPS system to automatically turn on and off individual planter sections in areas that have already been covered, or at headland turns, point rows, waterways or terraces. Double planting of rows is avoided, enhancing yields and eliminating waste.



Without seed monitoring



With seed monitoring



VARIABLE RATE APPLICATION CONTROL

Vary application rates using prescription maps to better manage field variability. Variability in fields can be influenced by factors such as soil properties, topography, cropping history and field use. GPS position is communicated to the rate controller as the application equipment moves across different zones in the field, enabling it to vary application rates by zone. Rather than just applying a constant seed rate you can apply higher seed populations in well irrigated or highly fertile areas to maximize yield performance and use a lower application rate in less fertile areas or areas with poor irrigation. Also you can tailor chemical and fertiliser application in areas as required, lowering input cost and further enhancing yields.

INTELLIRATE™ CONTROL

IntelliRate™ Control is a variable rate and section control system that allows you to control rate and flow applications on mixed fleets of implements using an integrated New Holland IntelliView™ IV display.

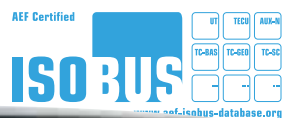
- Use automatic section control to switch on/off up to 48 individual rows.
- Eliminate double application of seed and fertiliser.
- Control material applications including liquid and NH3.
- Read prescription maps to manage field variability and maximize yield potential.
- Monitor and record planter population rates.
- Applied mapping for tracking varieties and hybrids.
- Single display solution on New Holland equipment for running key vehicle features, auto guidance and controlling mixed fleets of implements.



PLM ISO TASK CONTROLLER

Control mixed fleets of ISOBUS compatible implements using your integrated New Holland IntelliView™ IV display.

- Send commands to an ISOBUS compliant implement to modify its actions based on GPS positioning.
- Automatically switch on/off planter sections.
- Prevent seed and fertiliser overlap.
- Control application rates with prescription maps.
- Map and log job dates.
- Single display solution on New Holland equipment for running key tractor functions, auto guidance and controlling mixed fleets of implements.



MANURE MANAGEMENT

Spreading waste-based nutrients can help you grow more, while lowering fertiliser cost and protecting the environment. It is important that manure is always applied within an acceptable area and not dispersed where regulations prohibit. Manure management using the FM-750 will record dispersal location and keep track of the nutrients that have been applied on your farm.

Liquid Spreading

- Precisely monitor and control liquid spreading applications, saving input costs and meeting environmental regulations.
- Create prescription maps and vary the rate depending on manure and soil properties.
- Ensure that manure is applied in the correct areas and not where regulations prohibit.
- Track applied nutrients and record dispersal locations.

Dry Spreading

- Utilize the FM-750™ display to help you accurately map and apply dry manure when spreading.
- Ensure that manure is applied in the correct areas and not where regulations prohibit.
- Track applied nutrients and record dispersal locations.





MANAGE YOUR HARVEST FOR GUARANTEED RETURNS YEAR AFTER YEAR



INTEGRATED NEW HOLLAND SYSTEMS HELP INCREASE YIELDS

Precision farming has been engineered by design into the TC, CX5000, CX6000, CX Elevation, CR combines, the FR forage harvester series and the complete range of BigBalers to provide you with real-time information to maximise both crop and equipment performance.

- Permanently record your yield in precise locations and store it for future reference.
- Constantly analyse real-time moisture information to ensure your crop is always harvested in peak condition.
- Prepare application maps for accurate, site-specific fertilising, seeding and spraying in relation to actual yields to increase your profits.

REAL TIME COMBINE MOISTURE SENSING

New Holland's moisture sensor measures grain moisture in real time. Samples are taken every 30 seconds and the data is sent to the IntelliView™ monitor. As the information is delivered in real time, the operator is kept continually informed and can adapt machine parameters accordingly. For the most accurate readings, sensor calibration is required for each different crop type.

COMBINE YIELD MAPPING

The exclusive patented, high accuracy yield sensor developed by New Holland is generally recognised as the best in class. Its design neutralises the rubbing effect of grain. Whatever the kind, the variety or the moisture content of the kernel, the sensor generates an extremely accurate yield measurement. If that wasn't enough, once you have initially calibrated your sensor at the beginning of the season, no further intervention is required.

ACTIVELOC™ TECHNOLOGY: MOISTURE ADAPTED CHOP LENGTH

The FR now features revolutionary ActiveLoc™ technology. Real time moisture sensing is used in combination with pre-set chop length parameters to control the length of the chop depending on moisture content. This increases clamp density as well as improving silage quality for an enhanced nutritional profile.

PRECISE ADDITIVE APPLICATION

All forage harvesters and BigBalers are equipped with precise additive application systems which interface with the on-board moisture sensors to deliver the precise amount of crop additive to guarantee quality.

FORAGE HARVESTER YIELD MAPPING

Precise yield data is also displayed on the IntelliView™ monitor, thanks to sensors that are located in the feed roll linkage which analyses crop throughput; this is combined with the machine's forward speed to give accurate yield information. This data can be printed out on the on board job printer.

INTELLIFILL. LET YOUR FR FILL THE TRAILER FOR YOU

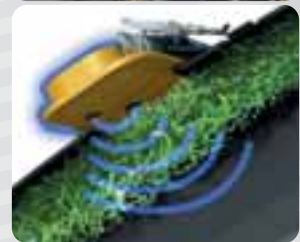
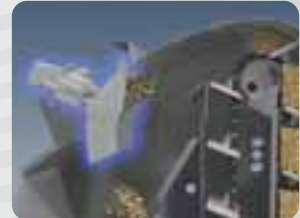
Operating a forage harvester requires extensive experience and a high level of concentration. For maximum focus on crop flow and in-field progress, the ingenious 3D camera-based IntelliFill™ system automatically detects the trailer edge and monitors filling. Whatever the trailer size or shape, it automatically controls the spout movement to perfectly fill right to the trailer's edges without spillages.

ON THE GO ACTIVEWEIGH™ SYSTEM

Bale weighing sensors are integrated into the bale discharge chute of the BigBaler and register the weight of the bale at the point at which it becomes free from the chute, just before it drops to the ground. The ActiveWeigh™ system is independent of bale length, field conditions and baler movement. All information, including single bale weight, average weight, total weight and tonnes per hour are all displayed on the IntelliView™ monitor. Furthermore, this all happens while you continue to pick-up for non-stop baling. If that wasn't enough, a 2% accuracy level means you'll produce the bales precisely as required.

BALER MOISTURE SENSING

It is imperative to record bale moisture, as an over-wet crop will spoil and be useless. The BigBaler moisture sensor uses two star wheels to penetrate the bale and an electric current is passed through to determine the exact moisture of the bale. This is then displayed on the IntelliView™ monitor which prevents unready crop from being baled, and enables the precise application of additive.





EFFICIENT PLM SOLUTIONS FOR SPECIALIST GRAPE AND OLIVE OPERATIONS

THE FINEST GRAPES MAKE THE FINEST WINES

EnoControl™ grape harvesters read pre-prepared harvesting maps in real time to sort grapes of differing qualities into two different hoppers to ensure that only the finest grapes make the finest wines. Part of the premium viticulture strategy, you can be sure to increase your profits. Furthermore, these maps can be used to control inputs to bring uniformity to yields and to manage costly inputs. FORCE-A's award winning Multiplex® anthocyanin sensor enables you to access real time grape maturity information on Braud 9000 machines.



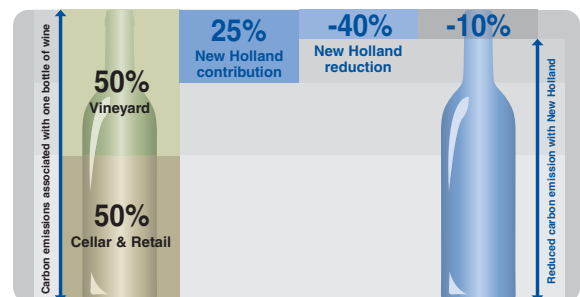
THE CLEAR PATH FOR SUCCESS

Row tracing technology uses guidance correction signals and a machine-mounted antenna to ensure that each and every row is covered just once. This consigns duplicated rows and wasted inputs to the history books, increasing harvesting productivity and efficiency as well as reducing operator fatigue during long working days as they automatically know just where to go.



ECOBRAUD REDUCES YOUR CARBON FOOTPRINT

Consumers are increasingly demanding farm produce with a reduced carbon footprint, and the ECOBraud strategy, that encompasses the complete range of New Holland viticulture equipment, including Braud grape harvesters and speciality tractors does just that. When fuel savings from IMS and fertiliser savings from spreader management are combined, a reduction in the carbon footprint of vineyards by up to 40% is achievable, well ahead of the 2020 targets, which mandate a 20% overall reduction. This will directly contribute to a 10% reduction in the overall carbon footprint of each and every bottle of wine produced.



MANAGING VARIABLE RATE INPUTS

The spreader management package uses Field-IQ technology to automatically vary the quantity of fertiliser being applied, depending on requirement. The system reads pre-prepared yield maps, and only applies fertiliser where it is needed to reduce input cost while maximizing yields.





TELEMATICS: MANAGE YOUR MACHINE FROM THE COMFORT OF YOUR OFFICE

PLM® Connect enables you or your fleet manager to connect to your machines from the comfort of your office through the utilization of the mobile network. You can stay in touch with your machines at all times, and you can even send and receive real-time information that saves time and enhances productivity.



**PLM® CONNECT ESSENTIAL:
STANDARD TELEMATICS PACKAGE**

The entry-level PLM® Connect Essential package features fleet management and mapping functionality and can track all machines on a single webpage as well as displaying their current positions and actual activity. Moreover machine security is enhanced as virtual geofences and curfews can be set, which alert fleet managers when machines are used outside pre-defined working hours or areas to keep machines safe from theft or unauthorized usage.



**PLM® CONNECT PROFESSIONAL: STATE
OF THE ART TELEMATICS FOR
ADVANCED AGRIBUSINESSES**

The PLM® Connect Professional telematics package offers all of the features included in the Essential package plus the ability to visualise different machine displays to monitor operating parameters and fault codes. It is also possible to immediately send a message to the operator by using the messaging system on the web portal, to which they can respond for validation. Machine operating information can be transformed into performance analysis reports, by using PLM® Software, that can be used to enhance productivity and efficiency and assists in swift decision making. Fuel usage is monitored to prevent theft and fleet managers can even activate message alerting functionality. Furthermore, each machine can be instantly tracked and location reports are sent in real-time to monitor current usage profiles and assist contractors in managing work flows.





A COMPLETE SOFTWARE PACKAGE FOR 360° FARM PROFITABILITY

PLM® SOFTWARE



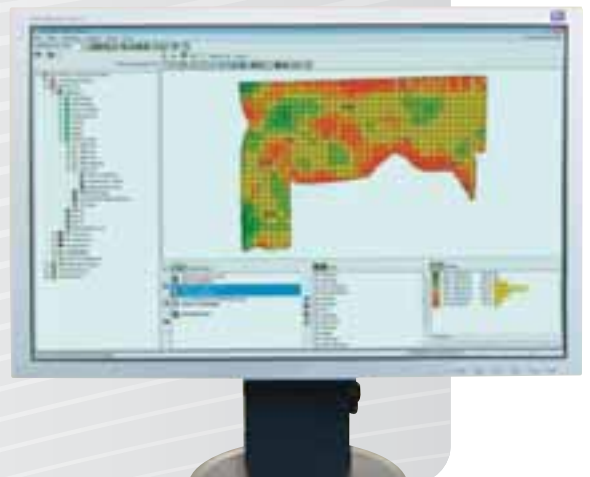
Advanced PLM operations are demanding increasingly sophisticated monitoring and management techniques, and New Holland has introduced an upgraded PLM software package to meet those requirements. PLM Software is accessed via the PLM® portal.

PLM® VIEWER

A zero-cost package, that enables the reading and writing of data such as client, farm and field names together with job data including yield and coverage maps to popular precision farming devices.

PLM® MAPPING

This is the main package for record keeping of fields, mapping and analysis. You can layer a variety of topographical and yield maps to establish yield performance, and compare these with average multiple year maps to identify areas that deliver consistently high or low yields. Variable rate prescription maps using formulas based on soil types can also be created, together with yield or other maps. Guidance paths can be created or edited, and reports can be printed for seeds varieties, restricted use chemicals, fertiliser usage, equipment maintenance and more.



PLM® BOOKS

Access the profitability of field, livestock herds and equipment and print tax reports for both cash and accrual ledgers. If you want to keep up to date with the inventory for supplies, seeds, chemicals, fertiliser, feed, harvested crops and livestock, then you've just found out how!



PLM® WATER CONTROL

Water is precious and it is the lifeblood of your farm. With PLM® Water Control you could increase yields by up to 25% and cut your farm's water consumption by up to 30%. The field levelling technology facilitates land levelling and levee design for unsurpassed efficiency. The drainage solution packages integrate survey data, analysis, design, installation and mapping to provide the most efficient drainage package. Further package functionality includes identifying optimal placement of tile and surface drains in both surface and sub-surface drainage projects. You can view field topographical data in 3D from any angle and exaggerate the vertical to visualise the shape and slopes of the field. Why not utilise the drawing tools to tie laterals to mains, create parallel lateral spacing and clip drainage lines. How about finalising the layout and design of drainage tiles' by size, pipe type and phase and then enter minimum depth, maximum depth and optimum grade for each.



PLM® MOBILE

Software that is suitable for the new generation, mobile, handheld field computer devices that includes record keeping, mapping field boundaries and drainage lines, scouting, soil sampling and variable rate application functionality.



ALWAYS WITH YOU IN YOUR FIELD

New Holland knows that when you require support and assistance you don't want to wait, that's why we've developed a three pronged approach to PLM® support. The online PLM® Portal is an open-all hours, one stop shop for all of your PLM questions. If you would like to speak to a highly trained operator, then call the dedicated PLM® Top Service number. However, if you would rather deal with someone face to face, PLM 'flying doctors' are on hand to come to your farm, and solve your problem, in your field, with you.

PLM® PORTAL

Via the PLM® Portal you can receive an upgraded service, with both on-line and telephone support, together with classroom training in your own language. You can browse the latest PLM news, search for additional product information and user guides as well as accessing the 'My Account' area which contains all of your own personalised information. You can even find out how to get even more from your PLM solution with on-line training videos and tutorials.



WWW.NEWHOLLANDPLM.COM



PLM® SOFTWARE SUPPORT

A significantly enhanced software support service, managed in conjunction with SGS, a multi-national company specializing in agricultural services is now available. You can enroll in a whole host of courses which will enable you to unlock every last ounce of potential from your precision farming packages.



PLM® TOP SERVICE CALL CENTRE

A dedicated PLM hot-line is available around the clock with highly trained operators waiting to take your call and resolve any potential issues and answer any questions you may have.



TOP SERVICE
00800 64 111 111

PLM® ACADEMY

If you would like to find out more about PLM products, then why not enroll in the PLM® Academy. A wide range of courses are available to help you further enhance your knowledge, and to enable you to squeeze every last ounce of potential out of your on-farm PLM solution. If that wasn't enough, you can access quick-reference tutorials or the video training library to ensure you keep up to date with the latest PLM developments.



PLM® ON FARM SUPPORT

The most demanding customers can select a 'flying doctor' service; a PLM specialist will visit your farm, to resolve any software issues.



PLM® COST SAVING CALCULATOR

If you would like to find out just how much you could save by using advanced PLM® technology, then download the PLM® cost saving calculator app. Available on all tablets and smart phones, you simply select the task you wish to carry out, such as cultivation or harvesting, enter key parameters including fuel and input costs and the area to be worked, and the app will tell you just how much you could save if you were to use PLM® guidance and/or PLM® input control solutions.



PLM® ACADEMY APP

The new PLM® Academy App gives you remote access to valuable tutorials and videos through your smartphone or tablet.

- Remotely access tutorials, even while in your machine
- Easy access for machine operators
- On the job learning while in the cab or field
- Videos and tutorials can be watched in 'off-line' mode
- Continuously updated content.



PLM® CERTIFIED DEALERS

In order to deliver top quality service and support, New Holland has developed the PLM® Certified Dealer programme. Wherever you see this logo, you're sure to find experts to support your PLM investments.



NEW HOLLAND. A REAL SPECIALIST IN YOUR AGRICULTURAL BUSINESS.



New Holland prefers **AMBRA** lubricants

AT YOUR OWN DISTRIBUTOR



Visit our web site: www.newholland.com
Send us an e-mail: africa.topservice@newholland.com
middleEast.topservice@newholland.com

New Holland with



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