2018 PRECISION AG PRODUCT GUIDE

VIDEO
DRONES
DISPLAYS
HARVEST
PLANTING
SOFTWARE
APPLICATION
DATA MANAGEMENT
STEERING & GUIDANCE
WATER MANAGEMENT

YOUR PARTNER in the FIELD!
WHO WE ARE  NEW Cooperative Precision Ag is a full-service agronomic provider that supplies precision agriculture solutions through services, sales and support to customers looking to add value to their farming operation. The products and services available assist farmers in gaining insight into their fields to improve management decisions. All the services and solutions offered by NEW Cooperative are customized and tailored for each farmer’s individual needs to best fit their specific farming objectives.

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**COMPASS** | 7” Display

**AN ENTRY-LEVEL SOLUTION OFFERING GUIDANCE AND VIRTUAL TERMINAL CAPABILITIES**

The Compass display offers integrated onscreen guidance to increase accuracy and extend working hours. Additionally, the Compass display supports the most common and advanced guidance patterns, including SmartPath™.

Features:
- Compact design with built-in lightbar
- 7” color touchscreen
- Built-in manual guidance
- Combine with OnTrac3™ assisted steering or SteerCommand™ with GPS 6500 integrated steering system for high-end guidance
- Compatibility with ISO 11783 Virtual Terminal Standard
- Fullscreen mapping

**VERSATILE PRECISION AG DISPLAY**

The InCommand 800 display serves as an economical hub for your precision farming operations.

Features:
- Tablet-like interaction
- DisplayCast™
- Swipe, pinch, pan and zoom gesture support
- Touch and go homescreen apps
- Satellite imagery background
- Display to display communication
- Integrated lightbar
- Year-round functionality
- ISOBUS/Universal Terminal/Task Controller
- WiFi adapter included
- Syncs data, maps with iPad using AgFiniti® Mobile

**THE FLAGSHIP OF THE INCOMMAND LINE**

Our smartest, simplest, most flexible display ever. Loaded with advanced features and user-friendly functionality you’ve come to expect from Ag Leader.

Features:
- Tablet-like interaction
- DisplayCast™
- Touch and go homescreen apps
- Split screen view
- Row by row mapping
- Display to display communication
- Satellite imagery background
- Integrated lightbar
- Advanced planter control
- Year-round functionality
- ISOBUS/Universal Terminal/Task Controller
- WiFi adapter included
- Syncs data, maps with iPad using AgFiniti Mobile

DisplayCast™ Feature allows you to transfer configurations, guidance lines and coverage maps. Available on the 800 and 1200 Models
X14

FULL COLOR 3D TOUCH SCREEN
PACKED WITH FEATURES

Designed for entry-level guidance, the X14 offers Horizon software in a simple, easy-to-use format. A full color 3D touchscreen offers moving map guidance or autosteering, as well as a virtual on-screen lightbar. Full-featured for its size, the X14 offers a modular design with on-screen navigation menus, a range of steering patterns, plus coverage mapping and return-to-point.

Features:
- Full range of easy-to-learn, easy-to-use, easy-to-upgrade

X25

A POWERFUL CONSOLE
FOR MACHINE CONTROL
AND AUTOSTEERING

The X25 can simultaneously display three separate functions on-screen and is rugged, reliable, easy-to-use, and offers ISO compatibility. It allows adoption of precision farming practices into more operations to lower input costs, increase machine automation, and enable higher operational efficiency.

It includes all features of the X14 plus:
- Multi-touch screen with mini-view drag-and-drop info windows
- Full mapping and data management capability
- Full ISO UT and ISO TC embedded
- Basic and advanced feature packages for any size operation
- Exportable boundary, coverage, logging and as-applied maps

X30

AN INTUITIVE USER INTERFACE WITH AN
ICON-BASED, USER-DEFINABLE, MULTI-TOUCH SCREEN

This premium-featured console offers mini-view, drag-and-drop info windows, user-definable dashboard, and interactive keypads. It can simultaneously display five different functions on-screen, while providing a wealth of control and display options that give feedback from multiple points throughout your equipment. Because it is designed with Topcon modularity, it is easy to upgrade as your farming needs grow.

It includes all features of the X25 plus:
- Variable Rate Control (VRC) for up to 8 products
- 30-section auto section control (ASC) of sprayer, spreader, or planter
- Up to 32-section ASC with ISO task controller (TC) interface
20/20 SEEDSENSE TAKES THE BLINDFOLD OFF, SO YOU SEE WHAT YOU’RE REALLY PLANTING

Easy to navigate, easy to see results.

20/20 SeedSense has everything you’d want to know about your planter’s performance on screen, and it’s easy to navigate with intuitive touch points. Find hidden mechanical problems and correct them at planting. Perfect your planter performance by adjusting meters, vacuum pressure, transmissions and speed. Improve productivity and measure and adjust down force.

Pair with Climate FieldView to take information from your 20/20 SeedSense and conveys it through instant, high-definition maps. It just makes sense.

NEW COOPERATIVE CARRIES A FULL LINE OF AG CAMERAS THAT CAN BE INTEGRATED WITH AG LEADER and TOPCON DISPLAYS

Choose from these Dakota Micro Products: Ag Cam Camera Systems, Overview and Overview Wireless Cameras, Ranch Hand Wireless and Innopro Camera Systems

1. AG CAM
   • 100% waterproof
   • Camera optics are able to function in highly dusty conditions
   • Able to withstand high vibration for long periods of time

2. OVERVIEW WIRELESS
   • Built-in, high quality CCD camera with high performance infrared (IR) illuminator modules
   • 2.8mm Camera lens provides 120 degree field of view

3. OVERVIEW
   • Watertight cameras
   • Automatic IR night vision gives you 45’+ of viewing in complete darkness
   • Unique bracket design allows camera to be mounted in ANY orientation field of view

4. RANCH HAND WIRELESS
   • Waterproof housing
   • Sealed against extremely high humidity
   • Allows for easy wireless upgrade to your AgCam system

5. INNOPRO
   • Ruggedized IP Camera Built in the U.S.A.
   • IP69 – Waterproof Under Pressure
   • Shockproof, Suitable for Nearly Any Use
   • Built-In, High Quality CCD Camera

Also available are third-party Camera Adapter Cables for the following Displays and Monitors:

JD 2630 Display, JD Command Center Adapter, JD 6R Command Center, CNH Intelliview Displays, Topcon X30, Trimble FMX, Trimble CFX 750, Ag Leader Integera, Ag Leader Versa, AGCO C1000 Monitor, AGCO C2000 Monitor and AGCO GTA Monitor
AES-35 Electric Steering

PRECISE STEERING CONTROL FOR ANY MACHINE

AES-35 is an advanced solution for all platforms—from basic steering to those striving for high-accuracy results. AES-35 is fully compatible with the Topcon AGI-4 and X Family of Consoles. AES-35 not only provides precise steering control, but is a superb alternative to common hydraulic steering systems.

With a quiet, high-torque motor, the AES-35 provides silent operation and the most accurate electric steering in the world. The AES-35 does not intrude into the operator’s working area, but simply replaces the steering wheel, and can be overridden simply by grasping the wheel and steering manually.

- Fast, accurate steering response
- Up to 2cm performance accuracy
- Full terrain compensation
- Reverse operation
- Convenient, simple installation

SRG-1 Receiver

BIG PERFORMANCE. SMALL PACKAGE.

This compact, rugged receiver provides simultaneous processing of GPS and GLONASS signals with 32-channel high speed, universal tracking. The SGR-1 features Topcon TruPass advanced positioning technology for higher, more stable pass-to-pass accuracies in dynamic ag applications. The SGR-1 also outputs ground speed as simulated radar for improved slow speed operations such as seeding and spraying.

HiPER V Receiver

VERSATILE GNSS RECEIVER FOR EVERYDAY FIELDWORK

The HiPER V boasts multiple communication methods using unique radio types for unique job sites as well as a fast internal cellular modem to perform MAGNET Relay sessions, turning your HiPER V into a mobile reference station.

- Capable of tracking GPS and GLONASS constellations
- Universal Tracking Channels capable of all-in-view tracking
- Signal scrubbing Fence Antenna® to provide signal lock
- Offers choice of UHF or Spread Spectrum radios, as well as an optional, internal cellular modem

AGI-4 Receiver/Controller

AGI-4 RECEIVER / STEERING CONTROLLER

The AGI-4’s all-in-one, modular design incorporates the antenna, receiver and steering controller in a single component, offering unmatched upgradeability. AGI-4’s steering system features state-of-the-art inertial sensors and full terrain compensation for superior line acquisition and holding capabilities.

The AGI-4 comes standard with WAAS and EGNOS, but is easily upgradeable to 2cm accuracy with RTK radio options. Like all Topcon receivers, the AGI-4 offers GNSS multi-constellation satellite reception standard for unmatched accuracy in dynamic applications and terrain conditions.
ONTRAC 3

THE ECONOMICAL WAY TO ADD ASSISTED STEERING TO YOUR OPERATION

- Quick, easy “Lock-n’-Roll” installation
- Easily transfer between vehicles
- Auto-calibration for simple vehicle tuning and calibration
- Gear driven motor
- New clutchless, brushless Mechanical Drive Unit
- Nine-axis terrain compensation
- LED diagnostic lights
- Easy to engage/disengage from the display
- Controlled by all current offering Ag Leader displays
- Custom install kits available on over 700 vehicles

GPS RECEIVERS

UNRIVALED GNSS TECHNOLOGY

- Differential corrections include GLIDE, WAAS/EGNOS
- GLONASS standard
- GLIDE offers improved accuracy without subscription-based differential correction
- Increased signal uptime provided by standard StableLoc™ technology
- LED diagnostics for at-a-glance system monitoring
- Integrated magnets and included mounting plate with locating pins provide repeatable mounting
- Sealed, compact, rugged design

GPS 6000

Single-frequency receiver designed for general mapping and AutoSwath functions with up to 10 Hz output.

GPS 6500

Fully scalable, rugged Smart Antenna, designed to meet the needs of extended RTK baselines in excess of 20 miles utilizing the Relay CDMA or Relay GSM via a NTRIP solution.

Differential corrections include GLIDE, WAAS/EGNOS, TerraStar and RTK (with Relay). Up to 20 Hz output.
NEW COOPERATIVE PRECISION AG  
PRODUCT GUIDE

CROPSPEC

CROP CANOPY SENSORS FOR NUTRIENT MAPPING
The use of crop sensing technology in cereal and grain crops is one of the fastest growing segments in precision farming. Topcon CropSpec crop canopy sensors work with either the X30 or X35 consoles to monitor in-field variability. CropSpec units mount on the cabin roof out of harm’s way, providing the largest sensor footprint in the industry, attaining more accuracy in application. CropSpec sensors measure plant reflectance to determine chlorophyll content, which correlates to nitrogen concentration in the leaf. This non-destructive, non-contact measurement method provides accurate, stable readings with repeatable values.

FLOW MEASUREMENT AND CONTROL ON-ROW
vApplyHD is the industry first, on-row liquid control product which incorporates flow measurement and control into a single device. Its row-by-row features include turn compensation, swath, automatic flow balancing, and variable rate prescription execution. The module is easy to install, simple to use, and designed with industry leading flexibility. The vApplyHD module is used, without modification, from the lowest pop-up rates on the planter to the highest sidedress rates, across the full range of speeds.

*For use with Precision Planting 20/20 Monitor.
360 SOILSCAN

DON’T GUESS HOW MUCH NITROGEN YOU HAVE LEFT IN YOUR SOIL – KNOW

360 SOILSCAN is a portable soil testing system that lets you accurately test nitrate nitrogen availability and soil pH right in your field, in about five minutes.

- Field-side soil nitrate and pH analysis
- Fast and accurate results
- Rugged case protects it from the elements
- Four sensor slots to allow for future innovations
- Easily transported and operated from the back of your truck or ATV
- Uses your iPad® as the operating platform and upgrades without new hardware

EASY TO TRACK FIELD INTELLIGENCE

360 YIELD PATROL® is the new 360 SOILSCAN companion app for iPad and iPhone®.

- Record and track soil samples using QR codes
- Store soil test data digitally
- Link information between 360 YIELD PATROL and 360 SOILSCAN
- Compatible with NORAC UC-5 Height Control

360 UNDER COVER

APPLY FUNGICIDES, INSECTICIDES AND NUTRIENTS UNDER THE CROP CANOPY

When plants aren’t healthy, nitrogen utilization can be limited and yields can suffer. With 360 UNDERCOVER, you can target your fungicide, insecticide and nutrient application where it’s needed most — under the crop canopy.

- Flexible fungicide, insecticide and nutrient applications
- Under-canopy application
- Targeted application

360 Y-DROP SIDEDRESS

Where you place nitrogen is just as important as when you place it. Upgrade your coulter bar with 360 Y-DROP Sidedress and get precise nitrogen placement well into V6 for more flexibility and bigger yields.

- Later-season nitrogen application
- Precision nitrogen placement
- Simple retrofit to existing coulter bar

360 Y-DROP STEERING & BOOM HEIGHT

Limited 2018 Release and Models available. Contact your NEW Cooperative Precision Ag Hardware Specialist for more information.
SUREDRIVE - Control your meter at the row.

True to Ag Leader’s traditional “color-blind” approach, SureDrive is built to install on most major planter brands on the market. Uniquely, the efficient, yet high torque electric drive motor isn’t tied to a specific brand or type of seed meter, including hard pulling finger meters, making it able to optimize the meter and planter you already have.

- Maintenance free
- Four cold forged, high-grade steel gears, precision bearings and a drive chain, all submersed in a full synthetic fluid bath
- Turn compensation

ADVANCED SEED MONITORING

SeedCommand offers complete planter monitoring functions, eliminating the need for an additional planter monitor.

View row-by-row performance in real-time on:

- Population
- Spacing quality
- Seed spacing
- Skips
- Doubles

SURE-VAC SHUT OFFS

Using GPS, Ag Leader’s SeedCommand or a compatible planter control system communicates with SureVac to turn planter sections on/off based on field maps and already-planted areas. The shutoff stops seed flow by cutting off the vacuum at the top of the seed disk. Planting is stopped and seeds fall back into the seed meter’s seed pool. When the shutoff device is pulled away from the seed disk, vacuum is restored and planting continues as normal.

SureVac is designed for John Deere Pro-Series™ XP row units, but is also compatible with any John Deere vacuum seed meter manufactured in the last 20 years.

HYDRAULIC DOWN FORCE

Ag Leader’s Hydraulic Down Force system adjusts pressure instantly in changing soil types without the inconsistency created by pneumatic systems that respond over a longer period of time. It could take an air bag system up to 20 seconds to inflate enough to create the proper down force, compared to one second with Ag Leader’s Hydraulic Down Force System. The difference? A quarter acre using a 24-row planter.

VARIABLE RATE CONTROL

Enables variable rate application by product for more efficient use of inputs. Variable rate allows the operator to utilize prescription maps for seeding and application rates, matching their seed and fertilizer inputs to attributes such as soil type.

PROVIDE A DESIRABLE TYPE OF TILLAGE

Martin row cleaner teeth continuously engage the soil to the shallow depth of 1” to 1 1/2”. The scarifying of the soil’s surface layer makes it easier for the seed openers to open a well-defined “V” but without furrowing out or causing slabbng or fleaking. Martin Row Cleaners come in two basic types: rigid and floating and offer 3/8” thick, high-strength, right- and left-toothed wheels with diamond shaped points and stationary triple-lip seals and heavy-gauge oval dust caps

LEVEL ROW AND SEAL AIR POCKETS

Following behind the Spading-Closing Wheels the Martin Till Twisted Drag Chain helps to further crumble and level the soil. This helps even out the rate of drying and insures the soil does not dry past seed depth. This is a low cost, low maintenance way to help increase uniform emergence in the drier parts of the field and is a must when using the spading closing wheels in minimum till.
**FERTILIZER SYSTEMS**

**COMPLETE LIQUID FERTILIZER PLANter KITS**

Keep liquid fertilizer off of your expensive machines!

- The 3/4” wide Fin made of UHMW plastic ensures long wear life and replaces the traditional 1” wide seed firming wheel. The narrower Fin provides more consistent seed depth. In moist or wet seeding conditions, it eliminates lifting of seed from the furrow by the rolling wheel.
- The Fin places liquid fertilizer at the deepest point of the furrow. Regardless if the Fin is brand new or worn to 50%, the patented design keeps the delivery point deep in the furrow.

**APOLLO**

Bring a new level of productivity and efficiency to your cereal grain seeding system. Apollo ECUs make the complex functionality of running an Air seeder easy through one-touch adjustments and easy to use controls.

Apollo features robust, stackable packaging with ISO capability for interfacing with your existing Tractor Universal terminal (UT).

**APPLICATION CONTROL FOR CEREAL GRAIN SEEDING SYSTEMS, MULTI PRODUCT VARIABLE RATE CAPABLE**

**360 BANDIT**

NEW for 2018 with limited release and is the 360 Bandit. Bandit is a Nitrogen system that can be placed on the closing system of the planter

**360 TANKS**

NEW for 2018 with limited release and is the 360 Tank. These are a 700 gallon tank system that mounts above the front tires on a tractor for use with Starter fertilizer or Nitrogen.

**vDRIVE**

**ROW BY ROW CONTROL**

vDrive is a custom planter on each row. Whatever you need and ask of that row happens. Period. Combine them with vSet meters and get amazingly precise population control through curves and ground speed changes.

**ROW FLOW CONTROL SYSTEM**

**PLANT FOR THE RIGHT POPULATION**

Each motor plants the population precisely by zone.

- Execute variable rate prescriptions
- Avoid overpopulation
- Compatible with eSet

**DELTA FORCE**

**BAD ROOT STRUCTURE IS A HIDDEN LOSS**

AirForce’s Big Brother with individual row control. From flat fields to varied terrains, and across all soil types, each row as unique control.

- Hyper-responsive hydraulics
- Two directions of control

**vDRIVE INSECTICIDE**

**COMPLETE THE CHAINLESS PLANter.**

vDrive Insecticide is the electric motor-driven insecticide meter that provides accurate delivery across your entire speed range. Row by row control for your insecticide delivery is now within reach.
**FURROW JET**

**FOR IDEAL STARTER PLACEMENT**

Precision Planting has developed a new planter fertilizer attachment called FurrowJet, which accurately places liquid fertilizer in ideal locations for nutrient absorption.

The attachment integrates dual-band near furrow 3/4” placement with optional third band in-furrow for maximum plant uptake, rate flexibility, and suited for a wide range of liquid product options.

- Designed for simplicity and flexibility
- FurrowJet’s placements give the seedling and crown roots immediate and continuous access to the nutrients

**vAPPLY HD**

**FLOW MEASUREMENT AND CONTROL ON-ROW**

vApplyHD is the industry first, on-row liquid control product which incorporates flow measurement and control into a single device. Its row-by-row features include turn compensation, swath, automatic flow balancing, and variable rate prescription execution. The module is easy to install, simple to use, and designed with industry leading flexibility. The vApplyHD module is used, without modification, from the lowest pop-up rates on the planter to the highest sidedress rates, across the full range of speeds.

*For use with Precision Planting 20/20 Monitor.

**AIR FORCE**

**INSTANTANEOUS AND AUTOMATIC INCREASE OR REDUCTION IN DOWN FORCE AS NEEDED**

AirForce continuously adjusts the applied down force to changing soil types by changing the pressure in your air bags as conditions and hopper weights change, so you maintain proper depth. It’s configured specifically for your planter.

- Correct seed depth and healthy root systems

**PRECISION PLANTING PREMIER DEALER**

A Precision Planting Premier Dealer is a world-class certified precision agriculture expert, with rigorous training and knowledge of the industry and issues facing you today. Our Premier Dealers are experienced professionals helping you know and yield more. A Premier Dealer is the only specialist that can offer the entire Precision Planting product line.

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**MECHANICAL PRODUCTS for PLANTING**

**eSET METER** It has a flat disk with a single vac setting, eliminating constant adjustments. The eSET Meter releases seeds down the center of the tube – critical to optimum spacing. Our standard model fits John Deere vacuum planters that use standard sized hoppers. Our John Deere ProSeries Meter model fits vacuum planters that have the mini-hopper used in planters with the central hopper, including the new MaxEmerge 5 planter. All components mount to your existing meter housing, simply.

**vSET METER** vSet has a relentless singulator for all kinds of seeds, plus it’s plug and play — just install and go. With vSet Select, you get all the performance of vSet, doubled. Multi-hybrid planting has a high ROI and is suddenly easy to do. See the future of meters in vSet Select.

**vAPPLY HD FLEX** Product to control Starter fertilizer rates to be more accurate.

**SPEED TUBE** Planting with SpeedTube enables accurate seed spacing at any speed

**CLEAN SWEEP** CleanSweep® does all that hard work for you. It puts row cleaners right where they need to be – where they move the residue but not the soil – and continuously adjusts them as field conditions change. All you need to do is move the cab-mounted controller.

**WAVE VISION** WaveVision sensors and seed tubes don’t depend on optics. They don’t see seeds, they detect mass, using high-frequency sensors. They can tell the difference between seeds and dust or debris, and count only the seeds.

**KEETON SEED FIRMERS** With its unique, in-the-trench design, the Keeton Seed Firmer is the only thing that gently firms those seeds to the bottom of the V. So the depth is even.

**FLOW SENSE** is a small flow meter that goes in the 1/4” or 3/8” hose that goes to your placement tubes.

**SMART FIRMER** is a seed firmer that will read row by row organic matter, soil moisture, furrow residue. (limited 2018 release)
DRILL CRUISER

FOR IDEAL STARTER PLACEMENT

- Unique combination of sidewall crumbling and soil firming
- Angular tooth design helps prevent clogging.
- Works in virtually all soil - from sandy to heavy and clay-based
- Provides improved seed slot closure in both conventional and no-till situations.
- Especially effective in saturated soil

FURROW CRUISER

FOR IDEAL STARTER PLACEMENT

- Allows young roots to penetrate sidewalls
- Fits into your existing closing wheel hubs
- Prevents furrow from re-opening
- Angular tooth design helps prevent clogging
- Built-in depth control allows for use with multiple crops
- Works in virtually all soil and tillage conditions

CLOSING WHEEL FRAME REPAIR KIT

This kit replaces the bushing on a closing wheel arm with a bearing. It can be used on brand new planters and on planters that already have some wear to the closing wheel arm. Having the closing wheel arms tight is critical to keeping closing wheels centered on the seed trench and ensuring that your closing wheel can operate at peak performance. If your arm is worn, you will need to weld a bearing housing on to the outside of the tailpiece to hold a ball bearing. If the closing wheel arm is new, this is not necessary and saves a lot of cost and work. We recommend updating every tailpiece as soon as you can.

If your planter is an early 7000 you should consider purchasing a new closing wheel frame. The curved tube that supports the closing wheel bearing shafts is very weak on these early frames. Any replacement frame will have a stronger tube. Please specify model of planter so that the correct kit is sent!

Price is per tailpiece (2 bearings/bushings included)

GAUGE WHEEL ARM REPAIR KIT

The gauge wheel arm pivot is the #1 wear point on Max Emerge style planters. This is caused by the fact that the ground load on the gauge wheel is offset from the center of the row where the arm contacts the adjustable stop. This offset load is supported by two points of contact between the pivot pin and the bore of the hub. These points wear and the arm starts to lean allowing the tire to pull away from the opener disk. Moving the arm in is generally the only thing you can do to temporarily compensate.

This repair kit is different from all other kits on the market, because it supports the offset load in a different way and actually solves the problem. The RKP design utilizes a disc spring to preload the outer end of the hub of the arm with enough spring pressure that the arm cannot lean but can pivot freely. Because the arm cannot lean the pressure remains distributed almost uniformly around the circle of contact which is a large area. The result is that wear is practically eliminated.

GAUGE WHEEL MUD SCRAPER

This scraper blade is available for each of the three main guage wheel tire profiles. The blades are made from 3/16 heat treated steel and are mounted at about a 45 degree angle to the wheel. This allows the scraper to deflect mud outwards, away from the furrow and closing wheels. When the gauge wheel is free of mud and debris, it enables the disc openers to run at a consistent depth, enhancing consistent seed depth and spacing. Please specify planter make and tire profile, so that the correct mounting arm and scraper will be shipped. All pricing is per row (pair of scrapers).
YIELD MONITOR SOLUTION FOR INSTANT CROP YIELD AND MOISTURE DATA

Ag Leader provides the most widely used grain yield monitoring technology in the world. Create and view yield and moisture maps while harvesting and instantly observe how field conditions affect yield. Make year-round management decisions based on this valuable information. Yield Monitoring Products from AgLeader consist of: SMS Software, Displays, GPS Receivers and Guidance and Steering.

YIELD MONITOR SOLUTION FOR INSTANT CROP YIELD AND MOISTURE DATA

Add field-proven yield monitoring technology to your combine. YieldTrakk gives you higher accuracy yield and moisture monitoring with mapping. Capturing and recording today's yield and moisture data enables better management to maximize your yields, productivity, and profits. YieldTrakk works on virtually any combine and is easy to install, use, and calibrate.

REDUCE HEADER LOSS

Traditional corn heads have gaps in the deck plates and gathering chains that result in corn kernels falling right through. 360 YIELD SAVER eliminates those gaps by adding intermeshing bristles to traditional gathering chains to capture significantly more kernels.

- Mounts easily on corn heads
- Provides a similar wear life to other gathering chains
- Chain includes crop lugs to improve stalk feeding
- 360 YIELD SAVER blocks easily attach to chain
- Replace blocks when they wear out
- Chain wear life similar to conventional chains
- Block life expected to be one to one and a half seasons

ENGINEERED FOR PERFORMANCE

Create the right environment for soil microbes and nitrogen availability with a new approach to residue management. 360 CHAINROLL chops and crimps stalks, making residue more available to microbial breakdown for better soil health and nutrient availability.

- Precision cutting, sizing and residue management
- Directly replace old stalk rolls

360 BULLET

Most rippers do a good job of leaving the surface smooth and level. But what about the soil underneath? With 360 BULLET, you can fracture the complete soil profile, eliminating subsurface berms left by other ripper points for better root penetration and access to nutrients.
THE MOST ADVANCED HEADER CONTROL SYSTEM

Headsight’s Horizon Controller provides superior header height performance, reliability and integrated header features to the in-cab virtual terminal interface. Advanced features include automatic calibration, in-cab monitoring and control of header functions for many leading aftermarket header companies, the PinPoint® diagnostic system to continuously monitor wiring and sensors, the ability to support up to 7 height sensors, and standard Headsight features.

PRECISION OPTION FOR CORN HEADER CONTROL

Foresight is an innovative header control system that compensates for snout movement - using ordinary height sensors to get extra-ordinary results.

- Improves header control near the ground
- Increases harvestable yield in down corn
- Adds protection for chopping heads
- Allows faster harvest speeds

Foresight comes standard on the Headsight Horizon Controller, and is a upgrade option available on the Headsight Insight controller.

MAKE SENSE OF YOUR YIELD DATA AND MAKE BETTER DECISIONS FOR YOUR OPERATION

You can capture and analyze your field's performance by management zones. Then plan for next season with your harvest data integrated with your planting solution.

- Measure flow in the right place
- Forget recalibrations
- Consistent paddle shape
RANGE POINT RTX

Affordable, broad accuracy correction service built on Trimble’s exclusive RTX technology, providing < 50 cm repeatable accuracy via satellite or cellular delivery worldwide. Agriculture customers can achieve 15 cm (6") pass to pass accuracy.

CENTER POINT RTX

CenterPoint® RTX, Trimble RTX’s premier correction service, provides accuracy better than 4 cm (1.5") via satellite or cellular. No other satellite delivered correction service performs better.

Achieve greater productivity in the field when planting, spraying or spreading. High accuracy, Trimble CenterPoint RTX, can reduce overlap by 90% - 95%.

RANGEPOINT & CENTER POINT RTX FEATURES

- Ideal for broadacre applications like spraying, spreading and cultivation
- Quick Initialization to full accuracy in less than 5 minutes
- Multi-constellation support: GPS, GLONASS and QZSS enabled
- More uptime: Continue working through correction signal interruptions for up to 200 seconds
- No base station required: No need to worry about losing radio signal reception since a base station is not needed for Trimble RTX-based correction services

VRS NOW

VRS Now™ provides instant access to real-time kinematic (RTK) corrections utilizing a network of permanent (fixed) continuously operating reference stations.

- High Accuracy: Provides < 2 cm (1") accuracy
- Ideal for a variety of industries needing high precision including survey and construction, mapping and GIS, cadastral, utilities, transportation and areas having good cellular coverage
- Instant Initialization: Start working immediately under optimal conditions
- Multi-constellation support: GPS and GLONASS enabled
- More uptime: Built-in redundancy to ensure connectivity, consistency and quality
- No base station required: No need to worry about losing radio signal reception since a base station is not needed for Trimble VRS Now based correction services
OmniSTAR provides differential GPS and GNSS services through a worldwide satellite service, making it easily available and very reliable. The use of real-time satellite correction services optimizes the capabilities of your GPS or GNSS receiver to ensure reliable, precise and accurate global coverage.

Ideal applications include:
- Planting
- Automated Steering
- Seeding
- Yield Monitoring
- Farm Mapping
- Soil Sampling
- Variable Rate Applications
- Spraying
- Harvesting
- Aerial Applications
- Yield Mapping

TerraStar precise positioning in agriculture can minimize costs and maximize yields through improvements in operational efficiency. Embedded into cost effective compatible receivers, TerraStar provides decimetric accuracies at high update rates for planting, spraying, yield mapping, soil sampling, crop walking, vehicle guidance, and farm asset management.

The range of modern sensors and technology now available to farmers requires precise positioning to achieve optimum performance and to gain the greatest operational benefits. Spraying is a typical application where high quality positioning helps prevent skip and overlap with accurate guidance and the ability to selectively activate sprayheads, allowing correctly targeted variable rate application, all contributing to better profitability with lower inputs and less environmental impact.

TerraStar capabilities are embedded into several compatible GNSS manufacturer’s receivers, directly providing decimetric and metric positioning accuracies for agriculture applications.

Beacon v3.0

FARM BUILT. FARM TESTED. FARM READY FOR YOUR FIELDS

Seamlessly stream RTK data into any receiver (including John Deere SF3000) without the need for cables. Simply plug the Beacon v3.0 into your receiver, program your login information into the DigiFarm app on your tablet, and hit connect. Within seconds you will be streaming RTK data directly to your receiver. It’s that simple!

The Beacon v3.0 is a ruggedized device that enables a wireless Bluetooth connection between GPS/GNSS receiver and a Bluetooth enabled tablet. The DigiFarm NTRIP app supports the iPad, Android and Windows devices. This bridge allows RTK corrections to be passed through the smart device, eliminating the need for additional data plans, radios, or costly RTK base stations.

ADVANTAGES
- Use a device that you already own and may already be paying a data plan
- No need to purchase expensive radios or base stations
- Cost effective
- Very fast installation

KEY FEATURES
- Stream RTK through iPad using NTRIP app
- Class 1 Bluetooth device
- No cables for Trimble devices
- Adapter cables for all other brands
- Ruggedized and weather resistant
- Also works with Android and Windows devices

The Beacon v3.0 is the industry’s first and ONLY Bluetooth device to be MFi (Apple) certified to stream RTK data using a cellular-capable iPad to all major brands of GPS rovers. Because it’s certified by Apple, we are able to use high power class 1 Bluetooth to optimize communication performance between the Beacon and iPad. Devices that haven’t been through this certification run the risk of limited bandwidth, interrupted data flow, and reduced operating range.
EASY TO USE, HANDS FREE, HARVEST TRACKING SYSTEM

The GT-560 is a precision weighing and management systems specifically designed for grain cart harvesting applications.

- Compare individual fields, soil types, seed hybrids, fertilizer types, tillage equipment and methods
- Know the exact weight of grain going into and coming out of on-farm storage
- Measure crop damage for insurance documentation
- Can be calibrated to “Elevator Scales” when need for maximum accuracy
- Weighing in the field vs. hauling to a platform scale

AUTOMATED SEED WEIGHING SYSTEM

SeedTracker measures seed used between farms and partnerships and allows you to manage multiple farms with downloadable information.

- Preset weights with pre-programmable auto shut-off
- Accurately know weight of remaining seed in bins
- “FIELD” button for viewing and changing the 6 character alphanumeric data field
- Accumulation of weights per field entry, scale always resets to the last preset entered weight for each hopper load
- Seed Tender Navigational keypad to review previous loads or edit field information

SPREADER SCALE SOLUTIONS

No need to remember to push the Start/Stop button when unloading your spreader. The NT-460 features AutoLog, and it is done automatically, no matter who is operating your spreader.

- Indicator displays actual tons/acre
- View and react to tons/acre reading by speeding up or slowing down
- View and change the 26 character field name and the 6 character ID
- Software to create custom reports
- Calculating the nutrient value of your manure is easy with scales on your spreader
- Nutrient Tracker software for simple record keeping

DIGISTAR FEED MANAGEMENT

TMR TRACKER A full-featured Windows® based feed management system that offers operators additional management tools including: operator control, pen review, online feed data exchange with nutritionists, ingredient tracking and numerous reports.

MOISTURE TRACKER The Moisture Tracker is a hand-held, Near-Infra-Red (NIR) scanning device, which rapidly measures the dry matter. It provides livestock producers with near instantaneous, accurate dry matter and moisture readings which enable livestock producers to quickly react to changes in dry matter thus ensuring that the ration delivered matches the ration calculated.

BEEF TRACKER Beef Tracker works in conjunction with the scales on your feed mixer wagon/truck and allows you to accurately and easily collect and manage feedlot nutrition.

FEED MIXER SCALES Scale indicators for animal feeding.

RF DATALINK RF DataLink software automatically manages the transfer of Cattle Feeding your feeding information and the RF DataLink software continuously looks for pen-fed data and feeding vehicle readiness to receive the next ration and/or pen feeding information.
NEW COOPERATIVE PRECISION AG
PRODUCT GUIDE

SMS

PLANT, MANAGE, PROFIT
We understand that smart management decisions are a must in your precision farming operation. And, because you may have data from different systems and sources, we aim to support as many data types as possible.

SOLUTIONS FOR ALL SEASONS
- Field Stewardship
- Planting
- Application
- Harvest

SMS BASIC
SMS Basic helps you to take data from your field and turn it into smart management decisions, using information gathered from planting through harvest. In a grower/consultant relationship, SMS Basic works in conjunction with SMS Advanced providing even more sophisticated and powerful analysis.

SMS ADVANCED
SMS Advanced assists you in managing information across many acres, fields and operations. It’s ideal for farmers looking for more sophisticated analysis tools and consultants who are working with multiple clients. It includes all of the features of SMS Basic, plus additional tools and features designed to make analysis across multiple fields and operations easy.

SMS MOBILE
SMS Mobile allows you to collect in-field information such as crop-scouting, soil sampling, boundaries and more. It offers flexibility to work with most desktop software solutions, as well as syncing seamlessly with SMS Basic and Advanced. Information gathered from SMS Mobile can provide the extra detail needed to make critical management decisions.

AGFINITI
CONNECT YOUR WHOLE OPERATION
Seamlessly access your maps and reports from any mobile device without having to learn a dedicated farm management software. Your maps and reports are available with or without an internet connection, and without any complicated processes. Simply open the AgFiniti cloud based portal or the AgFiniti Mobile app and have access to your information! AgFiniti. Your data, when and where you need it.

INTELLISLOPE
Ag Leader’s Intellislope® simplifies the process of installing field drainage tile by using an RTK GPS receiver to install tile with a positive grade through the entire run. This eliminates the need for laser surveying equipment, which can be subject to weather conditions, and adjustments to keep the plow on grade in changing topography.
Sentera drone sensors deliver unrivaled performance and consistently beat competitors in price, quality and function. Our sensors produce high-quality, context-rich color and near-infrared image data to deliver unsurpassed NDVI data to growers. Our state-of-the-art design and deep base of field experience enable us to produce sensors that deliver meaningful and actionable insights to our customers.

THE SENTERA SINGLE (NDVI)
An elegantly engineered drone sensor, specifically designed to monitor crop health through NIR / NDVI data collection. The Sentera Single Sensor is unmatched in its performance due to its global shutter, tiny size and light weight. It’s the world’s best tool for farmers to collect NDVI data.

THE SENTERA DOUBLE 4K
In agriculture, the Sentera Double 4K allows for both NDVI and RGB imagery in a single flight. In inspection applications, the cameras may be configured with narrow and wide field-of-view lenses.

SPARK
SMART, RELIABLE, AND INCREDIBLY INTUITIVE
Meet Spark, a mini drone that features all of DJI’s signature technologies, allowing you to seize the moment whenever you feel inspired. With intelligent flight control options, a mechanical gimbal, and a camera with incredible image quality, Spark empowers you to push your creative boundaries.

• Quick Launch
• Simple Control
• Shake-Free Shots with Spark’s 2-axis mechanical gimbal and UltraSmooth technology
• Powerful Lens
• Spark’s camera features a 1/2.3 inch CMOS sensor, allowing you to shoot stabilized video at 1080p and stills at 12 MP
• 50 kph Powerful Propulsion
• 2km HD Wi-Fi Video Transmission
• 16 min Max Flight Time

MATRICE 200
BUILT TO ENDURE. ENGINEERED TO ADAPT.
High-performance motors paired with 17-inch propellers ensure stable flight in strong winds. The new dual-battery power system automatically heats batteries when flying in sub-zero temperatures, while an enclosed design ensures weather and water resistance, so you can fly in a wide range of environments.

• The M200 Series drones fold down in a snap and unfold just as quickly
• Gimbal mounting plates and aircraft arms stay mounted during transportation so that you’re ready to fly within minutes
• Size: 28” x 8.65” x 9.3”  8.4 lbs.
• IP43 Ingress Protection
• 7km Operating Range
• 38 min Max Flight Time
• 2 KG Max Payload Capacity
• *AVAILABLE ONLY THROUGH AUTHORIZED DJI DEALERS.
The DJI Drones come with manufacturer’s camera as listed. NEW Cooperative Precision Ag offers Sentera Sensors for agricultural imagery. Contact one of our professionals to determine which systems are right for your applications. NEW Cooperative is an authorized DJI Drone Dealer.

### MAVIC PROFESSIONAL
**PORTABLE YET POWERFUL**
The Mavic Pro is your personal drone, ready to go with you everywhere. It’s compact size hides a high degree of complexity that makes it one of DJIs most sophisticated flying cameras ever.
- 27 minutes flight time
- 4.3 miles control range
- Speed of 65 km/h
- 3 axis gimbal
- 4K video resolution
- 12mp camera resolution
- Operating temperature 41° to 104° F

### INSPIRE 2
**POWER BEYOND IMAGINATION**
The Inspire 2 takes everything that is good about the Inspire 1 and improves it.
- 27.7 minutes flight time
- 4.3 miles control range
- Speed of 67 mph
- 360° rotating gimbal
- 5.4-4K video resolution
- Live View 1080p
- Sensory range of 30 miles
- Dual battery system for prolonged life
- Magnesium aluminum composite shell
- Detects obstacles up to 30 meters ahead
- Operating temperature -4° to 104° F

### PHANTOM 4 ADVANCED
**VISIONARY INTELLIGENCE**
Revolutionary materials and enhanced agility with multiple flight modes.
- Precision hovering
- 3 axis stabilization gimbal
- 4k video
- 12.4 mp camera
- Live HD view
- Intelligent flight system
- Powerful mobile app
- Worry-free auto pilot
- Four pairs of propellers
- Max flight time 28 min.
- Front optical sensors
- 3.1 miles control range
- Operating temperature 32° to 104° F

### THE SENTERA QUAD
The Sentera Quad Sensor is the latest in precision agriculture drone cameras. With its ability to see three specific bands of light + capture full RGB photography, the Quad can measure key indicators of nitrogen + chlorophyll in crops. The intelligence provided by this sensor will revolutionize how growers plant and fertilize their crops.

### THE EO / IR
Proven in the harshest environments, the EO/IR drone camera payloads set a new standard in drone-delivered HD and thermal infrared video. Fully gimbal-stabilized, these drone cameras provide rock-steady live video from above, day or night.

### THE SENTERA Q
The Sentera Q Sensor provides highly accurate aerial imagery and data in a single pass, making it the ideal sensor solution for surveying, mapping and surveillance operations.
DATA MANAGEMENT

USE OF YOUR DATA COLLECTED IN THE FIELD FOR RECOMMENDATIONS

SOILMAP Data Management allows producers the ability to enhance their decision making through complete understanding of their fields by compiling and analyzing multiple years worth of field data. Data Management users able to combine planting data and yield data as well as soil sample analysis information to create fertility recommendations or planting scripts as well as generate reports such as Yield by Variety by Soil Type by N applied across a single field or farms. Yield by hybrid is a starting place for a conversation with a grower but when using SOILMAP DM you can provide more in-depth reports such as Yield by Hybrid, by Soil Type, by Test Value, by Seed Trait, by Population, by Rainfall and by N applied.

- Create seed recommendations
- Create fertility recommendations
- Create management zones
- Used previous yield data to create recommendations
- Perform advanced analysis reports
  - Field planting reports
  - Field harvest reports
  - Benchmark reports
AGRONOMY DECISIONS
The next step in the NEW Cooperative in the Precision Ag program is developing site-specific nutrient recommendations based on sound agronomic principles. A professional agronomy staff, with practical experience, is key to gaining quality solutions. NEW Cooperative’s methods for managing fertility have been field-tested for over a decade, and each recommendation and decision is customized for your individual grower needs.

Field soil results and staff will assist with commodity and hybrid selection, along with correct fertilizer applications in the spring; followed by fertilizer and tillage practice recommendations through the summer and fall.

SERVICE & SUPPORT
The most important piece of any agronomic tool is also the most commonly overlooked by other providers. However, the NEW Cooperative Precision Ag team has made it their commitment to see that our customers receive the total precision package.

Along with professional soil sampling, data software, numerous hardware products, and accompanied by efficient applications options, the NEW Cooperative team offers Professional Consulting Services.

Our consultants can help guide your precision needs and grow your business and improve your work flow processes and accountability.

APPLICATION & OPERATION
Once all the data is collected, recommendations are made and hardware is purchased, it is the actual application that determines the outcome of NEW Cooperative tools and solutions.

You will achieve input efficiency through options in variable rate application of fertilizers and other nutrient inputs, along with controlled planting operations to ensure that time and money are not wasted.

Coupled with guidance and steering tools, you will see a positive change in the fuel consumption, machine hours, labor and input costs, and in the amount of skip and overlap, in comparison to your previous operations.
Contact one of these Hardware Specialist for more information.

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AUTHORIZED DEALER FOR THE FOLLOWING:

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PUT the POWER of FARMING in YOUR HANDS!