THE AB LINE

The indepth magazine from RVT Precision Farming

Spring/Summer 2017

In this issue

RVT LEADERS IN OUR FIELD
Rea Valley Tractors
PRECISION FARMING

About Us

RVT's dedicated Precision Farming department has grown out of a desire to support customers and users of our market leading precision farming technologies; by getting the maximum return on their investment in a rapidly changing world of agricultural technology.

We are not driven purely by sales alone. We are driven by a desire to provide the correct equipment for each and every situation, a desire to carry out professional installations, a desire to make sure users have full instruction in using equipment to its maximum advantage, and being there to support the equipment throughout its entire life cycle.

Although work is shared between the team it's not unusual to have the same team member sell, support and service a customer's equipment; and this we believe is a mark of the true specialists in which we pride ourselves. The biggest satisfaction we get is in seeing our technologies exceed our customer's expectations: this is truly what drives us.

RVT Precision Farming was set up as its own unique department within Rea Valley Tractors in order to provide a true specialist service to our customers. It also enables the members of the team to have complete focus and be in daily contact with the constantly changing world of precision farming technology and agronomic practices.

We work with our customers to:

- **Ensure the right technology is purchased and put in place, with scrutinisation of what exactly a user is looking to achieve**
- **Consider future upgrade options in order to future proof any investment**
- **Look at any annual running costs and select the most cost effective options**
- **Consider other equipment owned by a user where GPS equipment could be shared to maximise on usage and efficiency gains**
- **Professional installation and calibration of any chosen equipment**
- **Clear and concise instruction in the practical use of equipment**
- **Ongoing support and recommendations for continued best use of equipment**
- **Rapid resolution of problems whether caused by set-up issues, hardware issues or site specific applications. We are able to load equipment to keep customers working if required**

Chris Jacques

Chris's interest and involvement in agriculture and machinery started from an early age.

He studied a NDA at Reaseheath College after leaving school and went on to take a position as lead tractor driver/farm mechanic. He progressed to overall management and day to day running and maintenance of the machinery fleet.

After a reorganisation of his employers farming activities he then took a full time technician position at a local John Deere dealership, where an aptitude for electronics and modern day farming technology soon became apparent.

It was here he took the lead on emerging GPS technologies and was nominated to enter John Deere's annual technician of the year challenge; the Rose Award, where he achieved the Silver runners up award. Following this and the launch of the LTA scheme, he then became one of the first technician's in the UK to be awarded Level 3 diagnostic technician status. He went on to achieve the LTA level 4 Master Technician award – a four day test at JD's Langar training facility. Chris recalls how difficult the challenge was "I'm sure it would've been easier to join the SAS!"

Wanting to specialise further in Precision Farming technologies and progress his chosen career, he joined RVT in 2012 and put his AMS Service & AMS Sales specialist

CHRIS JACQUES SPECIALIST SUBJECTS

- **Sprayers**
- **AMS**
- **Technical Installations**
- **Sales**

The True Specialists

training & qualifications to work.

"During my time at RVT we have seen Precision Farming technology and its use increase ten fold and become an essential part of everyday farming life.

In order for RVT to support this growing trend, I am proud to head up RVT's Precision Farming team which has grown to three members who are true specialists" commented Chris.

Chris is the Group's Precision Farming Manager and is responsible for the day to day running of the team. He can be contacted on 07805 871984

Tommy Adams

With both of his parents coming from farming backgrounds Tommy has always had farming in the blood. His first involvement in farming came milking cows at weekends whilst at school.

In 2002 Tommy started at Harper Adams studying degree level Agri-Food Marketing and Business Studies. After finishing university he went on to work at a large scale forward thinking family farm who were keen adopters of technology around the early days of Autotrac. The same farm is now supported by RVT and will be the first UK customer of John Deere's latest i-manure technology.

Tommy has always had a passion for combines and during the winter of 2012/13 he travelled to Australia to help out with harvest. As part of his role at RVT Tommy is training to become a Combine Specialist, after successfully achieving AMS Specialism in 2016.

Tommy has massive operational experience with Gatekeeper, processing and collecting yield and application maps and documentation data for farm assurance. He was one of the first users of section control with spreaders and sprayers, variable rate applications and map processing and ISOBUS technology. His family nickname is Mr Greenstar.

He is also a CAA qualified Drone pilot and holds PA1 and PA2 spraying qualifications.

Tommy is one of RVT's Group Precision Farming Specialist and can be contacted on 07794 345471

TOMMY ADAMS SPECIALIST SUBJECTS

- Data Management
- UAV's
- Combine Harvesters
- Operational Support

Adam Cooper

Adam Cooper is the latest addition to our Precision Farming team. Adam started out his career in agriculture working for a local agricultural engineer at the age of 14. After deciding this was the career he wanted to pursue, he attended Reaseheath College where he studied Land Based Technology.

Once he finished at Reaseheath, Adam secured a job at his local John Deere dealer as an apprentice

mechanic. After two successful years he moved to RVT as a Service Technician.

The four years Adam was in the workshop at RVT he attended a total of 23 training courses at John Deere's training facility in Langar, and became specialized in SPFH's and AMS. After 6 years, Adam moved over to the Precision Farming department as Service Support Technician. Adams role within the department is predominately to look after the technical and installation side of the kit we provide, along with the day to day duties of sales and training.

Adam is one of RVT's Group Precision Farming Specialists and can be contacted on 07831 462287

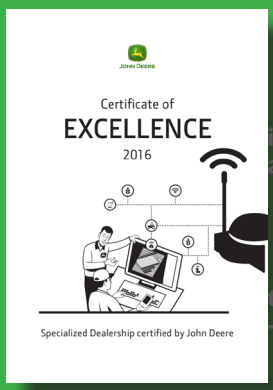
ADAM COOPER SPECIALIST SUBJECTS

- Self Propelled Forage Harvesters
- Technical support
- Installations

CERTIFICATE OF EXCELLENCE

The RVT Precision Farming Team were delighted to be awarded the John Deere Certificate of Excellence 2016, in recognition of becoming specialist FarmSight dealer.

John Deere has witnessed a significant growth in Rea Valley Tractors advanced services in Precision Farming support their advancing technology we are one of only a handful of dealers in the UK and Ireland to win this award.



Technology Today

Technology and Agriculture

In 2012 John Deere released a "Farm Forward" video focusing on what they believed the future was going to look like. It was packed full of features which we all thought at the time weren't possible in this decade. But in reality it's all come together faster than we ever thought possible.

Where did it start?

Back in the Nineties, the focus was all about signal.

In 1992, GPS was accurate to within a few metres - good enough at the time for yield mapping. In 1994 after seeing the potential in the system, John Deere created its own Precision Farming Group to look at evolving technologies and to make GPS more accurate. In 1998 the company first offered satellite based GPS signals with 1-2 meter accuracy. By 2004 accuracy had reduced to 10cm using the SF2 based signal.

The latest offering from John Deere, StarFire 6000 running with RTK, has meant accuracy is down to 2cm, the speed of acquisition is almost instant and 14 days of 2cm accuracy is provided even if RTK signal is lost.

By offering this level of technology you could ask the question - can we, and do we need to get more accurate?

In turn it has meant the focus has moved from signal to other areas of technology such as connectivity and automation to improve overall efficiency.

There has been a lot of talk around driverless tractors but there seems to be a shift towards more automation giving you less to do in the cab.

The iTec pro feature has been around since 2009 and only recently has started to get popular.

Active Implement Guidance where the implements steers to the guidance line is becoming increasingly popular.

Remote Display Access is now cheaper and more available in the market today, saving on time and reducing downtime because a technician doesn't have to see you on farm. Something to consider when buying a new machine.

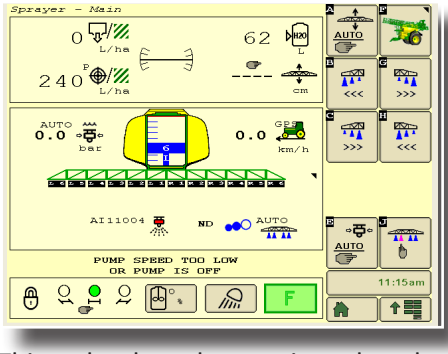
As this technology becomes more mainstream, farmer's reliance on it increases, and being able to provide local support for this is what RVT prides themselves on.

Autotrac

Autotrac been around for nearly 20 years, virtually all John Deere tractors over the 170hp bracket now have Autotrac as a base option. There were many people who were sceptical about Autotrac to begin with but as soon as they adopted it there was no going back.

Section Control

Section Control has traditionally been associated with sprayers controlling individual boom sections automatically. It soon became apparent that saving could be made from the technology. Section size is decreasing giving the upmost precise applications.



This technology then got introduced to fertiliser spreaders where on average it saves around 5% of fertiliser costs and should reduce lodging due to not over applying.

Can we, and do we need to get more accurate?!

Today, drills are making use of section control; maize planters have got individual control of each row unit, dramatically reducing overlap. Other drills have the ability to turn on or off, either as a whole or split into metre sections.

Another feature of Section Control is the ability to use a virtual headland, a set distance away from the boundary which is used for the sections to turn on and off. This means the middle of the field can be drilled first and the headlands last.

Setup of section control is crucial in order for it to work effectively. The operator needs to fine tune the setting so that sections start and stop at the right point. Please do not hesitate to give us a call if you are unsure of any setting.

Variable Rate Applications

Variable Rate technology is becoming more adopted in today's farming world. The 2630 display comes ready for variable rate without the need for additional activations.

Premium Activation is now available for the Gen 4 display.

Cost Effective Grassland Management

For people wanting a no fuss, easy to use display for parallel tracking or mapping fields, the Ag Leader Compass display is for you. The 7-inch touchscreen is an entry level display, not only for guidance but can be upgraded to a universal terminal for ISOBUS machines. The Compass display is designed for easy setup and operation allowing you to simply create a new event and get to work.

Crop Sensors

With increased variability across fields and farms, from adverse weather conditions or different nutrient content of manure applied, there is more emphasis on using fertiliser more efficiently. Crop sensors are starting to generate more interest with this in mind. Some people think this technology reduces the amount of fertiliser applied across the field but in reality it doesn't necessarily use less but applies more where it needs it and less where it doesn't.

Ag Leader's OptRx Crop Sensor measures and records data about crop health in real-time, the sensor shines a light on the crop, the reflected light off the crop canopy is then used to determine the vigor of

the plant more commonly known as the Vegetative Index (VI). From this VI reading the OptRx will prescribe a rate from a customised table, setup by the operator.

In comparison the Isaria Crop Sensor contains advanced algorithms developed over several years, whereby you input the specific growth stage of the crop and target yield which the sensor uses to determine how much Nitrogen should be applied.

From what we have seen, both deliver good results and the Isaria is available for demonstration from RVT.

Field Connect

Field Connect is relatively old technology, but it is only in the last two years we are seeing any interest in this system.

It comprises of an in-field, solar powered gateway that connects to various monitoring sensors such as ground moisture probes from 0.5m-1.5m deep, ground

temperature sensor, rain gauge and UV sensors.
The real time information is gathered and sent wirelessly back to your computer where you can make informed decisions on irrigation and planting strategies.

Drones

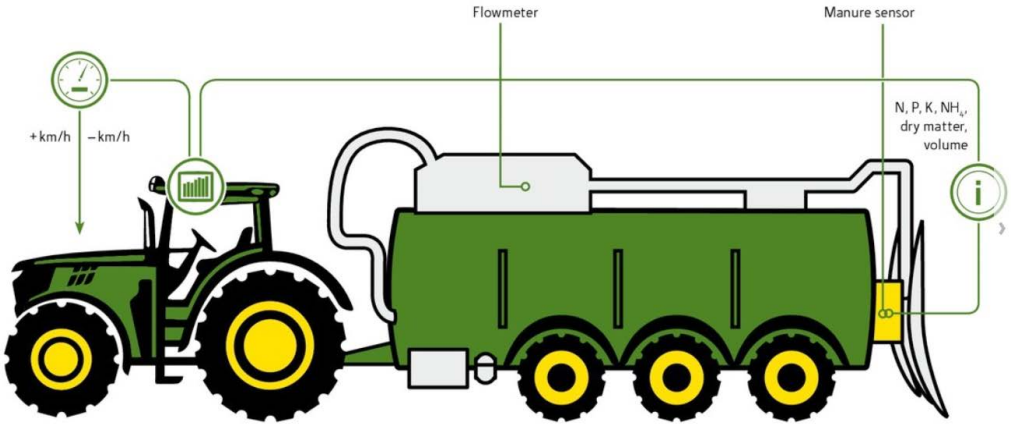
Drones are becoming an increasingly talked about topic in our industry. They make a very good crop walking tool; an aerial perspective gives a more insightful view than a normal field view. But the challenge in the industry today is being able to make productive, efficient decisions based on the data they gather.

We perceive drones to be another "decision making" tool helping growers make timely decisions, whether this be fertiliser applications or chemical recommendations. The Unmanned Aerial Vehicle (UAV) may highlight specific areas where action may be required, but this needs to be coupled with the growers own knowledge of the land to really

understand why.

At the start of 2015, Sentera, a UAV company, partnered with John Deere to become a production partner for the MyJohnDeere Operations Centre. This means that UAV images can be imported into the Field Analyser tab for visual reference or can be used to make Variable Rate prescriptions.

These images can then be used to show the performance of the crops through the season and then directly compared to the yield maps from the combine/forage harvester.



I MANURE

I-manure, or manure sensing as it can be known, is John Deere's latest advancement of their proven Harvest Lab sensor commonly found on their range of SPFH's. The sensor will take real time measurement of dry matter, nitrogen, phosphorus, potassium and ammonium whilst being applied, with over 4000 measurements per second.

With focus being put evermore on what we put on our fields and how much, John Deere's latest innovation helps to achieve these goals.

With the power of knowing exactly what's coming out of the back of your tanker or being pumped through your umbilical system, you can apply the slurry on a nutrient based target rate (kg/ha), either by a set rate or by a variable rate prescription map.

The application rate is adjusted primarily on forward speed, either manually by the operator, or if using a John Deere 6R, 7R or 8R with AutoPowr or e23, the forward speed will be adjusted automatically!

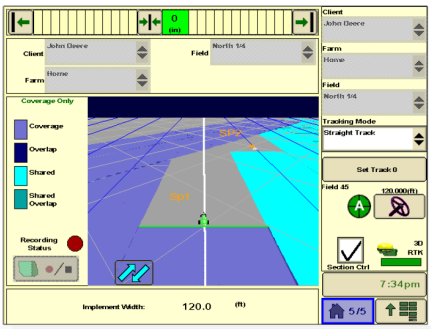
Once the forward speed can no longer be adjusted to meet the target rate, a flow control valve can be fitted to further adjust the target rate to ensure it will be achieved.

The system is certified to work on pig and cattle slurry and digestate.

RVT sold the UK's first Manure Sensing outfit to a local customer, in late 2016. We will have reports on how this system is running in our next issue of the AB Line magazine.

MACHINE INTEGRATION

Machine to machine integration is becoming the latest craze within the technology departments of machinery manufacturers. We saw John Deere realise Machine Sync for its combines a few years ago, which allows the combine to take control of the grain carting tractor for more accurate unloading on the go.



We have recently seen the addition of 'AB Line' and coverage sharing between two machines working within the same field. 2017 will see the introduction of MyJobsConnect and Active Fill Control Sync.

My Jobs Connect will allow SPFH or combine operators and their trailer drivers to view locations of each other and the clamp whilst working in the field via an app on their mobile phone.

Active Fill Control Sync joins Active Fill system on SPFH's that we have seen for a few years, with the Machine Sync being used on combine harvesters for complete machine integration. It will amalgamate machine and spout control to ensure complete trailer fill without a drop being spilt.

INTELLISLOPE

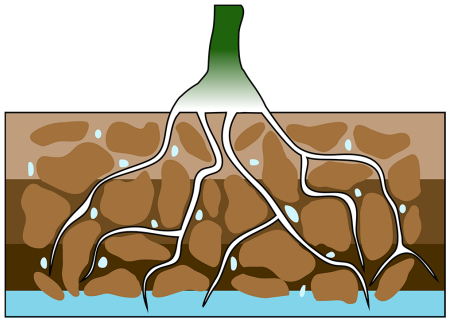
Back to the basics.... with all the new technology surrounding us within Precision Farming, it is sometimes hard to remember the fundamentals of growing good crops. One of these fundamentals is having the correct, well-drained seed bed.

"Remen fundame growin cro

In 2016 we teamed our two available brands of precision farming equipment to install GPS grade control onto a Mastenbroek trencher drainer (pictured below).

We coupled a John Deere SF3000 running on RVT RTK together with a AgLeader InCommand 1200, and using AgLeader's Intellislope program we are able to control the installation point of drainage pipe to ensure a positive grade throughout the entire run.

The Intellislope program can install drains in two different ways. The first is to survey the field with the GPS receiver and InCommand using



a quad bike or pickup truck. The survey maps are then uploaded wirelessly into AgLeaders own data management software called SMS. You can then plan all of your drainage runs, their size, depths, pitches and outlets. This data is then sent back to the display where it will be installed back into the drainer. The operator is then able to install the drains with confidence!

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The second is to use the AutoTile feature. AutoTile mode allows you to drive over the path where the drain needs to be installed to survey the soil profile. You then input a target depth and grade, which the display uses to control the trencher as you install the drain coming back up.

This system has massive advantages, eliminating manual grade calculations, laser tripod setup, repositioning hassles and weather restrictions over traditional laser systems, not to mention the increase in speed and ease of this system. Go to YouTube and search “RVT Intellislope” to see the video for yourself.

Data = Power

Many of you will be aware and have seen the MyJohnDeere Operations Centre, but few will probably know much about it. The most important aspect for you is that it is free to use!

MyJohnDeere connect fields, machines and operators in one centralised location. Being able to store numerous years worth of data that can be analysed, compared and shared with trusted advisors are just some of the benefits it brings.

It’s not just John Deere displays it works with, but data from other manufacturer’s displays are also compatible.

One of the biggest battles is transferring data from the display into the Operations Centre. Traditionally USB sticks have been used, but now there is the ability to do this wirelessly through JD Link Connect. This means as soon as you have finished a field the data is automatically sent back to your account.

JD Link Access provides our workshops with immediate service alerts and error codes for diagnostics minimising any potential downtime.

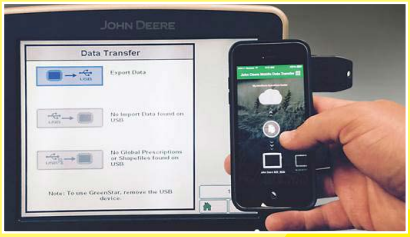
JD Link has recently been restructured, Remote Display Access (RDA) is now included in the basic subscription which has reduced in price. All 7R, 8R, 9R, Self Propelled Sprayers, Combines and Foragers all include 5 years JD Link + RDA in the base model.

Did you know you can create a prescription map from a harvest yield map?

Going forward we will see more advancements in this area and updates to make it a truly industry leading program.

Mobile Data Transfer

Mobile Data Transfer is a USB device that connects to a app on your smartphone which then wirelessly sends documentation and setup data back to the Operations Centre. This can also be used with competitive displays enabling data from different manufacturers equipment to be imported into the Operations Centre.



Examples of our work

Bateman ATU

John Deere's ATU system was installed onto a Bateman self-propelled sprayer in 2015. This was using a SF1 StarFire 3000, 2630 and ATU assisted steering wheel. The customer is using this mainly for spraying off grassland.

Steer Ready Fastrac

This was an installation we performed on a JCB Fastrac 4220. We fitted it with an Ag Leader InCommand 1200 display featuring 30.7cm split screen, pinch & swipe and Section Control as standard, RTK receiver running RVT RTK and ISOBUS connectivity.

Active Implement Guidance on Standen Destoner

This was our first installation of AIG this year, both the tractor and de-stoner are being steered independently to ensure 100% of the placement of these root crop beds. This system uses two RTK StarFire 3000 receivers, a 2630 display, the John Deere 6175R's integrated steering system, and a separate hydraulic control valve and electrics to control the de-stoners steered axle.

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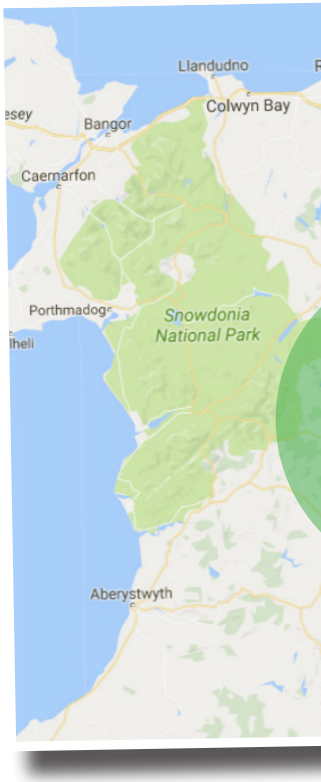

STUDY

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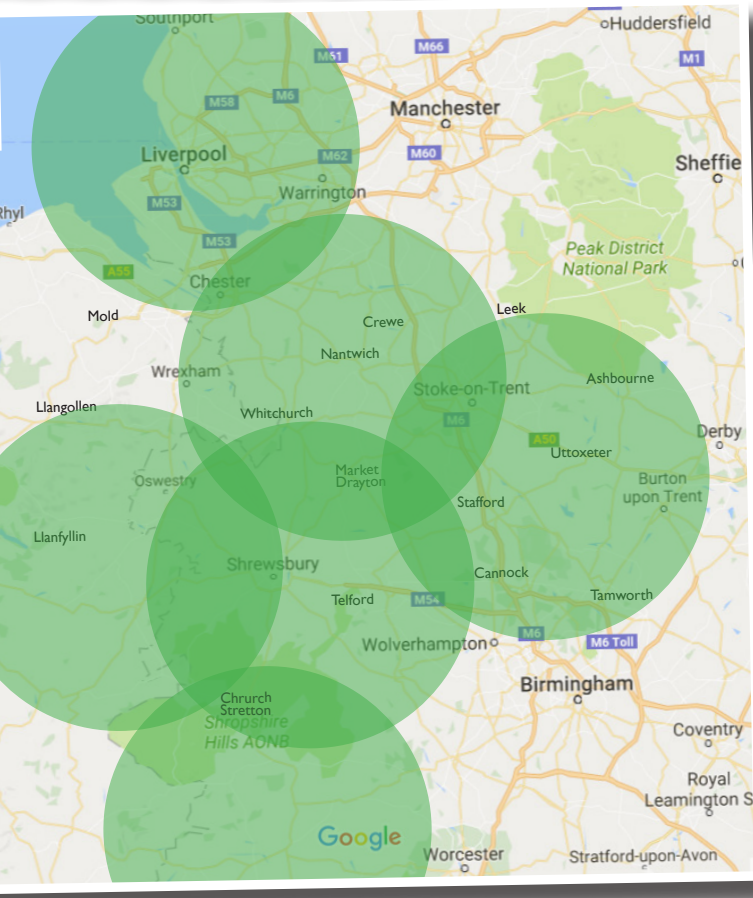

RVT RTK

RVT RTK is a local RTK (Real Time Kinematics) correction signal from six of our own base stations strategically placed across our trading area.

Our RTK signal will provide repeatable pass to pass 2cm accuracy without experiencing any of the line drift sometimes associated with satellite based correction signals. The 2cm accuracy level cannot be achieved with satellite based correction signals which will offer 5cm accuracy at best.

Because the signal is supplied directly to you from our transmitters the signal suffers none of the seasonal distortion sometimes experienced with satellite based signals that travel through the atmosphere.

RTK is particularly beneficial for operations such as the ridging of potatoes, planting and maintenance of vegetable crops, strawberry's, etc where high repeatable accuracy is demanded and the effects of drift from a GPS based signal can become more apparent.

Initial set up costs are extremely low compared to farm installed base station's you simply require an RTK activation and Modem to attach to your existing SF2 equipped StarFire receiver.

ACCURACY YEAR AFTER YEAR

Where ever you travel or operate within our trading area you will receive our RVT RTK signal, there are no line of sight requirements or distance limitations within this area.

RVT RTK is also compatible with most brands of RTK GPS receivers including Topcon, Trimble, Leica and more.

What are the benefits?

- **The most accurate signal available on the market**
- **Eliminates drift for accurate, well defined tramlines**
- **We provide the base station – you rent the signal**
- **Security with John Deere's RTK Extend – stay on track even if the line of sight to the base station is lost**
- **Less crop damage & higher yields by using exactly the same tracks**
- **Saves fuel**
- **Available for most makes of GPS receivers**
- **No on-farm base stations, investment costs reduced**

What does the RVT RTK signal cost?

The RVT RTK signal is an annual subscription and will cost £695/pa for each receiver you wish to receive our signal. **Multiple user discounts are availabe**. A sim card is also required for the modem (average cost £10pcm).

With a 5cm accurate satellite based signal typically costing in the region of £689 we can see that the RVT RTK signal is cost effective and competitively priced giving much benefit over traditional satellite based correction signals.

The Future

Exact Apply

Exact Apply brings individual nozzle control across the boom reducing overlaps and drifts. It also brings the ability to control the rate per individual nozzle.

The **nozzle switching feature** allows you to switch between two pre-positioned nozzles on the go when conditions change. Just touch the screen in the cab to switch to a larger droplet size around critical border areas, waterways or sensitive crops.

Sprayer turn compensation allows the rate to be adjusted whilst circling round headlands or obstacles to allow for the speed of the boom.

Nozzle plug detection helps assure performance by alerting you to any interruptions in nozzle flow or an electric issue affecting nozzle body performance. LED Lights on each nozzle help when spraying during low light or after dark.

Connected Crop Protection and Chemical Application Manager

This combination is an intuitive system that helps users to make an informed decision for a targeted, well-timed and precise application.

The integrated system relies on a range of key technologies that offer recommendations and operator assistance for filling and spraying. It automatically takes buffer zones into account and comes with full documentation.

It also integrates the Chemical Application Manager, a joint development by BASF and John Deere.

The user controls the cycle, plans and edits precision farming applications, documents the individual jobs and provides his partners with access to the consultation feature. So there is nothing stopping this defined, legally compliant application with non-contact operation through voice or gesture control and integral Tank Fill Calculator from being implemented.

For added safety the system scans product codes for further automation of the documentation. This is the first system to provide farmers with a fast, efficient and integral method of crop treatment: from problem identification to treatment recommendation, an application that complies with the law and provides prompt and time efficient documentation.

ITec Autolearn

ITec Autolearn detects headland sequences automatically, after it detects the last sequence was repeated three times, it suggests that the sequence should be automated. The operator can accept the suggestion by pressing a button to store it to the system.

Active Yield Automatic Calibration

John Deere has extended the yield monitoring system by the Active Yield Calibration System.

Three weighing cells are fitted inside the grain tank and measure the vertical forces as the filling level rises. The calibrated system compares these forces with the data supplied by the yield sensor, taking into account the moisture sensor reading.

The accuracy of the calibrated result increases as the number of tank fills increase, so that the inaccuracy settles around +/- 3%. Active Yield is a new and automatic system that eliminates calibration and provides the basis for maintaining a high accuracy in yield metering results on a combine harvester.

CONNECTED NUTRIENT MANAGEMENT

This is a user friendly, optimised nutrient management system enabling the demand-orientated, precise application of organic and chemical N and P fertilisers.

The system supports planning and optimisation with a holistic overall observation of the harvest history and includes technologies for highly precise fertiliser applications.

The data, knowledge and key technologies owned by innovation partners John Deere, Land Data Eurosoft, VISTA, Rauch and Sulky have been tied up in a smart, complete bundle to offer the user an agronomically optimised, site-specific nutrient application system.

Farmers will be able to precisely determine, apply and document nutrient demands (nitrogen, Phosphates etc) for specific sub areas, regardless of the type of organic or artificial fertiliser used.

Since nutrient distribution is optimised according to sub-area demands and vegetation times, it provides a higher level of nutrient efficiency and also optimises nutrient balances.

ACTIVE FILL CONTROL SYNC

John Deere Active Fill Control Sync uses GPS data of both the forage harvester and the tractor trailer combination travelling alongside. It also captures the contours of the trailer and the current filling level and controls the communication between the machines. It is this communication that controls the tractor autonomously. This means the trailer is filled automatically and no part of the crop is lost.

360 DEGREE CAMERA

The John Deere factory installed technology processes digital data, which expands the operator's vision by offering perspectives from different angles or integrates additional information and image processing algorithms into the image.

INTERACTIVE COMBINE ADJUST

At the core of this new system are two cameras inside the grain tank and the returns elevators as well as new grain loss sensors.

The footage of the two cameras can be viewed side by side or separately on the in cab screen. If the operator agrees with the current work quality either after adjusting the settings manually or via the assistant, they can save the result as a target value. If the current quality is off target, ICA 2 will correct all relevant settings automatically and continuously, including rotor speed, concave clearance, fan speed, sieve settings and throughput depending on the operators priority: quality or output.

This is the first system to adjust threshing automatically to target values and presents another step towards the optimisation of the entire process.

Training Courses

At RVT every new machine installation will include initial operator training.

Alongside installation training we have a range of training courses available as refreshers or for new staff members, meaning that we are always there to help you get the most from your investment.

Guidance for Beginners
The whole range of Greenstar displays will be covered for complete beginners.

SF 2630/2600 Overview
A more in depth look at the functionality of these displays. (Candidates would be expected to have a knowledge of basic guidance).

SF 4600/4100 Overview
A more in depth look at the functionality of these displays. (Candidates would be expected to have a knowledge of basic guidance).

StarFire receivers
Get the most out of your StarFire ITC, SF3000 or SF6000 receiver, know the differences, accuracy and set-up options.

Yield Mapping
Learn how to achieve accurate useable maps from your John Deere combine or Self Propelled Forage Harvester, including display set up, yield monitor calibration and export of data.

Section Control and Variable Rate
Learn how get the most out of section control enabled displays, work with prescription maps and obtain accurate as applied maps.

Field Connect
Learn how to install and set up John Deere moisture probes for accurate results. Learn how to access accurate and timely data for your own benefit.

Software Update
Learn how to obtain and update your own Greenstar software, 1800, 2600, 2630, 4100, 4600 & StarFire receivers covered.

MyJohnDeere Operations Centre
Learn how to store, modify and work with your own collected data in the My John Deere Operations Centre. The course covers fields, boundaries, guidance lines, yield, application & prescription maps, machines, data sharing with your agronomist & more.

ITEC & ITEC-Pro
Learn how to use and set up the Headland Management System on your tractor and use I-TEC Pro for automated headland turns.

Course Fees
All courses cost £75/person and will be approximately 3 hours. This duration will not be limited in the event that more time is required.

Certificates of attendance will be supplied to employers to satisfy legislation requiring employers to suitably train staff in the correct and safe use of their equipment.

CASE STUDY
Foden and Abel - Shenstone Hall Farm

Arable farmers Foden and Abel run a fleet of John Deere tractors which are all enabled with JD Link.

The business uses JD Link to monitor each machine's performance throughout the day.

Farm Manager Chris Abel comments "we have a keen focus on idle time, we calculate that on average a tractor will depreciate £10 an hour, so we want our drivers to keep idle time to a minimum."

Chris uses the system to keep up to date with any errors, so he knows the health of his machines.

The farm also uses the Operations Centre as a hard copy for storing fields, boundaries and guidance lines so all displays are running the same setup.

Specialist Events

In field Sprayer Training Days

Combine optimisation events

Open Days in Depot

Showcasing Precision Farming at regional shows and events

Demonstration days

Specialist product training

Look out for 2017 event details on the website & social media!

Support & Service

RVT Precision Farming is unique in the way it supports its customers. We have a dedicated phone line for all precision farming enquiries and support, which is manned throughout the day, with extended hours in peak seasons. We also offer an out of hours support service.

To enable the quickest and best possible response to a customer's needs we operate the following system:

For all initial support and correction license calls, please call 01743 289100. All operational and remote capable support is dealt with immediately on this number.

Out of hours, this number will divert to a mobile. Please note that the mobile will have no record of your phone number so please leave a short message so we can get back to you.

DEDICATED SUPPORT LINE 01743 289100

Support for customers with Remote Display Access will remain free of charge.

Should the call require an on-site visit this will be passed over to one of the two in field support technicians on call on the day.

Our charges are outlined below:

Remote Support	FOC
Hourly rate for on-site visits*	£70
Hourly rate in depot work*	£70
Software update in depot	£35 for 1 x 2630/Receiver
Software update on site	£100 +£35 extras
Software supplied on USB with instructions	£17.50
Annual SF2 Licence inc tel support & 1 x annual software update	£925
Annual SF3 Licence inc tel support & 1 x annual software update	£1,125
Annual RVT RTK Licence including telephone support & 1 x annual software update	£895
In field system set-up/optimisation with 1 implement*	£250
NSTS Spreader Test	£200 for 2 products £35 for extra products
NSTS Pelleter Test	£125
NSTS Sprayer test (test only, no remedial work)	£225 up to 24m + £8/m
MyJohnDeere/Gatekeeper support	50p/acre
Set up MyJohnDeere account on customers computer and instruction on site	£199
In field start of season set-up of combine and AMS*	£250
In field start of season set-up of SPFH and AMS*	£250
Season Hire of Field Connect units with management and installation, Gateway/single probe	£1095 + £250 per additional probe or sensor
Season management & installation of customers own Field Connect including Licence fee	£595
In field set up of spreader/drill for VRA*	£250
Produce VRA (or yield) maps to customers specification	75p/acre
Hire of Isaria Crop Sensor	POA
Bespoke training to suit your needs	POA

***10% discount on marked items for RVT RTK customers**
All prices exclude VAT and are valid until 1st November 2017
For a no obligation quote and to discuss your requirements please contact us on 01743 289100

Basic Services

We don't just offer new installations and GPS product support, we offer upgrade, repair and modification services for existing installations including:

- Bespoke fitments
- A full diagnostic & repair service for all electronic controllers and control boxes
- In house replacement of touchscreens for 2600 and 2630 displays
- Fitting of trackers and telematics devices to all makes and models of equipment
- And much more – please call us to discuss your requirements!

NSTS Testing

We offer NSTS testing for sprayers which has been upgraded with an additional 26 point check. Fertiliser spreaders and pelleters can also be tested, all certified through the NSTS scheme.

NSTS
National Sprayer Testing Scheme

REMOTE ACCESS

When things aren't working as well as they should, the team often find that it is difficult for the customer to pinpoint the problem, or describe to us what they is seeing. This often leads to lengthy calls or one of our technicians undertaking a site visit, which accrues costs that could be avoidable.

Remote Display Access gives the technician much more ability to interrogate the system remotely, meaning a simple solution, identify a more serious problem and avoid unnecessary bills. A customer with RDA enabled displays and machines also has the facility to use technology himself to support his operators. Both JD and AgL have remote display capability, and in most cases accessing the technology will only involve having the correct JD Link licenses and the purchase of an Ethernet cable.

As a reflection of the ability RDA gives us in managing our resources to better support customers, support via RDA will remain free of charge for the foreseeable future.

CASE STUDY

James Heath & Sons - Great Bolas

Shropshire based farmers James and Alastair Heath have embraced Precision Farming technology on all of their pig, sheep, potato and cereal enterprises.

The business has invested in two RVT RTK units including the new StarFire 6000 with 4gLTE modem, Moisture Probles, and have recently trialled iTec Pro for automated headland steering.

"Since using Field Connect Moisture Probes from RVT we have benefited from more efficient use of water and increased yields" comments James

The family team also makes use of Mobile Data Transfer and the Operations centres for storing data.

RVT LEADERS IN OUR FIELD
Rea Valley Tractors
PRECISION FARMING

upgrade with RVT RTK

RVT Rea Valley Tractors RTK

Faster Connection & Future Proof
Upgrade your existing RTK Modem to the NEW 4G LTE Modem
£1,495 plus receive £350 for your part ex modem

RVT RTK Rewards
Upgrade your existing SF2 ready SF3000 to RVT RTK using the NEW 4G LTE Modem.
£3,250 plus your first years license FREE!

Cost Effective Solution
Upgrade your existing SF2 ready SF3000 to RVT RTK with a guaranteed used modem.
£2,000 plus your first years license HALF PRICE!

New Standards in Operational Accuracy
Upgrade from SF3000 to the new SF6000 and receive £1,000 part ex allowance for your SF3000.
Typical example - £2,465 less £1,000 = £1,465
Existing activations can be transferred to the SF6000 for an additional £213

All prices quoted include installation & on going support. All prices exclude VAT

USED AND EX DEMO FOR SALE

Leica Mojo 3D with Exactplus Unlocked for RTK, can be used virtual terminal & upgraded for section control... **£5,250**

TRIMBLE FMX 1000 SCREEN & AG25 RECEIVER, tested good by DK electronics, c/w generic harness **£3,495**

SULKY X40+ FERTILISER SPREADER, 2016 2500L, use through 2630 screen, Econov weigher, extensions.....**£11,000**

ROW FEELER FOR KEMPER HEADER Will fit all Kemper headers, v.good straight condition T: 01743 289100 **£1,000**

RVT Rea Valley Tractors
APPROVED USED SPRAYER
*57 POINT CHECK
*NSTS TEST
*NEW TIPS

MUELLER 1200 DISPLAY & DGPS RECEIVER camera & section contl, runs two isobus implements **£5,500**

ISARIA N SENSOR NEW! Integrated GPS, attachments from front linage or weight block, includes set up..**£17,500**

BERTHOUD 30M TRAILED SPRAYER, 1999 6 section boom, auto rate control, 12 months NSTS test **£10,000**

HARDI SPRAYER, 2005 36m boom, 4400L, floatation tyres, 9 section, auto rate, rear steering axle....**£19,000**

JOHN DEERE 832 SPRAYER, 24M, 4 Section, 3200 capacity, boom trac, axle suspension, row crops.....**£17,500**

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Ashacres Industrial Estate, Sudbury, Derby DE6 5GX
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