

RAVEN

Simply improving your position.™

Viper Pro™

Viper Pro: High Value Features and Benefits

High-powered Windows XP operating system gives Viper Pro the extra memory and processing power you need to maximize your system functions and capability in every area. The sturdy RAM-mounted console gives you complete system control with the touch of a finger.

10.4" diagonal touch-screen display lets you see more and do more in every mode. Super-sized vertical screen profile also offers the best view inside without obstructing your view outside.

First-to-market wireless Internet capability offers convenient in-cab data transfer, analysis and two-way communications, including access to 10 preset Web addresses and Raven's remote support service. A great way to get more out of your time in the field with direct access to global networks when you need it!

Scalable variable rate technology helps you get more out of your fields with less waste and fewer inputs. Viper Pro comes with standard one-product VRA and prescription map capability to start—and you can add VRA capability for a total of five products when you're ready. With Viper Pro, importing and retrieving prescription maps is easy.

Enhanced Last Pass guidance technology is easy to operate and perfect for irregularly shaped fields. Automatic correction intelligence and quick turnaround lock mode for enhanced line acquisition and more precise contour guidance throughout the field are now included.

3-D moving-map guidance display helps keep you on line in any pattern—straight, fixed curve, pivot and enhanced Last Pass. The super-sized vertical screen is easy to read—and doesn't block your view of what's going on outside the cab.

Multiple screen views let you switch on the fly between downfield and bird's-eye views to fit your operating needs at the time. Ideal for checking field coverage or skips one minute—and for spraying or planting the next. Another one of the many on-screen features that help you do more with less.

Four field patterns to choose from means easier line acquisition and faster, more accurate field coverage. Patterns include straight A-B, fixed curve, pivot and Raven's exclusive Last Pass feature for irregularly shaped fields.

Real-time data mapping, field reports and record keeping give you the tools and information you need to improve your bottom line by saving time, reducing input costs and improving overall performance from one season to the next. The ultimate in convenience and simplicity.

Optional WatchDog™ sprayer station helps take the worry out of spraying by recording real-time weather information as you drive. Temperature, wind speed, wind direction, wind gusts and more can be printed out later with your precise field location, application log and date/time stamp for the record.

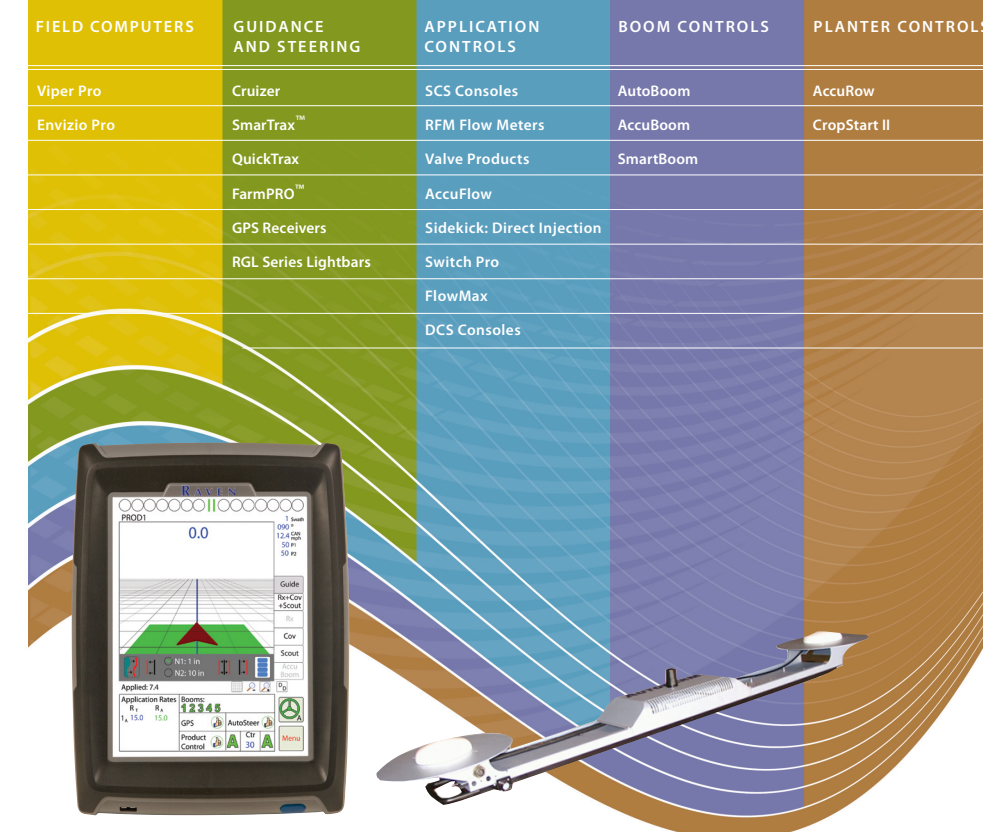
Three USB ports allow you to load and transfer field data and information easily—like time-and-date and Rx maps, coverage records, application rates, wind speeds, temperature, etc—with a simple thumb drive for better farm management and analysis.

Efficient Rbin data format improves your ability to record, analyze and make the best use of field data. Rbin data is easily loaded on your desktop with a free desktop utility for easy record-keeping and printing of application reports. You can also convert your data to SHP files for use with other geo-referenced software programs.

Industry compatible technology allows you to share, collect and print data from commonly used industry software and equipment without problems. With Raven, you don't have to worry about proprietary or compatibility issues keeping you from doing what you need to do.

Compatible with GreenSeeker® optical sensing and application for evaluating crop status as you spray—and automatically making sure your crops get the right amount of nitrogen at the right time and place for optimum yields and nitrogen savings.

It takes a system:
Superior. Seamless. Scalable.



FarmPRO™: The next step up.

FarmPRO™ gives you the very best of two worlds by combining Viper Pro's state-of-the-art computer power and functionality with the exacting precision of AutoFarm's sub-inch RTK automatic steering system. Together, they're unbeatable when it comes to overall efficiency, performance and reliability. Automatic calibration for steering and application functions, tilt correction, variable-rate control for as many as five products, wireless communications, boom height management and section controls—just about every thing you need to get the most out of your farming operation.

Raven Industries
1-800-243-5435
RavenPrecision.com

Raven Industries-Canada
1-800-793-2155
RavenCanada.com



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Raven: Simply improving your position.™

Adding Raven to your operation brings an unequaled brand of precision agriculture innovation and performance to your farm.

Imaginative products that are relevant and reliable. A thoughtful approach to solving problems unique to agriculture. Seamlessly integrated systems that simply work — simply.

An incredible depth of human resources: On-the-ground service from Raven Precision Ag Specialists; our customer-oriented product development and support staff; and your local Raven dealer or distributor.

Raven offers a powerful and profitable product portfolio — targeted precisely on what matters most: Reducing input costs. Increasing yields. Saving time and labor. Making better decisions. Enhancing environmental stewardship. Achieving your financial objectives.

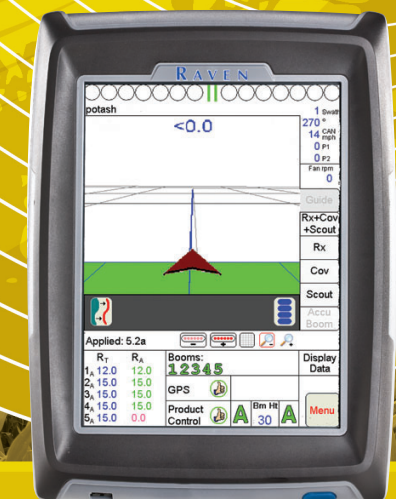
It's all about improving your position. Pinpointing exactly where you are in your field. Applying best management practices to grow more with less. Helping you meet challenge, cope with change and capitalize on opportunity. Strengthening your balance sheet.

If you want to farm better, smarter and more profitably, discover Raven. Because improving your position is our highest priority.

Viper Pro™

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More power and productivity.

Viper Pro™



The Viper Pro multi-function field computer is the best in its field with extra power and capability to drive even the most advanced system functions with ease. For professional operators and larger growers looking for the ultimate in productivity and performance, Viper Pro is built to deliver.

Empowering your potential. Viper Pro brings your system functions to life—and has the power to make sure they live up to their potential. Guidance and steering, variable rate application, wireless communications, boom control, real-time weather records, data mapping—and a whole lot more.

Simple, seamless operation. The genius behind Viper Pro's advanced capability is its simplicity in design and operation. Simple things like our common sense programming and industry-compatible software and equipment offer smooth, trouble-free operation so you can relax while you go about your business.

Ready to grow. Scalable. Viper Pro gives you the freedom you need to step up your system capabilities when the time is right. From RTK sub-inch accuracy to high speed hydraulic assisted steering, automatic boom height and section control, and up to five-product VRA capability—Viper Pro is ready to grow when you are.

Guiding you toward profitability. Viper Pro benefits go straight to your bottom line—especially when you consider Viper Pro's powerful time-saving and productivity-enhancing features. With Viper Pro in your cab, you can know more, control more—and make more.

Stepping up to get the most out of your operation has never been this easy.

A bigger window for opportunity

The Viper Pro multi-function field computer delivers the ultimate combination of operating power and program capability. Big things like faster processing times and more program memory for handling extra field data, five-product VRA capability and multiple system functions with power to spare. Viper Pro's extra large 10.4" diagonal touch-screen display with vertical orientation also let's you see more and do more with enhanced, stress-free operation.

Driving advances for greater productivity

Powered by the Windows XP operating system, Viper Pro quickly turns industry-leading technology into simple, easy-to-use programs that make your job

easier and more productive than ever. Important advances like the industry's first in-cab wireless communications capability, GreenSeeker® variable rate nitrogen control interface, real-time weather records and universal program/equipment compatibility.

Enhanced record keeping and mapping

Viper Pro gives you more ways to manage your field records for maximum efficiency and productivity. Variable rate map technology, easy-to-read field coverage maps, a variety of in-cab review options and real-time weather recording help you get more out of your fields while eliminating skips and unwanted overlaps with ease.

Viper Pro's wireless in-cab communications technology also lets you access, load and transfer files and information

when you're in the field—or you can use a simple thumb drive with one of Viper Pro's three USB ports. With multiple file formats to work with, Viper Pro's extra program capabilities help you to understand more, do more—and make more.

Guidance options for every operation

Viper Pro is compatible with all standard GPS receivers and all Raven steering systems, giving you maximum flexibility to choose the right level of precision for your operation. All options are on the table, starting with Raven's Phoenix 200 sub-meter single frequency WAAS receiver with helix style antenna and optional eDif correction.

Next up is the Phoenix 300 dual-frequency receiver with 9" (23cm) pass-to-pass accuracy using WAAS, EGNOS and Canadian DGPS satellite signals. The Phoenix 300 uses an MBA-6 helix antenna. With an optional paid subscription, the Phoenix 300 can also use corrections

from OmniSTAR VBS—and can be further upgraded to OmniSTAR HP and XP for 2" to 4" pass-to-pass accuracy.

For RTK sub-inch accuracy, add AutoFarm's AutoSteer™ RTK auto-guidance and steering to your Viper Pro field computer. The Viper Pro/AutoSteer™ combination is sold under the brand name FarmPRO™.

Five-product VRA capability maximizes gains and efficiency

With up to five-product variable rate capability, Viper Pro gives you more control over your bottom line. Viper Pro works seamlessly with Raven's CANbus technology and AccuBoom section control to deliver exactly what your field needs in the right amounts and in the right places—all in one pass. It's the perfect way to save time and inputs—and improve your field's performance.



Extra large 10.4" diagonal touch-screen display let's you see more from every angle, including real-time weather data and variable rate field coverage mapping shown here. Viper Pro's unique vertical profile also provides a clear, unobstructed view all the way around.



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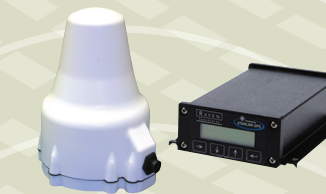
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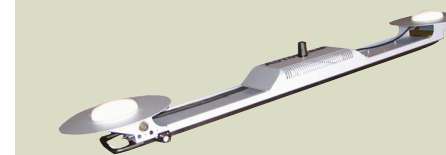
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World-class options for your precision ag system.

Used and endorsed by leading manufacturers, the Viper Pro field computer is number one when it comes to building a world-class precision-based system. Innovative system options work seamlessly with Viper Pro to help you surpass your goals and expectations—simply.



Phoenix 300 Receiver Dual-frequency GPS receiver with an MBA-6 helix antenna for superior performance when satellites are low on the horizon. The Phoenix 300 uses WAAS, EGNOS and CDGPS free corrections for 9" pass-to-pass accuracy—and is available with OmniSTAR VBS with a paid subscription. Upgrades also available for OmniSTAR HP and XP for 2" to 4" pass-to-pass accuracy.

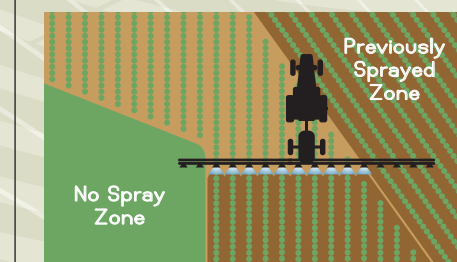


RTK AutoSteer™ Multi-Antenna Roof Module For RTK sub-inch accuracy, add AutoFarm's RTK AutoSteer™ multi-antenna roof module and steering to your Viper Pro field computer. AutoSteer™ offers unique adaptive control capabilities calibrated to the dynamics of your vehicle. That makes it ideal for strip farming and other practices that require maximum precision. This con-

venient low-profile roof module is also easy to mount and easy to transfer from one piece of equipment to the next.

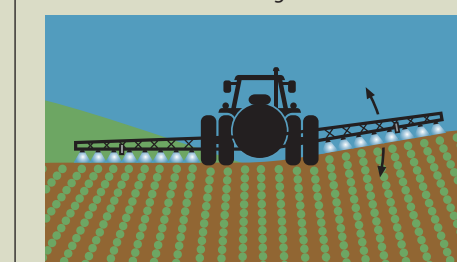
AccuBoom Automatic boom section control with CANbus technology for extra chemical savings and environmental benefits. Allowing you to eliminate skips and avoid no spray zones and previously sprayed areas.

AccuBoom Automatic Section Control

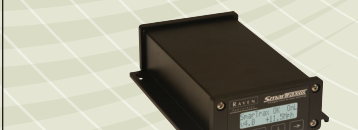


AutoBoom The ultimate in automatic boom height control. Allowing you to spray more acres in less time—and with less effort. Ideal for booms of all sizes and for controlling larger booms easily. Innovative design also reduces wear and tear on valuable equipment. Three system options available.

AutoBoom Automatic Height Control



WatchDog™ Sprayer Station External mounted weather station from Spectrum Technologies records weather data as you spray for later use in reporting actual field records at any point in time. Data includes temperature, relative humidity, wind speed and direction and more.



SmarTrax™ The most accurate GPS-assisted hydraulic steering package in its class. Delivering hands-free steering at speeds up to 27 mph with faster line acquisition and more accurate spraying, spreading, seeding and tillage.



Switch Pro Innovative design lets you upgrade easily from your Raven SCS spray control system to Viper Pro with the same cabling. Easy to use with up to 10-product section control. Simply replace the SCS console with Switch Pro and you're good to go.

Your Raven brand distributor and Precision Ag Specialists have the training and experience to help you evaluate your needs and build the best precision ag system for your operation.