

CR7

The latest innovation from Raven is a small, yet powerful field computer. The CR7 is a 7″ lightweight field computer with customizable in-job layouts. A simple widget concept, easily accessible settings, and ISO Universal Terminal and Task Controller capabilities make this mighty unit an affordable, plug-and-play system. The CR7 is compatible with Slingshot[®] file transfer and remote support, SmarTrax[™] autosteering, AccuBoom[™], Raven serial consoles, and more.

Difference Between Cruizer II

- The CR7 has the cost effectiveness of the Cruizer, but with increased scalability
- Faster processor and more memory
- Larger display (7" instead of 5.7")
- · Can be unlocked to use UT and task controller
- Will work with Hawkeye, RCM, RS1 (June 2018), and other Raven ISO products
- CR7 GPS will have future scalability (June 2018)

Easy Replacement

The CR7 can replace your Cruizer II even when paired with an SCS console, AccuBoom, or SmarTrax.

Slingshot® Ready

CR7 harnesses the power of Slingshot for outstanding data management functionality giving you powerful tools for gathering, tracking and reporting. Getting the data you need, organizing it and turning it into meaningful information is faster and easier. Slingshot also gives you access to live remote support from Raven's team of experts.



Benefits & Features:

- Multiple language support and customizable units
- Simplified, customizable widget layout
- Ability to access settings page from inside a job
- Map-based navigation
- Auto field boundaries keep you organized automatically
- Interactive field/job list and map view
- Slingshot-ready for file transfer, remote support, and OTA software updates
- Compatible with Raven AccuBoom, serial SCS consoles, and external lightbar support
- ISO Universal Terminal and Task Controller functionality via unlock
- Straight A-B, A plus heading, pivot, contour, and last pass guidance
- Compatible with autosteer products including SmarTrax and SmarTrax MD
- Sub-meter single frequency GPS and GLONASS (optional external)
- Optional scalable external receiver (June 2018)



SmarTrax AutoBoom AccuBoom Sidekick Pro AccuFlow 600S Receiver Hawkeye Nozzle ISOBUS Slingshot RS1 RCM Control System & VT



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Viper 4[®]+

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The Viper 4+ is the powerful, fourth generation Viper field computer and it just got better. Powered by Raven Operating Software, Viper 4+ integrates with Raven's full line of products into one connected platform.

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Designed to work with equipment of any brand, the Viper 4+ is easy to use, requiring fewer touches and providing greater efficiency. It's a highly advanced field computer with intuitive controls, improved ease of use and extraordinary data management capabilities. And for you operation, this means increased efficiency, productivity, and profitability.

What's New

- Faster boot-up time, approx. 30 seconds
- Capacitive touch screen
- Screen up to 3 times brighter with improved peripheral viewing
- Ignition switch start-up and boot-down
- Built-in-self-test capabilities to help identify software issues with the unit itself
- Street maps provide county road maps

Raven Operating Software

Raven Operating Software (ROS) gives operators the ability to customize screen layouts to fit your application and other user preferences. Grower, farm, and field file structures help ensure you get the data you need in an organized and meaningful manner. Machine and product profiles offer even further customization, making the Viper 4+ the perfect match for each unique operation and user.

Slingshot® Ready

Powered by Raven Operating Software and a high-speed processor, Viper 4+ harnesses the power of Slingshot for outstanding data management functionality and the ability to wirelessly update your field computer software. You get powerful tools for gathering, tracking, and reporting. Getting the data you need, organizing it, and turning it into meaningful information is faster and easier. And Slingshot gives you access to live remote support from Raven's team of experts.



Features Include:

- Customization by user and machine
- Horizontal or vertical orientation
- Sleek design with 12.1" capacitive touchscreen and intuitive, tablet-like interface
- State-of-the-art, rugged magnesium alloy enclosure
- Dustproof for tough environments
- Four camera inputs for monitoring bin levels, blind spots, roadway operation and more
- Integrated, fully scalable GPS receiver, including Slingshot GS, Satellite GS, and RTK
- Customizable user interface
- Set up machine and product profiles
- ISOBUS and agX compatible
- Wireless over-the-air software updates
- ISO VT with task controller capabilities
- On-screen implement location with section status

SmarTrax AutoBoom AccuBoom Sidekick Pro AccuFlow 600S Receiver Hawkeye Nozzle ISOBUS Slingshot RS1 RCM Control System & VT

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*Envizio Pro requires software version 3.10.X.X or newer to be compatible with Field Hub. 20. **Viper Pro requires a software patch in order to be compatible with Field Hub 2.0.

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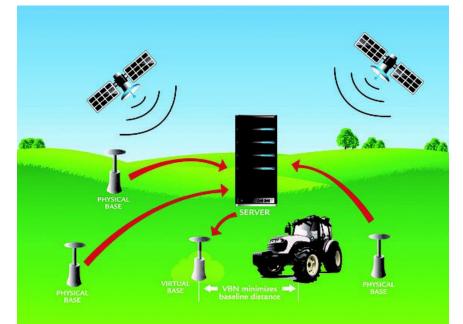
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DigiFarm RTK Corrections

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Take your farm's precision ag system to the next level of accuracy with an RTK signal from DigiFarm



The Virtual Base Network (VBN) uses all of the bases in DigiFarms's network combined with powerful server software to create a "virtual" base station in close proximity to where you are working, for extreme accuracy.



Beacon V3.0

•Class 1 bluetooth device •Stream RTK through iPad or Iphone using NTRIP app •Use existing data plans •No cables for Trimble devices •Adapter cables for other brands Ruggedized, weather resistant Very fast installs Cost effective Also works with Android and Windows devices <--or-->

Cellular gateway for RTK corrections
Available in 3G and LTE models
Web based user interface
Optional Wi-Fi module
Optional bluetooth module
Remote access/remote support

DigiFarm VBN works with all major brands of receivers



DigiFarm has data plans



•Cabling options for most GPS receivers •Support for all major brands of GPS including John Deere •Ethernet interface •Supports most cellular carriers worldwide

		Single
VBN vs. Single Base RTK	VBN	Base RTK
Sub-inch year-to-year repeatability	Yes	Yes
Sub-inch accuracy at 6 miles	Yes	Yes
Sub-inch accuracy at 20 miles	Yes	No
No line shift between towers	Yes	Yes
Maintain accuracy during base station outage period	Yes	No
Water management vertical accuracy greater than 2 miles from base	Yes	No
Hardware specific data streams customized for each brand of GPS	Yes	No
Baseline distance always minimized for improved accuracy	Yes	No
Chart assumes single base is properly surveyed, often times it is not		

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Satellite GS

Satellite GS utilizes the TerraStar network of satellites for decimeter corrections. Affordable enhanced GPS accuracy without needing a modem or base station. Subscriptions are available in 3 months, 1 year, 2 years, and 3 years.

GS Corrections Requirements

	Satellite GS
Purchasing	Purchase subscription online at ravenslingshot.com/store
Unlocks	Receiver Unlock
Hardware	Cable Receiver: Phoenix 300 with USB, Envizio Pro II, Viper 4, 600S
Subscription	Yes
Cellular Plan	No

GPS Receivers

Receiver	Accuracy	Correction		
Phoenix 50	2M RMS	SBAS		
Phoenix 200*	Sub-Meter	SBAS, Unlockable GLONASS, Autonomous GPS	e titiz	•
Phoenix 300*	Scalable	SBAS, Unlockable GLONASS, Satellite GS, RTK, Autonomous GPS		
600S	Scalable	SBAS, Decimeter, RTK, Autonomous GPS	Phoenix 50	
Cruizer II* (Built-In)	Sub-Meter	SBAS, GLONASS, Autonomous GPS		Phoenix 300
Cruizer II RTK* (Built-In)	Sub-Inch	SBAS, GLONASS, Autonomous GPS, RTK		
Envizio Pro II* (Built-In)	Scalable	SBAS, GLONASS, Autonomous GPS, Satellite GS, RTK		RAVEN
Viper 4 (Built-In Option)	Scalable	SBAS, GLONASS, Autonomous GPS, Satellite GS, RTK		
Discontinued pro	ducts		Phoenix 200	600S

*Discontinued products

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· Phoenix 200 & Phoenix 300 have been replaced by the 600S

GPS Correction	Pass-to-Pass Accuracy	Year-to-Year Repeatability	GLONASS	Delivery	Subscriptions
RTK	± 1 in/2 cm (also referred to as sub-inch)	± 1 in/2 cm	Yes	Cellular	Variable
Satellite GS	± 2-4 in/5-10 cm (also referred to as decimeter)	± 4 in/10 cm	Yes	Satellite	Variable
SBAS	\pm 6-10 in/15-25 cm (also referred to as sub-meter)	± 3 ft/1 m	With Upgrade	Satellite	N/A

·SlingShot GS was discontinued in 2016

Garmin GPS Speed Sensor



·Magnetic Mount •Accurate to .1 mph ·Speed Range: .5 to 20mph





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Patch (Cruizer*) 063-0172-101

Antennas





MBA-3* (Cruizer*) MBA-6* (Phoenix 300* & Epro II*)

MBA-7 Replaces MBA-3* & MBA-6* 117-0171-141 Kit

*Discontinued in 2017

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SmarTrax™ SmarTrax™ RTK

The more acres you farm, the more you'll appreciate SmarTrax and SmarTrax RTK assisted steering.

This unique hydraulic-assisted steering system enhances high speed operation by offering faster line acquisition, correction for changes in soil condition and implement pull. SmarTrax and SmarTrax RTK offer across-the-board GPS compatibility, 3D terrain compensation, and automatic system calibration.

Key Features & Benefits:

- Across-the-board GPS compatibility
- 3D terrain compensation
- Automatic system calibration
- RTK accuracy and repeatability from year to year
- Best-in-class operating speeds for covering more ground faster
- Compatible with many steer-ready machines
- Multiple kits available to fit most modern tractor types
- Slingshot[®]-compatible RTK correction signals

Compatible with four field patterns for faster line acquisition, higher operating speeds, and more relaxed driving.



SmarTrax RTK offers 3D terrain compensation for maximum accuracy and repeatability, automatically adjusting for tractor roll, pitch, and yaw.

Full Speed Ahead

Raven's simple-to-install mechanical drive steering system harnesses the newest technologies to keep you on track and on line all day long. You'll benefit from added torque for faster operating speeds, increased accuracy and reduced noise. Transfer SmarTrax MD between multiple machines, including combines, tractors, and more.

Key Features & Benefits:

- RTK capable
- High operating speeds
- High torque for best in class line acquire and online performance
- · Simple to install and move between machines
- 3D terrain compensation
- Quiet operation



Use SmarTrax/SmarTrax RTK and SmarTrax MD on the following:

Cruizer II Cruizer II RTK Envizio Pro Envizio Pro II Envizio Pro XL CR7 Viper Pro Viper 4+

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RS1[™]

The most accurate high speed steering system in the industry

Incredible accuracy at both high and low speeds with quick line acquire improves efficiency and gives you the power to cover more acres in a day. Best-in-class diagnostics gather machine performance data while you work, alerting Raven of issues and connecting you to support as you need it. The unit is designed with a simple set up and integrated help guides, enhanced further by Slingshot[®] providing remote support, file transfer, OTA software updates and fleet management and logistics.

Key Features & Benefits:

- Enhanced steering performance in a wide range of terrain
- Enhanced 3D compensation for rugged terrain
- Wide temperature range for inertial sensors (-40 to 70 deg. C)
- Simplified field calibration procedure
- Fully scalable GPS solution
- Enhanced diagnostics and health tests
- Remote service support (OTA updates, remote service, telematics)
- Multiple methods of system connectivity (cellular, WiFi, Ethernet)
- Serial GPS output (NMEA 0183) or radar output
- Multi-lingual support
- Compatible with ISOBUS 11783 curvature messages for both ISO steer ready and Raven aftermarket steering controllers

RS1 is compatible with:

- Slingshot®
- CR7 (June 2018)
- Viper 4+
- 3rd party ISO compatible monitors to be listed soon, ask for update



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The RS1 combines autosteer, GPS, and Slingshot® into one intuitive, easy-to-use unit

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AutoBoom®

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Automatic and effortless boom height control

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The AutoBoom automatic boom height control system offers faster operating speeds, simple calibration and user-friendly controls. Its unique hydraulic-powered design delivers a smooth and responsive height-adjusting system. AutoBoom gives you increased efficiency with faster spraying speeds, covering more acres in less time and with less operator stress and fatigue.

Key Features & Benefits:

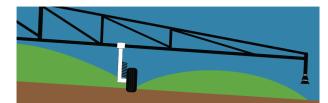
- Adjusts to optimal spray height to prevent drift or inconsistent droplet size
- Pressure-based control for smoother boom movements and adjustments
- Automatic calibration, less than one minute per boom
- Optimal spray height ensured
- Increased efficiency with faster spraying speeds to cover more acres in less time
- Up to 7 sensors, including center rack control
- Less wear and tear on the boom
- ISOBUS compatibility
- Stand alone controller allows users to add AutoBoom® without a field computer
- For extreme terrain upgrade to AutoBoom® XT



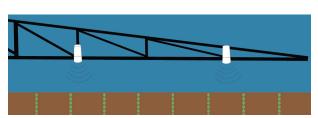
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The stand alone controller allows users to add AutoBoom[®] (except AutoBoom[®] XT) in the absence of a field computer.

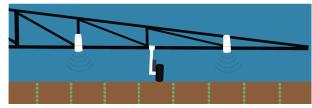
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AutoBoom[®] PowerGlide Plus System Includes axles, wheels, and struts



AutoBoom[®] UltraGlide System Includes ultrasonic sensors



AutoBoom[®] UltraGlide with PowerGlide Plus The ultimate upgrade offers the best of both systems



AutoBoom® XT Provides optimal performance in extreme terrain conditions to keep the center rack stable

Compatible with Raven devices including:

SCS 4000/5000 Cruizer II* Envizio Pro Envizio Pro XL Envizio Pro II Viper Pro CR7 Viper 4+ AutoBoom ISOBUS Series* **Not compatible with AutoBoom® XT **Subject to 3rd party ISO capabilities

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AVE

AccuBoom[™] Simple section control pays for itself

Greater fuel and chemical savings, faster spraying times, ease-of-operation and more accurate spraying all add up quickly to improve your return on investment each and every season. Dollar for dollar, AccuBoom[™] offers the fastest payback in precision ag equipment. AccuBoom automatic section control is your best protection against rising input costs.

AccuBoom[™] automatically turns booms on and off, reducing overlap and overspray therefore reducing chemical wastage, time and cost. By monitoring where the sprayer or spreader has applied, AccuBoom[™] automatically turns boom sections on when traveling into areas that have not been covered and turns boom sections off when encountering previously applied areas or "No Spray Zones" such as waterways. With its hands-off control, AccuBoom[™] also helps reduce operator fatigue.

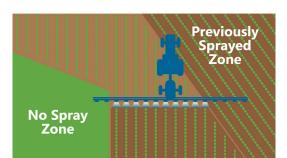
Key Features & Benefits:

- Automatic on-off control for up to 10 sections
- Eliminate costly skips and overlaps
- Adjustable look ahead function lets you adjust settings easily for the overlap you choose
- Speed compensation function accounts for how fast you are driving and ensures properly timed shut-off
- Reduced operator fatigue
- Simplified coverage of point rows
- Optional remote control to help check nozzles quickly



Wireless receiver and remote control option lets you check each section by yourself outside the cab. Great for catch tests and troubleshooting!

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AccuBoom™ Automatically shuts booms off in previously sprayed areas and "no spray zones"

Compatible with the following devices: Cruizer II Envizio Pro Envizio Pro II Envizio Pro XL CR7 Viper Pro Viper 4+ Precision Electronics

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Raven ISOBUS

Raven's solution for universal communication

The Raven ISOBUS single product control node is designed to add speed compensated product control capabilities to ISOBUS virtual terminals. Adding the Raven ISOBUS product control node allows machine operators to monitor and control a Raven product control system directly from a virtual terminal (VT) display.

	Sid Failty villuar terminals with Naven ISOBOS											
Tractor Mfr.	VT	Total # of Products	Liquid	Granular/ Spinner	AccuFlow/ AccuFlow HP	Datalog/ VRA	ISO Section Control	# of Sections Raven ISO	Products Displayed on Guidance Screen	AutoBoom	# of Injection Pumps	ISO Switchbox
John Deere	GS2 (2600)	1	x	x	х	1 Product	N/A	10	1	х	N/A	х
John Deere	GS3 (2630)	1	x	x	х	4 Products	х	10	4	х	3	x
CNH	Pro 700*/ Intelliview IV*	1	x	x	х	1 Product	x	10	1	х	N/A	x
AGCO	C1000	1	x	x	х	N/A	х	10	1	х	N/A	х

3rd Party Virtual Terminals with Raven ISOBUS

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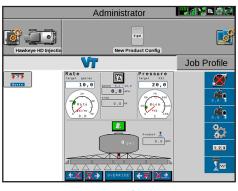
*Self propelled sprayer mode does NOT support ISO control

Also AutoBoom capable: CNH Pro 600 & Intelliview II, AGCO Falcon VT & C3000, & Ag Leader Integra & Versa

JD 2630 with GS rate controller can run Raven: liquid, granular (spinner control w/GRC Dry), AccuFlow, & up to 3 direct injection pumps (pull type only) VT & Task Controller unlocks, hardware, & software may be required to use Raven ISOBUS

Key Features & Benefits:

- Industry leading flow and application control technology
- Optional switch box for manual override of individual section
- Universal product page no matter what controller you use
- Task controller interface, section control compatibility, data-logging, and variable rate application with supporting virtual terminals
- Liquid including Hawkeye, granular with spinner control, NH3, & Sidekick Pro injection
- Can be added to existing systems to replace an existing SCS console or be added to a brand new application



Viper 4 VT Screen

Compatible products:

Liquid Control Hawkeye[®] Granular Control AccuFlow[™] AccuFlow[™] HP+ Sidekick Pro CR7 Viper 4+ ISOBUS RCM & Spinner Control & VT*

*Subject to 3rd party ISO console capabilities

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Hawkeye[®] Nozzle Control

Precision like you've never seen before

The Hawkeye Nozzle Control System is ultra-precise. This pressure based product control system allows for precise sprayer application in a variety of conditions, reducing spray drift and getting the most out of every nozzle. Each nozzle is controlled by its own individual pulsing valve giving you a consistent spray pattern as speed and conditions change.

The Hawkeye System is built on the ISOBUS communication platform which allows it to work with ISO Task Controllers, including the Viper[®] 4+. Hawkeye has also been tested for shock, vibration, impact, and weather resistance in rugged terrain and extreme temperatures. Its durability is unparalleled.

The Hawkeye® Advantage

- Nozzle-by-nozzle turn compensation standard
- Fully integrated with machine application control systems
- One control module per system
- PWM control provides quick response
- Simple and clean installation, setup, and calibration
- Individual valve diagnostics monitor every nozzle to alert you immediately of a system issue
- Seal maintenance kit included with each system
- Adjustable pressure on the fly including 2 preset pressures
- Two-year warranty with registration
- Mapping and data logging of each nozzle for more accurate record-keeping
- Precise application rate in a variety of conditions
- Consistent coverage
- Wide speed range
- Ability to manage drift and off-target applications
- Accurate droplet size and placement
- Extended range out of each nozzle
- Fewer nozzle changes
- Blended pulse application

Hawkeye® HD

- Individual nozzle shut-off
- Reduces costly skips or overlaps
- Upgrade with a simple software unlock- no change in hardware required

Virtual Section Capability

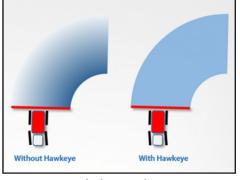
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- Program up to 16 additional sections for on/off control
- Available with base system-no upgrade needed
- Provides more section control and higher ROI than traditional boom valve configured systems

Sidekick Pro[™] Direct Injection Compatibility

- Inject additional chemicals in the line as needed without worrying about tank mixing or clean-out at the end of the day
- Greater flexibility in your applications, so you can handle weed resistance and other challenges
- With Hawkeye, use up to 5 injection systems on one machine through the Viper[®] 4+



Nozzle-by-nozzle turn compensation standard

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Compatible products:

Sidekick Pro[™] RCM CR7 Viper 4+ ISOBUS & VT*

*Subject to 3rd party ISO console capabilities





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Rate Control Module (RCM)

The most accurate rate controller on the market

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The RCM uses Raven's innovative control algorithms to make it the most precise application controller on the market today. It fits a variety of applications—up to five product liquid and granular control, NH3 (including AccuFlow[™] HP+), air cart, and generic applicators. Sixteen-section control eliminates expensive skips and overlaps for all phases of your operation, from spraying to NH3, and fertilizer application to planting.

The RCM is incredibly user friendly. We've simplified the setup, introduced integrated help content, and added advanced diagnostic information to quickly identify issues and reduce costly downtime. Customizable user interfaces give the operator the flexibility to see and control what fits their needs, and configurable machine profiles allow the RCM to easily move between machines and implements without re-setting machine configurations. The RCM is compatible with many ISOBUS virtual terminals on the market, including the Viper[®] 4 and Viper[®] 4+ from Raven.

The Raven Rate Control Module is the ultimate advancement in precision and efficiency, and the next solution for your operation's success.

Key Features & Benefits:

- Liquid, NH3, dry applications, and injection
- Easily navigate and manage multiple products, tallies, and sensor data
- Diagnostic tests and reading to easily calibrate, tune, and troubleshoot system
- · ISOBUS compliant CAN channel, plus 3 available CAN subnets
- Compatible with ISOBUS Virtual terminals and Task Controllers
- Bluetooth 4.0LE for long range line-of-sight wireless connectivity for control, monitoring, and diagnostics
- Multi-language support
- IP 67 environmental rating
- Integrated magnet mount option to easily attach and detach
- Dynamically configure run screen based on operator preferences to show most relevant data during operation
- Move between machines, stores up to 8 machine profiles

RAVEN Rate Control Module

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Compatible with these VTs & More

- AGCO NT01 (Fendt)
- AgJunction Outback Max
- Ag Leader InCommand
- Ag Leader Integra
- CaselH Pro 700
- Intelliview IV
- John Deere 2630
- John Deere Command Center 4600
- Mueller Touch1200
- Raven Viper 4 & CR7
- TopCon X30
- TopCon/AGCO C3000
- Trimble TMX-2050

				computio	ne products.					
Li	quid Control	,	Granular Control & Spinner Control	AccuFlow™	AccuFlow [™] HP+	Sidekick Pro	CR7	Viper 4+	ISOBUS & VT*	

*Subject to 3rd party ISO console capabilities

Compatible products.

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Machine Types and Their Capabilities

- 1. Air Cart / Generic Applicator
 - A. 1 to 4 Products / 16 Sections, 5 Products / 12 Sections
 - B. Support for up to 2 Fan RPM sensors, 6 pressure, bin level and/or shaft sensors, and implement height switch
- 2. Liquid Product Control
 - A. Sidekick Pro ICD compatible
 - B. Pull-behind sprayer / Self-propelled sprayer / Liquid fertilizer tool
 - C. 3 Wire Section Valves
 - 1 Product, 16 Sections + 2 Fencerows, Sidekick Pro ICD compatible up to 4 DI pumps, Tank Fill Monitor compatible
 - D. 2 Wire Section Valves
 - 1 Product, 8 two-wire valves (Sections 1-8), 8 section signals for two-wire valve interface external module (Sections 9-16) + 2 Fencerows, Sidekick Pro ICD compatible up to 4 DI pumps
 - E. Tiered Boom Direct
 - 1 Product, 10 Sections x 2 Tiers, Sidekick Pro ICD compatible up to 4 DI pumps
 - F. Tiered Boom External
 - 1 Product, 16 Sections, 2 Tier Signals (External module required) + 2 Fencerows, Sidekick Pro ICD compatible up to 4 DI pumps
- 3. AccuFlow HP+
 - 2 add on products +2 ICD injection pumps, up to 10 NH3 sections, 14 total sections
- 4. Pull-behind spreader / Self-propelled spreader
 - A. 4 Products / 4 Sections / Spinner RPM Control

Sections Per Machine Type

Sprayers / Liquid Fertilizer Tool

# of Products	3-Wire Valves	2-Wire Valves	Tiered Boom (3-Wire Only)
One Product Only	16	8	20 total

Multi-Product Applications

# of Products	NH3 Toolbar Configs	Spreaders	Air Cart / Generic
1	10	12	16
2	14	12	16
3	14	12	16
4	n/a	12	16
5	n/a	12	12

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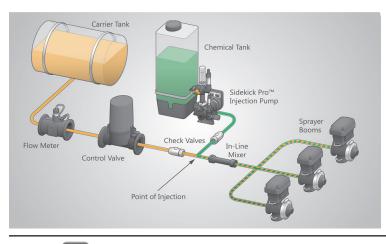
Sidekick Pro[™] Direct Injection

Greater accuracy and savings with every pass

The Sidekick Pro[™] direct injection system sets a new standard for chemical applications of every type, with unprecedented precision, savings, and safety. No tank mixing required and with the industry's first automatic calibration feature, you're ready to go in minutes. Utilize Rinse Assist to automatically flush the pump quickly and thoroughly. The whole system is amazingly simple and pays off with greater precision, higher yields and unrivaled efficiency. The industry leader in direct injection.

Key Features & Benefits:

- Up to 4 units on one machine, allowing easy switching between fields and applications, add Hawkeye for additional injection
- No pre-mixing, tank mixing, cross contamination or clean out
- Powerful positive displacement pump injects on the pressure side, closer to the boom, for faster response time
- Eliminate waste for more environmentally friendly practices
- Reduced chemical exposure means additional safety for operator
- Adjust chemical concentration on the fly rather than spraying more or less of the entire mix
- High resolution encoder that provides smoother pump control and exceptional lock on target rate technology
- Remote closed-system calibration, eliminating the need for calibration catch tests and exposure to chemicals
- Compatibility with additives that reduce maintenance on your application system
- Automatic priming feature and real-time diagnostics
- ISO compatible pump
- Pump options:
 - Low volume pump with capacity of 1-40 ounces per minute
 - High volume pump with capacity of 5-200 ounces per minute



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Rinse Assist Option

- Automatic rinse system that can clean the chemical out with the push of a button
- Three way valve automatically opens to a rinsing agent tank
- Valve automatically returns to chemical tank position at the end of the rinsing cycle

Sidekick Sidekick Sidekick Pro **Pro ISO Pro ICD Product Controllers Raven Product Controller** х ISO Product Controller I х ISO Product Controller II х RCM х Consoles Viper 4/Viper 4+ х х х CR7 х х **Envizio Pro Series** х SCS 4000/5000 Series х 3rd Party ISO Consoles* х Subject to 3rd party ISO console capabilities

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Compatibility

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Switch Pro™

A simple step for a new level of precision

The Switch Pro[™] control console is designed to help growers and ag retailers move up to a new level of precision. Simply replace your Raven SCS 440, 450, or 4400 spray console with Switch Pro[™]—and pair it with any of our Envizio Pro[™] series field computers, Viper Pro[™], or Viper[®] 4 field computer. With Switch Pro[™] you have on-off section control, adjustable 0-100 percent coverage control, and a manual override function for greater savings and productivity.



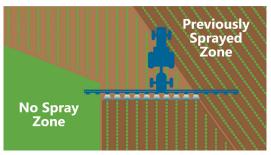
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Key Features & Benefits:

Simple installation

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- Single-product liquid or NH3 application control
- AccuBoom[™] automatic 10-section shut-off control prevents over spraying, skips on point rows and headlands, and reduces operator stress & fatigue
- Replaces external switch boxes and SCS consoles and reduces cable clutter
- Bracket allows placement below Envizio Pro[™] series or Viper Pro field computers



Switch Pro[™] includes AccuBoom[™] Automatically shutting booms off in previously sprayed areas and "no spray zones"

Compatible with the following devices:

Envizio Pro Envizio Pro II Envizio Pro XL Viper Pro Viper 4+

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SCS Control Consoles

The industry's most trusted spray controllers

Whether you start small or are looking for a spray console with more performance capability, you're sure to find it in our product guide below. And when you're ready for the next step, Raven has a multi-function field computer with your name on it and a simple way to help you make the transition with our handy Switch Pro control console.

High-performance SCS Series Consoles provide a variety of data, including tank volume, total and field area covered, total and field volume applied, vehicle speed, area covered per hour, and volume per minute of the system. In addition, Raven controllers are GPS compatible for data logging and variable rate applications.

PRODUCT FORMS

SCS 660M 1 Product Liquid, NH3, M

Standard SCS Console Features

PRODUCT CAPABILITY

Automatic rate control

SPRAY CONSOLE

- Low-limit function
- Volume and area totals
- GPS compatible
- Digital boom pressure readout

- Supports a variety of flow
 - meters and control valves • Audible alarms
 - Self-test function
 - Rate +/- functions
 - One-product capability

SCS 4000 & 5000 Series

BOOM CONTROLS

- Data logging capabilities (SCS 4400 & SCS 4600 only)
- Upgrade software remotely via serial port
- 5-product capability
- Sidekick Pro[™] compatible
- AutoBoom[®] compatible (except AutoBoom[®] XT)

Compatible with the following devices:

AccuBoom Cruizer II Envizio Pro Envizio Pro II Envizio Pro XL Viper Pro CR7 Viper 4+

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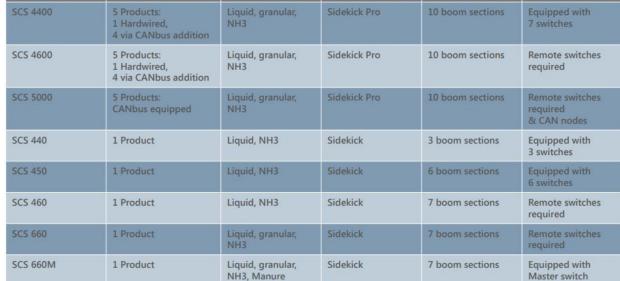
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BOOM SWITCHES



DIRECT INJECTION







063-2000-005 New Style Helix Antenna 117-0171-141 Kit (Includes Cable)



063-0172-971 Mounting Plate With Double Sided Tape Ram Mount for all Cruizers For Old Style Helix Antenna (MBA-3)



103-0159-011



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063-0172-971 Mounting Plate With Double Sided Tape For Old Style Helix Antenna (MBA-3)



115-0171-792 **Boom Sense Adapter** Remotely toggle on/off coverage map

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115-0171-787 20' Helix Antenna Cable

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115-0172-054 SCS Console Speed & Boom Sense Cable Enables section on/off mapping

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115-0171-793 Speed Output to SCS Console & Port Expander Cable AE2567 (Speed Only)

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