

Raven Precision Solutions specializes in:

guidance and precision systems

boom management systems

chemical injection systems

application control systems

planter control systems

fluid transfer systems and accessories



To contact the dealer nearest you, call

Raven Industries 1-800-243-5435 or

Raven Industries Canada 1-800-793-2155

or visit our website at www.ravenprecision.com

QuickTrax

SmartTrax
Straight shot to easy steering



Building the Platform for Success

Raven products continue to make agriculture easier and more profitable for growers and ag retailers all over the world — SmarTrax™ is no exception. Whether you’re planting or spraying, SmarTrax minimizes skip and overlap for improved accuracy and less waste – and it works with virtually any GPS receiver with NMEA protocol and a 5 Hz or greater update rate.

SmarTrax Features

- > Line Acquisition – Engage system after turning half-way around
- > Sub-meter and decimeter modes to match your application and GPS receiver capabilities
- > Configure via LCD and membrane keypad
- > Rugged, weatherproof enclosure
- > Exclusive Raven technology
- > Operate at speeds up to 22 mph

QuickTrax Features

- > Steering wheel drive for SmarTrax
- > Easy installation
- > No hydraulics
- > Can be moved between machines
- > Gear drive, no friction wheel to slip
- > Accuracy from Sub-meter to Decimeter
- > Quick line acquisition, no need to line up close to next path before engaging



Steering Accuracy

- Sub-Meter** > 15-30 cm (6-12 in) RMS swath-to-swath accuracy at 20 minutes with the Invicta 115, 210/310, and Phoenix 200 GPS receivers (WAAS)
- Decimeter** > 5-10 cm (2-4 in) RMS swath-to-swath accuracy at 20 minutes with the Phoenix 300 GPS receiver (OmniSTAR HP)

Supported Vehicle Types

Supports many models of tractors and sprayers. New models are added frequently. Visit www.ravenprecision.com for the most up-to-date list.



Invicta 115 Smart Antenna

- > All-in-one receiver & antenna (No separate receiver box needed)
- > Differential Correction Option: WAAS
- > 10 Hz update rate
- > Swath to Swath Accuracy 15 in RMS @ 15 minutes
- > Radar simulation output
- > Two serial ports
- > Move quickly from sprayer to spreader to combine
- > Accuracy: 1 meter horizontal RMS



Invicta 210/310

- > Differential Correction Options: US Coast Guard beacon, WAAS, OmniSTAR VBS* (310 only)
- > 10 Hz update rate
- > LCD and membrane keypad
- > Swath to Swath Accuracy 15 in RMS @ 15 minutes
- > Utility features including acreage calculation
- > Radar simulation output
- > Two serial ports communicate up to 38.4 K baud
- > Accuracy: 1 meter horizontal RMS

* Subscription fee at additional charge from OmniSTAR



Phoenix 200

- > Sub-meter, single frequency WAAS only receiver
- > Upgradeable to e-Dif differential correction
- > Utilizes a helix-style antenna to better track satellites low on the horizon
- > Smart antenna - receiver and antenna in a single enclosure
- > Simple installation
- > Easily moved from one machine to another
- > Accuracy: 1 meter horizontal RMS



Phoenix 300

- > Sub-meter dual frequency WAAS and OmniStar VBS*
- > Upgradeable to Decimeter accuracy with OmniStar HP* and XP*
- > Accuracy: 1 meter horizontal RMS with WAAS or OmniStar VBS*
- > Accuracy: 4 inch horizontal RMS with OmniStar HP* and XP*
- > 10 Hz Update Rate
- > Helix-style antenna for satellites low on the horizon

* Subscription fee at additional charge from OmniSTAR







RGL600ic Lightbar

- > Large Display Screen – Instant Access to Swath Number, Swath Error, Course Heading
- > Eight Swath Types
- > Optional Tilt Compensation for Hills
- > Adjustable Lights
- > All-in-One Settings (monitor guidance settings at a glance and make adjustments with ease)
- > Minimized Cabling
- > Slim Line Casing for Easy In-Cab Installation
- > Wireless Remote Control



Envizio Plus

- > AccuBoom - Automatic boom section control
- > Autoboom - Boom height control
- > GPS status screen with the AutoDetect feature
- > Stand alone or interface to existing RGL600
- > Field map review with zoom & vehicle lock
- > Field boundaries to total acres
- > Color Touch Screen interface
- > 2 USB ports for data transfer
- > Data Logging

	<i>SmarTrax</i>	<i>SmarTraxDM</i>
LightBar	Envizio Plus RGL600/T RGL600ic RGL500 	Envizio Plus RGL600/T* RGL600ic RGL500  <small>* Tilt disabled when using a GPS Enhancer</small>
GPS Receiver	Invicta 115 Invicta 210 Invicta 310 Phoenix 200 Phoenix 300 	Phoenix 300 (Using OmniStar HP as correction) 
SmarTrax Controller	SmarTrax controller in Sub-Meter mode 	SmarTrax controller in Decimeter mode
Steering Kit	HydraSteer Kit QuickTrax 	HydraSteer Kit QuickTrax 
GPS Enhancer	N/A	Raven GPS Enhancer used to correct roll, pitch, and yaw of the machine 