RAVEN CRX

Affordable – Scalable – Exceptional Value
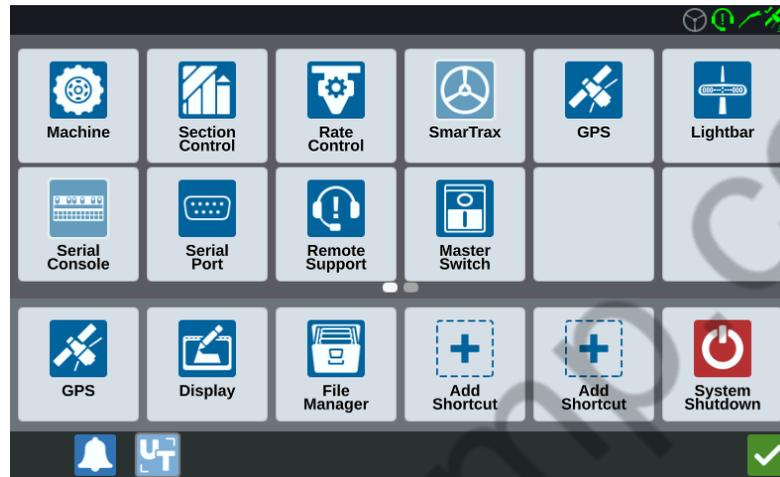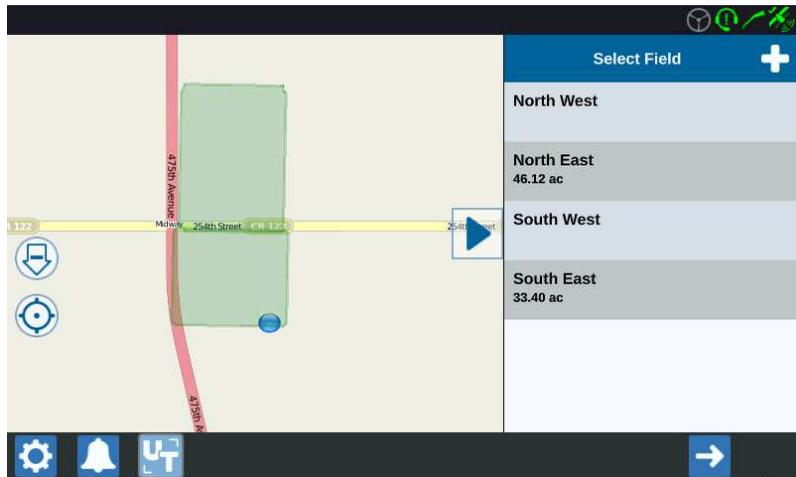
# RAVEN CRX

CUSTOMER FOCUSED EXPERIENCE

- 2 Hardware Platforms 1 simple yet scalable, grower-centric user interface
  - & 12" Display

- 3 Field Computers
  - CR7, 7" Display
  - CR12, 12" Display

- ISOBUS
  - Universal Terminal (UT) included
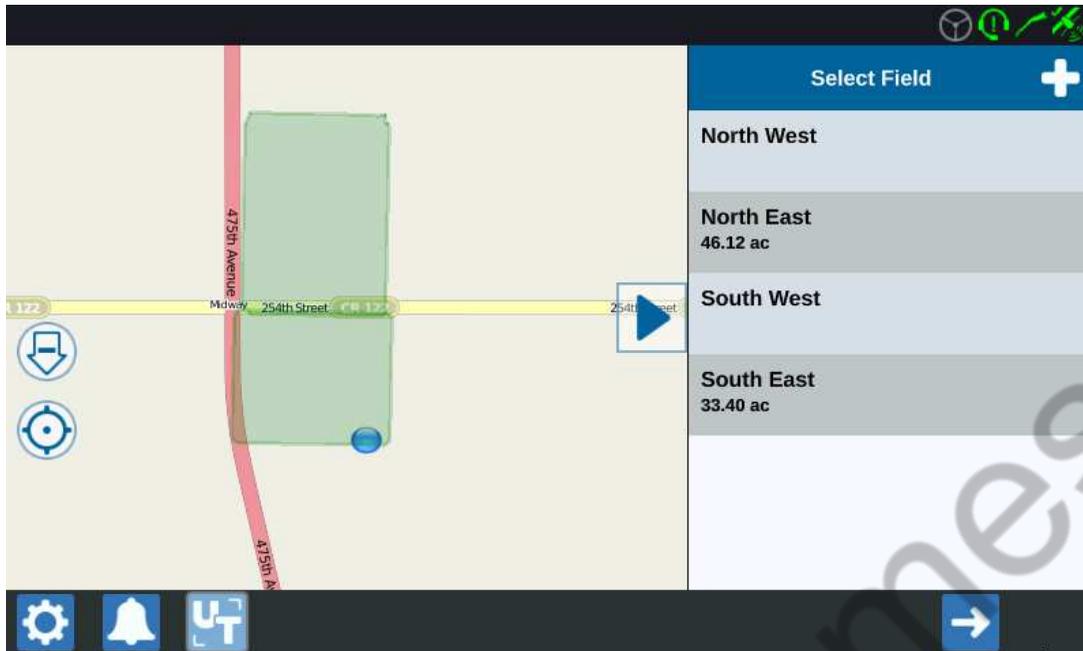 - Task Controller (TC) additional unlock

USER INTERFACE
FOUR MAIN SCREENS

- Map Based Home Screen

- One Settings Page – Accessible from inside job

- Job Run Screen

- ISOBUS Universal Terminal

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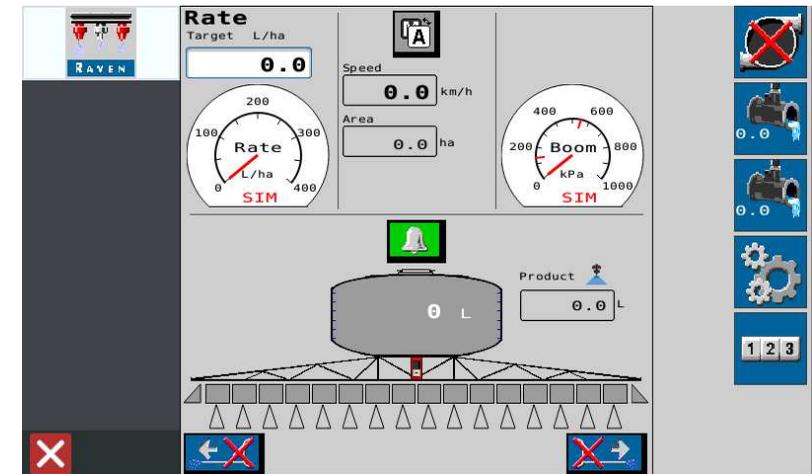
MAP BASED JOB NAVIGATION

- Streetmap background with pinch, zoom, pan
- Auto field boundaries – keep organized automatically
- Interactive Field/Job list and Map view
- Field -> Job Navigation Hierarchy
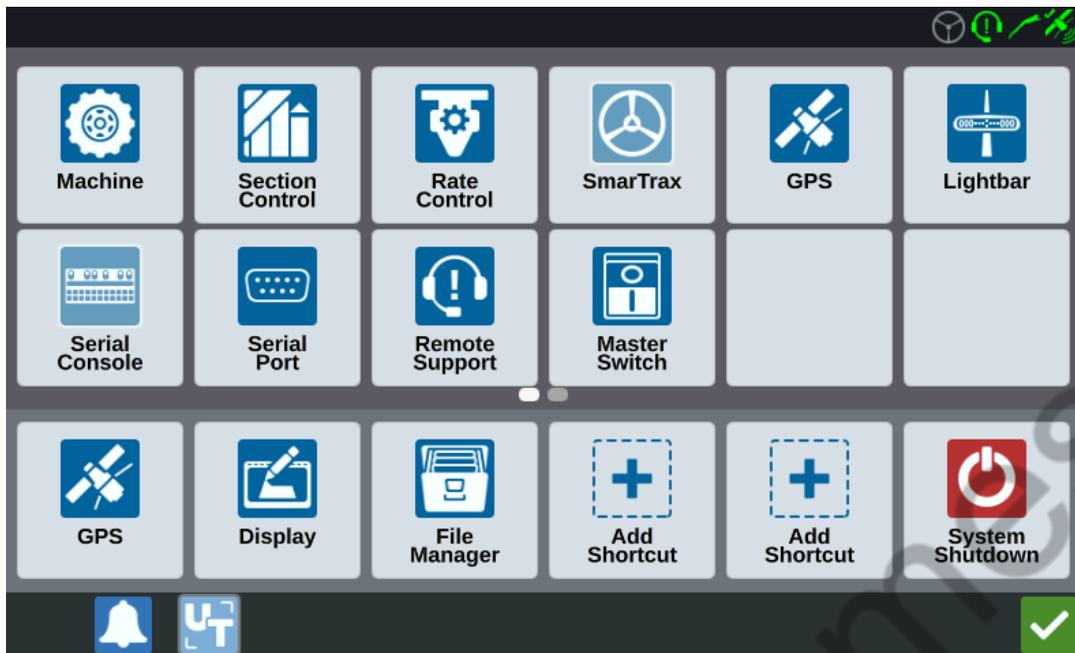 - GFF Meta Data Supported

R A V E N

CUSTOMIZABLE IN-JOB LAYOUT
SIMPLIFIED WIDGET CONCEPT

- One Widget List in Slide in Sidebar
- Widgets are dragged and dropped on screen
- Field Overview and Navigation Views can have separate widget layouts
- Widgets can be minimized
- Ability to access settings page from inside a job

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ACCESSIBLE SETTINGS

- Settings are available from any page for easy access

- Settings options condensed to simplest options possible

- Intuitive layout

- Setup short cuts to most used settings

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FUNCTIONALITY

STANDARD

- Guidance (Straight A-B, A plus heading, Pivot, Contour, Last Pass)

- Auto steering (Hydraulic, steer-ready, Smartrax MD motor)

- ISOBUS Universal Terminal (ISO-UT)

- Section View (max. 10 sections)

- Product Control (max. 5 products)

- Slingshot Remote Support, File Transfer, Software Updates

OPTIONAL (VIA UNLOCK)

- ISOBUS Task Controller with Section Control for >100 sections.

- VRA (max. 2 products)
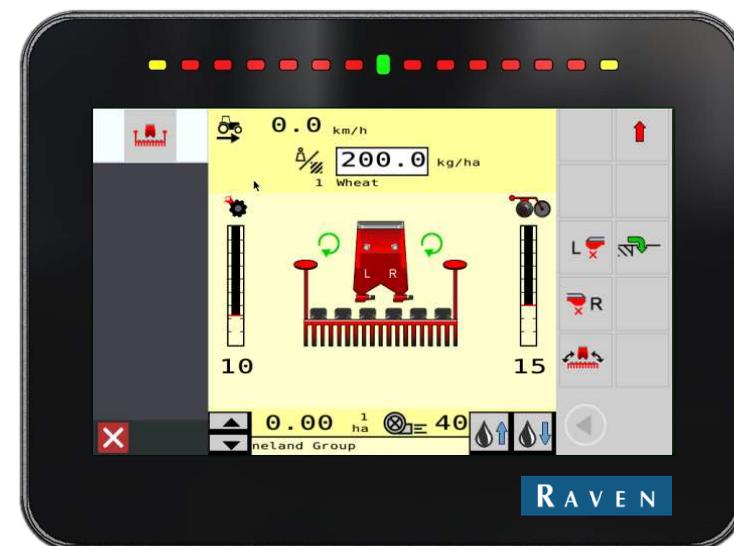
USER INTERFACE

- Flexible layout with widgets

- Night Mode

- Metric support

- Multi-language support *(additional languages on request)*

English	Romanian	Lithuanian
Russian	Serbian	Latvian
German	Bulgarian	Norwegian
Dutch	Hungarian	Polish
French	Czech	Greek
Portuguese	Spanish	Croatian
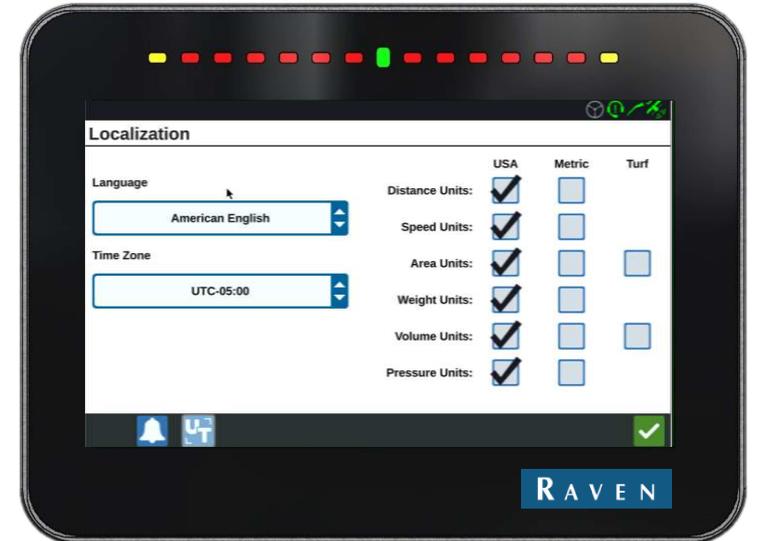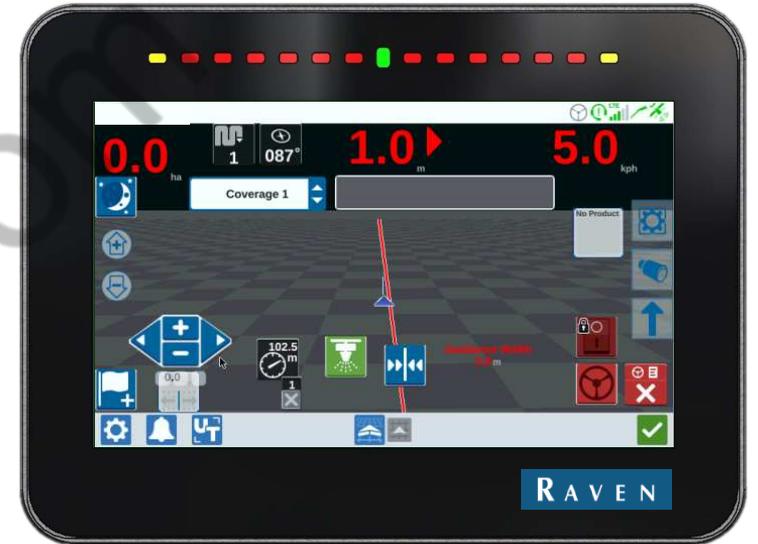
HARDWARE

KEY FEATURES CR7

- IP65 Splash Proof
- Simple base unit cabling
- High brightness Display

- Scratch free Touchscreen
- 7-16VDC input
- External GPS for flexibility

TECHNICAL SPECIFICATIONS CR7

Connections

- CAN x2
- Serial x3
- USB
- Ethernet
- Wi-Fi
- Bluetooth
- Radar Speed Output
- Ignition Sense

Computing

- 8GB Storage
- 2GB RAM
- Quad Core Processor

Display

- Screen Brightness 850 NITS
- 7" Widescreen
- Capacitive Touch
- 480x800 Resolution
- Integrated Lightbar

Power

- 7-16 VDC

Mechanical

- 19 cm x 14,3 cm x 8 cm
- Ram Mounted

Environmental

- IP65

Certifications

- CE
- E Mark

External GPS *(Optional)*

7.53

5.63

3.04

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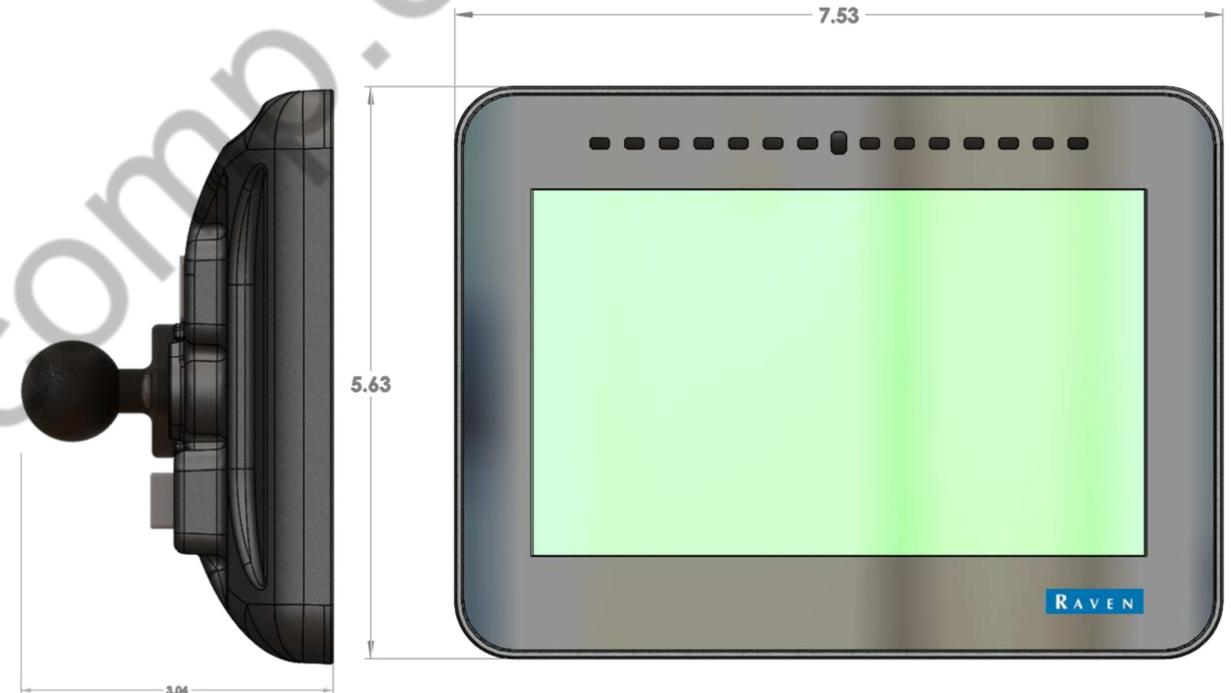
KEY FEATURES CR12

- 12.1" capacitive touchscreen
- IP65 Splash Proof
- High brightness Display

- Scratch free Touchscreen
- 4-35VDC input
- Operations planning
- ISObus and map based navigation

TECHNICAL SPECIFICATIONS CR12

Connections
- CAN 4x
- Serial 5x
- USB 2x
- Ethernet
- Wi-Fi
- Bluetooth
- Radar Speed Output
- Ignition Sense
- 4 camera inputs

Computing
- 30GB Storage
- 1GB RAM
- Quad Core Cortex A9 Processor

Display
- Screen Brightness 2300 CM/M2
- 12,1" Widescreen
- Capacitive Touch
- 1024x768 Resolution

Power
- 4-35 VDC
- Reverse polarity protection

Mechanical
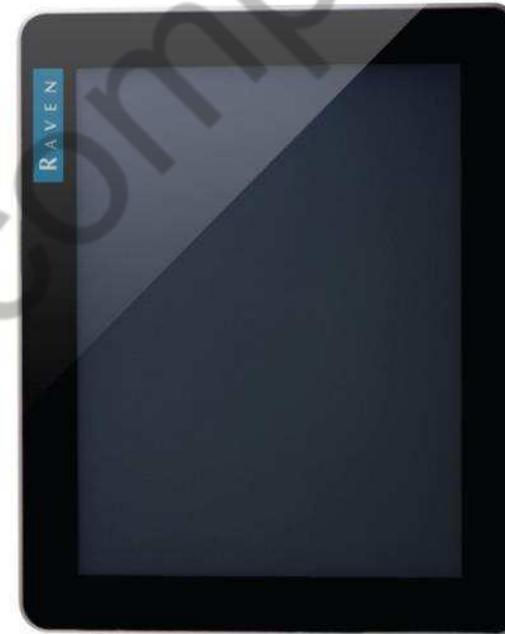- cm x cm x cm
- Ram Mounted
- 2,13kg

Environmental
- IP65

Certifications
- CE
- E Mark

External GPS *(Optional)*

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RAVEN RS1

RAVEN 500S

RAVEN 600S

GPS OPTIONS

RAVEN 500S

- Single Frequency EGNOS receiver (± 25cm)

- GLONASS standard

- E-Dif technology (GPS smoothing filter) improves accuracy especially in regions without EGNOS coverage

- Upgradable to GS Lite, Satellite GS (± 5cm), <u>not</u> RTK

- Both manual guidance and auto steering

RAVEN 600S & RS1

- Dual Frequency EGNOS receiver (± 15cm)

- GLONASS standard

- GLIDE technology (GPS smoothing filter) improves accuracy especially in regions without EGNOS coverage

- Upgradable to GS-Lite, Satellite GS (± 5cm) and RTK. RTK-L available for RS1 only

- Both manual guidance and auto steering

Configuration	EGNOS	Autonomous (Glide/e-Dif)	GS-Lite	Satellite GS	RTK	Steering	ISOBUS
CRx + 500S	S	S	O	O	X	O	O
CRx + 600S	S	S	O	O	O	O	O

S = Standard, O = Optional, X = not available

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GNSS CORRECTION OPTIONS

CORRECTION		REPEATABILITY	PASS-TO-PASS ACCURACY	CONVERGENCE	UNLOCK	SUBSCRIPTION
AUTONOMOUS SOLUTION	Autonomous solution comes standard with all Raven receivers. Usable in areas without SBAS availability.	--	30 cm*	<10 min		
SBAS	SBAS includes area specific differential systems, WAAS and EGNOS. • GLONASS capable • Ideal for broadacre applications	<60 cm	15 cm	5-7 min		
SATELLITE GS-LITE *(500S only)*	Ideal for tillage, broadacre spraying, and fertilizer applications. • Satellite delivery • GLONASS included	50 cm	30 cm*	10 min*	•	•
SATELLITE GS-LITE *(600S, RS1, Viper 4/4+)*		50 cm	30 cm*	<5 min*		•
SATELLITE GS *(500S only)*	Utilizes premium correction data delivery to provide solutions with high accuracy and quick re-convergence in areas with loss of correction stream. • Corrections delivered via satellite direct to end user • No base station infastructure required, simplifing equipment needs	5-10 cm	5 cm	<30 min		•
SATELLITE GS *(600S, RS1, Envizio Pro II, Phoenix 300 w/USB, Viper 4/4+)*		5-10 cm	5 cm	<20 min	•	•
SLINGSHOT RTK *(600S, RS1, Envizio Pro II, Phoenix 300 w/USB, Viper 4/4+)*	The most accurate, GNSS correction source available from Raven. • Sub-inch accuracy and repeatability and faster convergence times • Base station or CORS network required	2.5 cm	2.5 cm	< 5 min	•	•
RTK-L *(RS1 only)*	Receiver can maintain centimetre-level positioning accuracy for outages in RTK correction messages (i.e. loss of cellular or radio connection). • Provides RTK level accuracy for up to 20 minutes of correction outage • Operates seamlessly in the background	--	--	< 30 min		•

RTK-L
RTK FALL BACK

IDEAL

Position

Intended Path

change to
lower accuracy
solution

change to
higher accuracy
solution

Position

Intended Path

change to
lower accuracy
solution

change to
higher accuracy
solution

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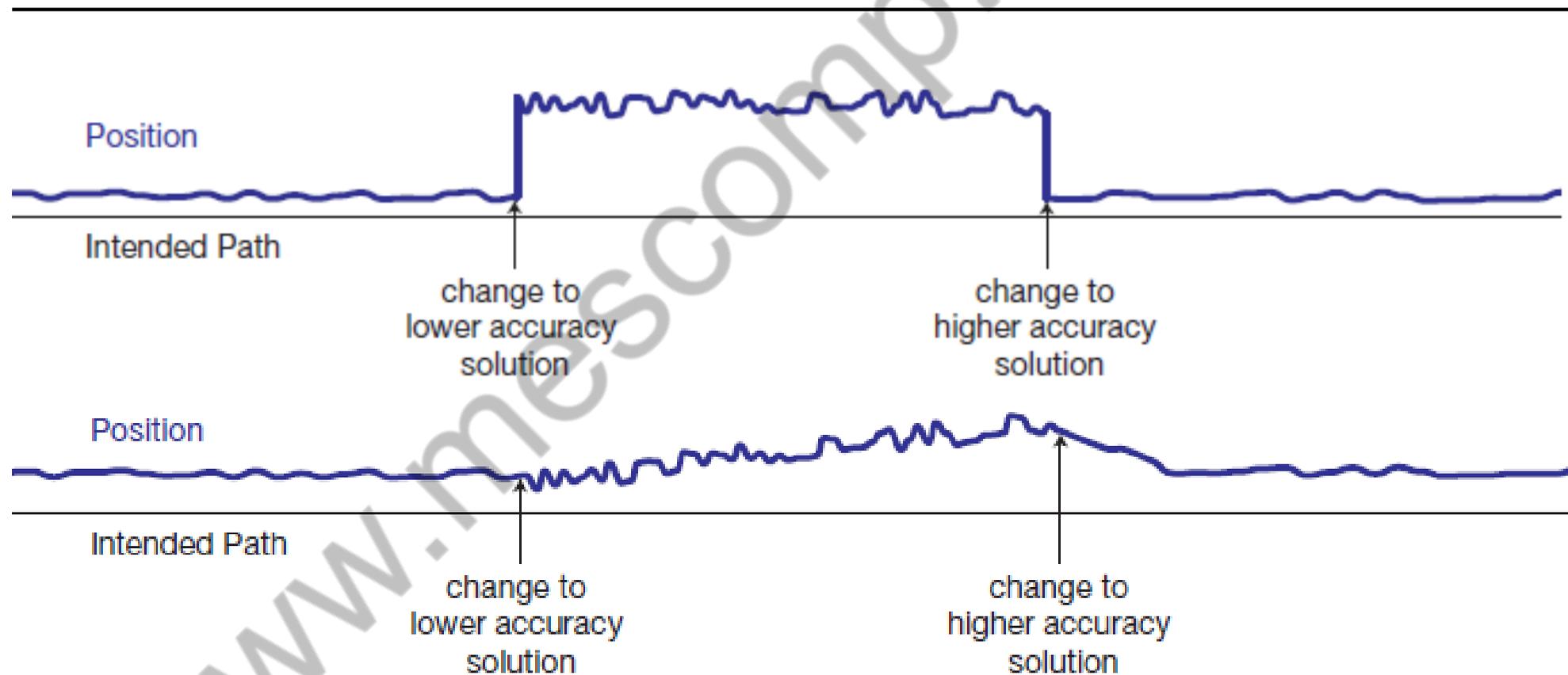
GPS FEATURES AND OPTIONS
PRICES

| Part Number	Description	List Euro
1-077-0180-236	CODE, AUTH UPGRADE 500S GS-LITE	€870
1-077-0180-245	CODE, AUTH SUBSCRIPTION 3MON GS 500s	€480*
1-077-0180-237	CODE, AUTH SUBSCRIPTION 1YR GS 500s	€1110*
1-077-0180-238	CODE, AUTH SUBSCRIPTION 3YR GS 500s	€3030*
1-077-0180-239	CODE, AUTH SUBSCRIPTION 5YR GS 500s	€4725*
1-077-0180-137	CODE, AUTH SATELLITE GS 3 MONTH 600s –RS1	
1-077-0180-139	CODE, AUTH SATELLITE GS 1 YEAR 600s – RS1	€825*
1-077-0180-156	CODE, AUTH SATELLITE GS 2 YEAR 600s – RS1	
	CODE, AUTH SATELLITE GS 3 YEAR 600s – RS1	
	CODE, AUTH RTK-L YEAR RS1	

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STEER READY

SMARTRAX MD
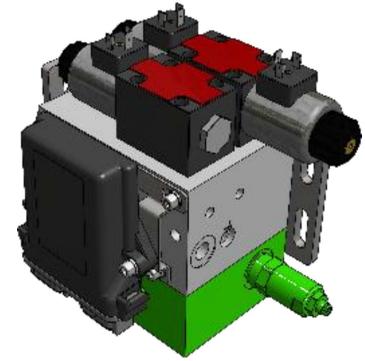
HYDRAULIC

STEERING OPTIONS

AUTO-STEERING
FEATURES

- Speed ranges
  - EGNOS, Satellite GS   0,54 km/h
  - RTK   0,072 km/h

- High quality 3D gyro module

- Continuous reverse steering

- Improved steering performance

- Improved line acquire
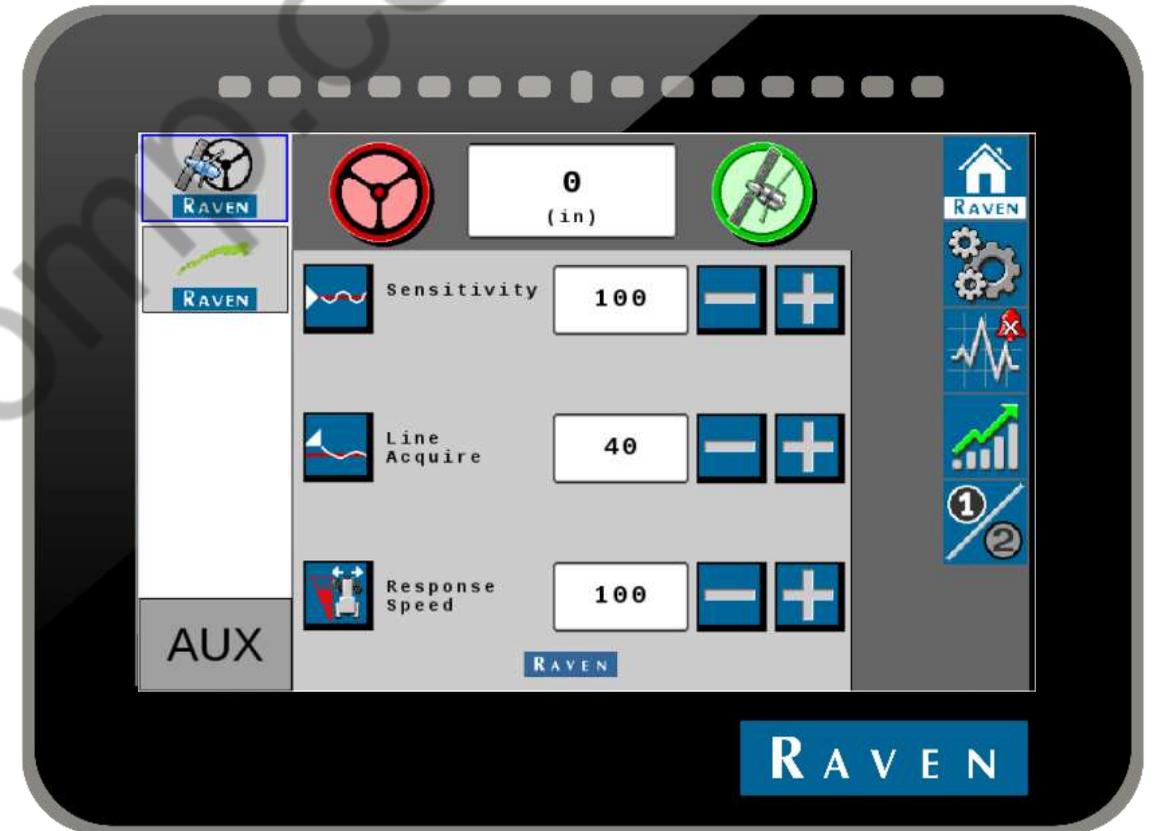
STEER-READY
SUPPORTED PLATFORMS

- NH IntelliSteer
- Case AccuGuide
- Steyr S-Tech
- John Deere Autotrac Ready
- Fendt VarioGuide
- MF AutoGuide
- Valtra AutoGuide
- Challenger(Fall 2019)
- Deutz Fahr AgroSky(Spring 2019)
- Claas Autopilot(Spring 2019)
- Agrifac
- Amazone
- JCB(Spring 2019)

SMARTRAX MD
THE FLEXIBLE STEERING SOLUTION

- High torque for faster operating speeds, line acquisition and online performance

- Machine specific installation kits

- Original steering wheel

- Easy exchange between vehicles

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PRICING

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PRICING – CR7 ISOBUS CONFIGURATIONS

Part description	Price	Tractor with 9-pin ISO in-cab connector		tractor without Isobus cabling	
CR7 display with ISO-VT	€ 1.350	1	€ 1.350	1	€ 1.350
Installation kit CR7	€ 255	1	€ 255		
Cable CR7 to 9P In-Cab ISO	€ 100	1	€ 100		
Manual guidance kit	€1325			1	€ 1325
Total:			€ 1.705		€ 2.675
Options:					
ISO TC unlock	€ 740				
+ 500S Antenna(in kit)	€ 500				
+ 600S Antenna(In kit)	€ 1.600				