STONEX

STX-AG200/300

Steering Systems for Agricultural Machines

STONEX
MACHINE CONTROL

STX-AG200/300

Steering Systems

AGRICULTURE SOLUTIONS

Stonex Agricultural Machinery Guidance System are designed with efficiency and productivity in mind. Installation and use are easy and user friendly, and the intuitive software allows you to easily set all the necessary parameters to drive the machines in the field as needed.

Stonex offers two systems: one visual and the other automatic. In both systems, you can configure various routes and maneuvers, ensuring maximum flexibility.

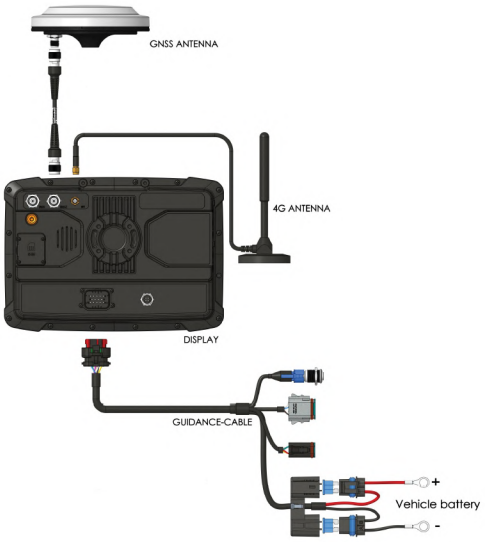
Precision positioning GNSS antennas guarantee excellent maneuvering accuracy, taking your farming experience to the next level of control and reliability.

STX-AG200 | Visual

STX-AG200 is a facilitated visual guidance system for agricultural machines.

Thanks to the dedicated software it is possible to set and monitor the vehicle's route efficiently and precisely. The software allows to choose one of the predefined routes, and various work modes are available. The GNSS antenna connected to the system allows precision positioning and therefore reduces the risk of route errors.

The operator only needs to follow the path defined by the software.

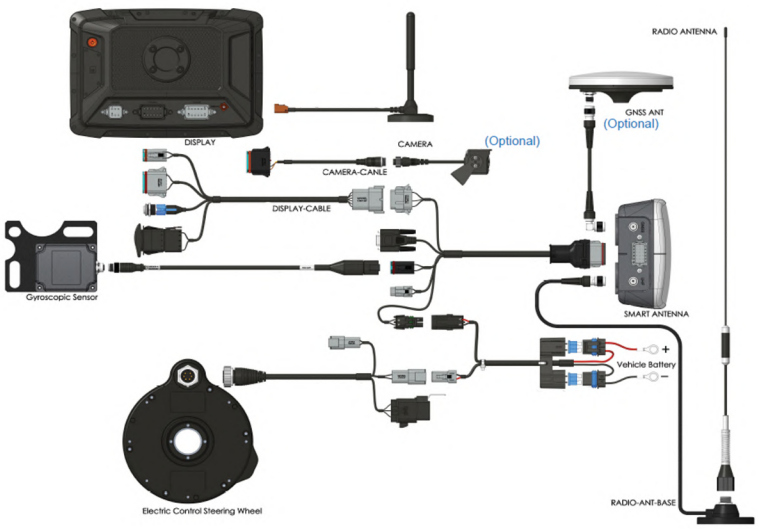


STX-AG300 | Auto Steering

The STX-AG300 is an automatic driving system that allows you to avoid making mistakes when driving machines in the field.

Thanks to the electric sensor installed on the steering wheel, the operator will no longer have to maneuver the vehicle independently, but will be assisted entirely by the system.

Route planning can be carried out directly in the software, the system will therefore be able to act autonomously, guaranteeing centimeter precision thanks to the GNSS antennas connected to the system.



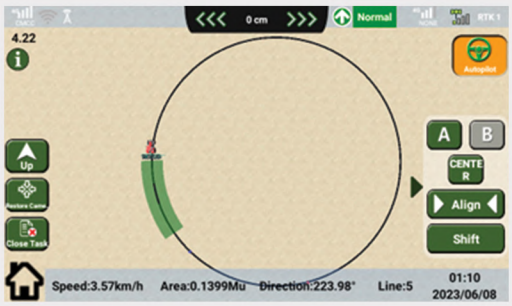
STONEX PRECISION FARMING

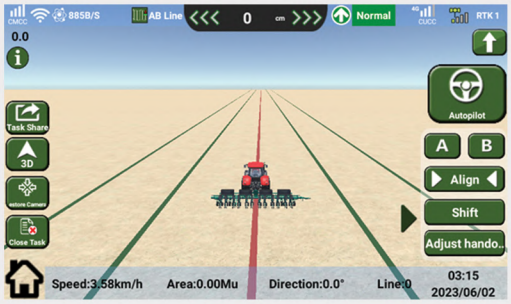
MAIN FEATURES

- Autopilot accuracy: ±2.5cm
- Straight handover line: ±2.5cm
- Line-in distance: <10 meters
- Operating speed range: 0.1km/h to 18km/ h
- Communication protocol: NMEA 2000, ISO 11783, J1939
- Differential data format: RTCM3.2 (downward compatible), CMR, ROX (custom)
- Protection level: main electrical components are IP65 and above.

ADVANTAGES

Universal system: Suitable for various types of agricultural machinery including tractors, transplanters, sprayers, combine harvesters etc.
Easy installation: No need to change the hydraulic circuit you can quickly install or remove it from a machine in just 15 minutes, allowing you to quickly remove it from one agricultural machine and install it on another.





Operation modes include:
AB Line mode, A+ Line mode, Pivot mode, Grid mode, Contour mode, Land measurement mode and Transplanting mode (latter is available only for STX-AG300)

TECHNICAL FEATURES

Tablets Features - AG200 & AG300 Solutions

SYSTEM	AG200	AG300
Operating System	Android	
Screen Size	10.1”	
Brightness	600 nits	
Touch Panel	Capacitive multi-touch Support wet and glove operations	

DATA COMMUNICATION	
Network	4G: Quectel EC200NC NAA -N05-SNNSA.CAT1 LTE LTE-FDD: B1/B3/35/B8 LTE-TDD: B34/B38/B39/B40/841 GSM: B3/B8
Bluetooth	4.0
Wi-Fi	IEEE 802.11 b/n/g 2,4 GHZ

INTERFACE	AG200	AG300
Communication ports	1 standard SIM 1 E-SIMM 1 MicroSIM 1 USB type A 1 MicroUSB 2 TNC (GNSS / radio) 1 SMA (4G) 1 14-Pins port	2 12-Pins port 1 6-Pins port 1 WWLAN

POWER SUPPLY		
Voltage	7 - 36 V	9 - 32 V

PHYSICAL SPECIFICATIONS		
Operating Temperature	-20°C to +70°C	
Storage Temperature	-40°C to +85°C	
Waterproof/Dustproof	IP65	IP67
Shock Resistance	EP455 section 5.14.1	
Humidity	95% RH non-condensing	

GNSS Receiver - AG300 Solution

RECEIVER	
Signals Received	GPS: L1C/A,L2P,L2Y,L2C,L5 BDS: B1I,B2I,B3I GLONASS: L1,L2 Galileo: E1,E5a,E5b QZSS: L1,L2,L5 SBAS: L1/L5 L-Band
Maximum Positioning data update	20Hz
Signal Reacquisition	< 5 s

POSITIONING	
Single Point Accuracy (RMS)	Flat: 1.5m Elevation: 2.5m
RTK Accuracy (RMS)	Flat: 8mm + 1ppm Elevation: 15mm + 1ppm
Orientation Accuracy (RMS)	< 0.2°@1.0m Baseline

COMMUNICATION	
Radio	410 ~ 470MHz
4G	EC200N-CN

INTERFACE	
Connectors	3 x RS232 serial port 2 x CAN (GB/T 35381.2-2017) 18 Core Square Connector
GNSS / Radio	TNC x 1

POWER	
Voltage	9 ~ 32 V DC
Reverse Polarity Protection	Supports 28V Polarity Reverse Connetion
Overvoltage Protection	Support 36V

PHYSICAL SPECIFICATION	
Dimensions	160L × 160W × 78H mm
Weight	1380 g
Operating Temperature	-40°C to 70°C
Storage Temperature	-40°C to 85°C
Waterproof/Dustproof	IP67
Shock Resistance	EP455/5.14.1
Vibration	EP455/5.15.1
EMC	ISO 14982/6.4/6.5/6.6/6.7

Illustrations, descriptions and technical specifications are not binding and may change

STONEX AUTHORIZED DEALER

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