

STEC

AUTO STEERING SYSTEM

AgriPilot **AP10**



AUTO STEERING SYSTEM

AgriPilot AP10

AgriPilot AP10 is a compact, modern automated steering solution engineered for quick and straightforward installation on a wide range of farm tractors and vehicles.

From software and hardware to precision farming services, **AgriPilot AP10** delivers a comprehensive range of technologies tailored to meet the needs of your farm.

From ploughing, ridging and ditching to seeding, spraying and harvesting, it adapts seamlessly to the demands of each task. Its versatile performance across various implements and field patterns makes it an ideal solution for farms seeking Precision-optimized results throughout the entire farming cycle.

2.5cm Pass-to-pass Accuracy

Achieving 2.5cm high-precision positioning, it integrates RTK, built-in IMU, motorized steering and Optimized algorithm. This combination effectively overcomes the challenges of complex terrain, significantly enhancing operational accuracy.

Equipped with advanced connectivity features, including built-in 4G, Wi-Fi, Bluetooth, and radio modules, **AgriPilot AP10** ensures high-precision operations through diverse and stable data connectivity, maintaining accuracy whether networks are available or not.

Engineered for Durability and Proven Reliability

Powered by an automotive-grade chipset, an alloy-reinforced structure, an anti-vibration design, and advanced thermal management with robust EMI shielding, the system delivers exceptional reliability in demanding field conditions.

With IP67-rated protection and wide temperature tolerance (-30°C to 70°C), it ensures stable, consistent performance even in the harshest environments.



2.5cm Accuracy



GNSS+INS Terrain Compensation



Intuitive Interface



GUIDANCE CONTROL GC10

WiFi, Bluetooth, built-in UHF and 4G module. Anti-vibration design. Aluminum alloy base plate.

DISPLAY GT10

10.1 inch, 1000 nits. Full aluminum-alloy casting. Glove touch, wet-hand operation available in any weather, in any time.

STEERING WHEEL GW10

Electric, hands-free, automated.



Intuitive Interface

Streamlined visuals with multi-angle 3D models, calibration-free operation, and one-touch design for effortless user adoption.

Advanced Operation Modes

Manage all tasks on a 10.1" industrial display with an intuitive interface, easily help you accurately monitor and check the information in real time.

Precision Navigation

Proprietary heading recognition algorithm and tilt compensation prevent guidance loss while enhancing slope/curve performance.

Fully Assistance

AgriPilot AP10 is equipped with an integrated camera system that automatically activates the rear-view feed when reversing, enhancing safety and visibility.

The system also supports both physical buttons and a Bluetooth remote control, offering users maximum convenience and flexibility in various working environments.

AgriPilot AP10 features a standard-integrated wheel angle sensor, delivering enhanced steering precision while boosting performance across both high- and low-speed operations.



Precision Steering Made Simple

AgriPilot ensures your vehicle - whether a tractor, sprayer, or more, regardless of field pattern or terrain, allowing you to concentrate on your job.



Ploughing



Ridging



Spraying



Seeding



Laminating



Ditching



Planting



Harvesting

AgriPilot



Guidance Control - GC10

GNSS	BDS: B1I, B2I, B3I, B1C, B2b GPS: L1C/A, L2C, L2P(Y), L5 GLONASS: G1, G2 Galileo: E1, E5a, E5b, E6 QZSS: L1C/A, L2C, L5 SBAS: L1C/A
Accuracy	
Real-time Kinematics	Horizontal: ± 8 mm + 1 ppm RMS Vertical: ± 15 mm + 1 ppm RMS
PPP	Horizontal: ± 5 cm Vertical: ± 10 cm
Pass-to-pass Accuracy	$\leq \pm 2.5$ cm
Communication	
Cellular	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/ B12/B13/B18/B19/B20/B25/B26/ B28 LTE-TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8
Radio	410-470MHz, 1W Transceiver, Supports Traditional Radio Protocols and Lora Communication
Bluetooth	BT2.1+EDR/3.0/4.1LE/4.2BLE
WiFi	802.11 a/b/g/n/ac
Sim Card	Support
TF Card	Support
CAN Interface	Support
RS-232 Interface	Support
General	
Storage	Internal Memory 8GB; Up to 128GB with Micro SD card
Power Supply	9-36V
Size	142mm*126mm*67mm
Weight	963g
Operating Temperature	-30 °C to +60 °C
Storage Temperature	-40 °C to +80 °C
Dust and Waterproof	IP67
Humidity	5%-95 %, No Condensation

Display - GT10

Interface	
Screen Size	10.1" Touch Screen
Resolution	1280 × 800 pixels
Brightness	1000 Nits
Keys	1 Button, 3 Indicator Lights
System	
Operating System	Android 11, Octa-core 2.0GHz
RAM	3GB LPDDR4X
Storage	Internal Memory 32GB, Up to 512GB with Micro SD card
Communication	
Cellular	GSM: 850/900/1800/1900 WCDMA: B1/B2/B4/B5/B8 LTE-TDD: B38/B39/B40/B41 LTE-FDD: B1/B2/B3/B4/B5/B7/B8 /B12/B13/B17/B20/B28
Bluetooth	BT2.1+EDR/3.0/4.1/4.2/5.0 BLE
WiFi	2.4G/5G, 802.11 ac/a/b/g/n
Sim Card	Support
TF Card	Support
General	
Power Supply	9-36V
Size	275mm*188mm*34mm
Weight	1300g
Operating Temperature	-30 °C to +60 °C
Storage Temperature	-40 °C to +80 °C
Dust and Waterproof	IP67
Humidity	5%-95 %, No Condensation

Steering Wheel - GW10

Rated Torque	7N·m @ 12V DC
Max RPM	120 RPM
Power Supply	9-32V
I & O	8 Pin Connector, Support 1 FD CAN
Size of Motor	ø182mm*70.5mm
Weight	5600g
Size of Steer Wheel	D: 400 mm
Operating Temperature	-30 °C to +70 °C
Storage Temperature	-40 °C to +85 °C
Dust and Waterproof	IP65