



# TERSUS

# AG992-PRO

## AUTO-STEERING SYSTEM

THE NEW-GENERATION PRECISION AG TECHNOLOGY



# THREE MAIN PARTS

The TERSUS AG992-Pro Auto Steering System is a high precision automatic steering system which works with TERSUS latest TAP service. With TAP , the auto steering system will not need to work with the local RTK base station or CORS, but directly receives corrections broadcast by the satellites.

The system integrates the advantage of easy installation, large torque, high precision, low noise, low heat and quick debugging. It is compatible with 95% tractors and can be widely used for different field works like harrowing, sowing, spraying and harvesting.



## Electric Steering Wheel

Compatible with mainstream Tractors

Size  
Supply voltage  
IP Rating

410mm  
6V~18V DC  
IP65



## Control Terminal

10.1" touch screen; Built-in WiFi, Bluetooth;  
Displays real-time task status

Size  
Screen  
Power  
Operating and Storage temperature  
IP Rating

281x181x42mm  
10.1" Capacitive Touch Screen,  
9V~36V DC  
-40°C~+70°C  
-45°C~+80°C  
IP67



## GNSS Antenna

Modular design;  
Obtains position, orientation transmits the info to the control terminal

Frequencies  
Size  
Operating and Storage temperature  
IP Rating

GPS; GLONASS; BeiDou; Galileo;  
QZSS; SBAS; IRNSS; L-Band  
152x62.2mm  
-40°C~+85°C  
-55°C~+85°C  
IP67

# FEATURES



## Supports multiple constellations and frequencies

GPS; GLONASS; BeiDou support BDS-3; Galileo; QZSS; SBAS supports WAAS, EGNOS, GAGAN, SDCM, MSAS; L-band



## Auto-steering error less than 2.5cm



## Satellite-based PPP service (Tersus TAP)



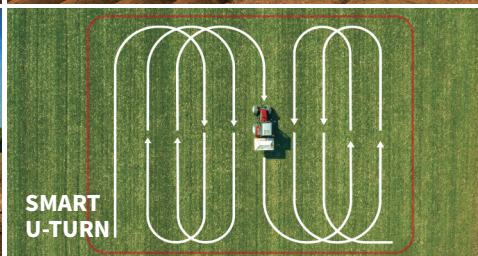
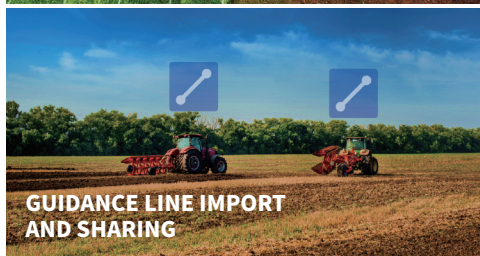
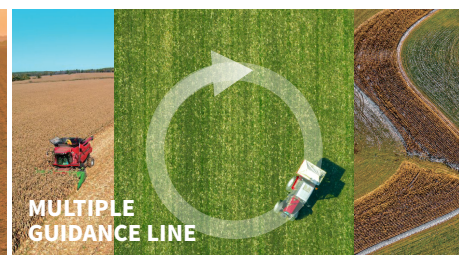
## Simple & Fast installation



## 10.1" touch screen control terminal



## Easy & Quick calibration procedures



# AG992-PRO TERSUS TAP (PPP) SERVICE

## TERSUS TAP

TAP is a satellite-based precise point positioning service developed by Tersus GNSS, which allows users to achieve centimeter-level high-precision positioning worldwide.



### High-performance global solution

Enjoy 15mm horizontal and 30mm vertical accuracy in just 3 minutes worldwide.

### The security and simplicity

Quick and secure access, with one-way data transfer of corrections to your receiver.

### High-availability & Redundancy

With redundant backups for all hardware and broadcast paths, ensure over 99.99% service availability.

### Seamless subscriptions

Remote one-click activation, with flexible subscription durations to suit your application needs.



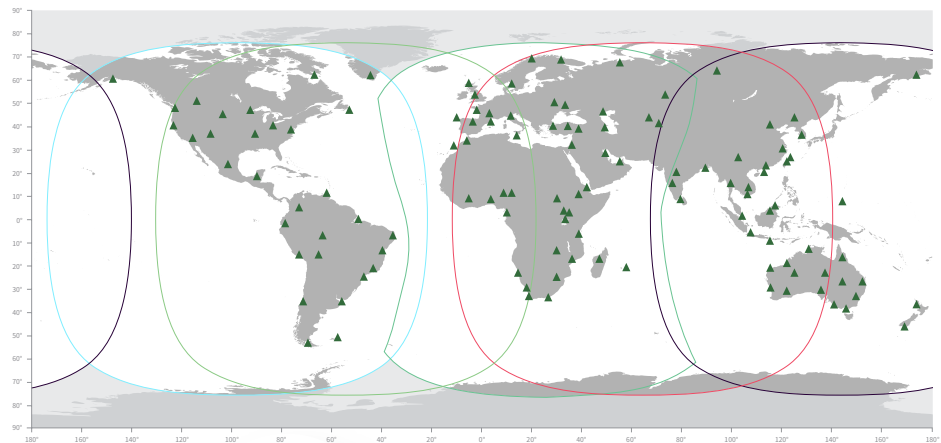
Real-time via L-band from satellite



Global coverage



Stable coordinate frame

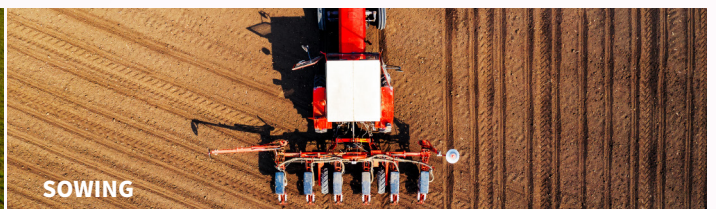


7\*24H



±2.5cm Accuracy

## APPLICATION SCENARIO



# TECHNICAL SPECIFICATIONS



## AG992-PRO

### T100 Control Tablet

#### System

Operating System: Android 6.0 / 9.0  
LCD: 10.1" Capacitive Touch Screen

#### Electrical & Physical

Power Input: 9V~36V DC  
Dustproof & Waterproof: IP-67  
Dimension: 281mmx181mmx42mm  
Weight: 1.36kg

### EMS5 Motor Wheel

#### Motor Performance

Rated torque: 10 N·m (typical)  
Supply voltage: 6V~18V DC

#### Physical

Dimension:  $\phi$  178x81mm (Motor)  
 $\phi$  410x32mm (Steering Wheel)  
Weight: 5.25kg (Motor only)  
6.35kg (Motor and Wheel)

### David30-TAP GNSS Receiver

#### Performance

Frequencies: GPS; GLONASS; BeiDou(supports BDS-3); Galileo; QZSS; SBAS; L-band  
Real Time Kinematic, RTK (RMS):  
Horizontal: 8mm+1ppm  
Vertical: 15mm+1ppm  
Timing Accuracy (RMS): 20ns  
Velocity Accuracy (RMS): 0.03m/s  
TAP positioning accuracy (RMS): <2.5cm  
TAP convergence time: 3 minutes  
TAP coverage: Global  
TAP signal stability: 99.99%  
Initialization reliability: >99.99%

#### Electrical & Physical

Input voltage: 5 ~ 36V DC  
Power consumption: 3.6W (typical)  
Dimension: 124x79.5x37mm  
Weight:  $\approx$ 360g  
Dustproof & Waterproof: IP-67



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To learn more, please visit: [www.tersus-gnss.com](http://www.tersus-gnss.com)  
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