TERSUS GNSS

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	410mm
Supply Voltage	6V~18V DC
IP Rating	IP65

Control Terminal

10.1“ touch screen; Built-in WiFi, Bluetooth;

Displays real-time task status

Size	281x181x42mm
Screen	10.1'Capacitive Touch Screen,
Power	9V~36V DC
Operating and Storage Temperature	-40 °C~+70°C -45°C~+80°C
IP Rating	IP67

GNSS Antenna

Modular design;

Obtains position, orientation transmits the info to the control terminal

Frequencies	GPS; GLONASS; BeiDou; Galileo; QZSS; SBAS; IRNSS; L-Band
Size	152x62.2mm
Operating and Storage Temperature	-40°C~+85°C -55°C~+85 °C
IP Rating	IP67

FEATURES

Supports multiple constellations and frequencies

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

Satellite-based PPP service (Tersus TAP)

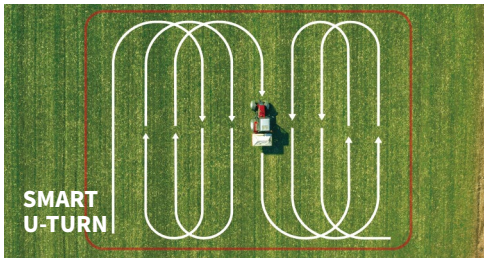
10.1" touch screen control terminal

Auto-steering error less than 3cm

Fast installation in 30 minutes

Calibration in 15 minutes

Quick start in 5 minutes



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.

Worldwide coverage

With worldwide coverage, it can be used as long as there is a good vision.

No need local RTK base station or CORS

Directly receives corrections broadcast by the satellites. Broadcasting over the internet is available as a backup method for data delivery for all users.

High signal stability

Guarantees uninterrupted transmission for 24 hours a day.

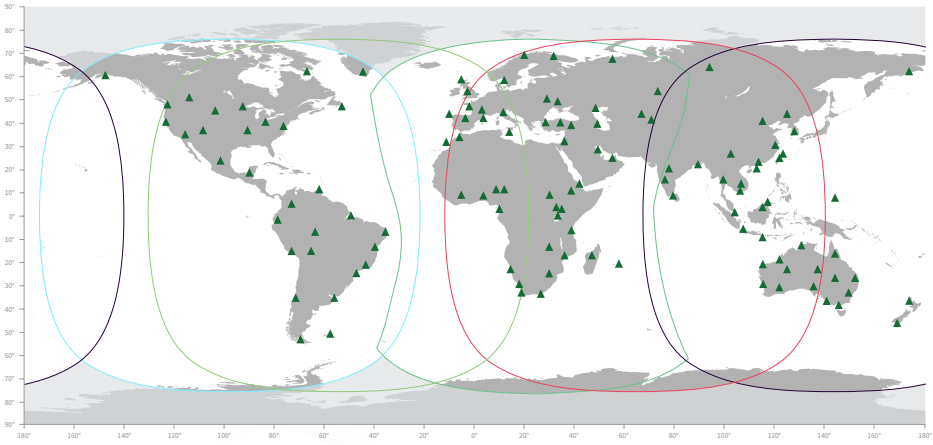
Wide range of applications

It can be widely used in autonomous driving, precision agriculture, and disaster monitoring and so on.

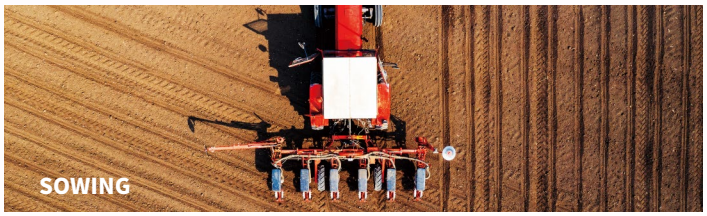
Real-time via L-band from satellite

Global coverage

Stable coordinate frame



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:	ϕ 178x81mm (Motor)
	ϕ 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):	<3cm
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:	≈360g
Dustproof & Waterproof:	IP-67

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