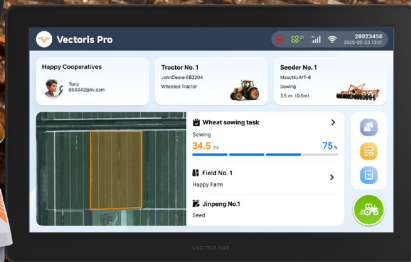


# HD 818 Auto Steering System



BEYOND GUIDANCE, DRIVING INTELLIGENT AGRICULTURE



## Product Overview

The HD818 Auto Steering System is Vector AGR's cutting-edge platform, engineered for the future of large-scale and smart agriculture. Designed to excel in professional and highly efficient farming operations, it integrates GNSS high-precision positioning, vision-based navigation, and implement guidance into a seamless workflow, delivering end-to-end precision from field operations to full farm management. More than just a standalone auto steering system, the HD818 serves as an open and scalable precision agriculture platform, capable of meeting a wide range of smart farming needs, current and future.

## Key Advantages



### High Compatibility

Operates within a speed range of 0.1 - 25 km/h, adaptable to various brands and models of tractors, harvesters, and self-propelled sprayers. Supports multiple steering types, including front wheel steering, rear wheel steering, articulated, and tracked vehicles.



### Intuitive User Experience

Equipped with the new Vectoris Pro navigation control software—designed specifically for farm operations—it offers powerful functionality and smooth performance. Paired with a 14-inch ultra-large display terminal, it significantly enhances automated operation efficiency and user interaction.



### Multiple Signal Solutions

Stay connected all day long with support for Radio, Ntrip, Galileo-HAS, B2b-PPP, L-Band, and other differential signals.



### Cloud Data Integration

Enables seamless data synchronization and transmission with the HD Digital Agriculture Platform and other Vector AGR equipment, improving operational transparency and information efficiency.



### Expandable Smart Implements

Easily integrate smart tools like variable-rate sprayers and land leveling system—reduce hardware costs and free up cabin space.



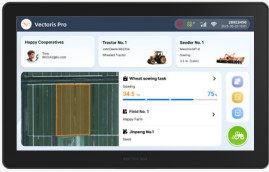
### Broad Protocol Compatibility

Supports ISOBUS, NMEA-0183, NMEA-2000, Radar Output, and Pulse Output, ensuring adaptability across various implements and field scenarios.



# Components

## Standard Configuration :



14-Inch Display Terminal



GNSS Receiver



Electric Steering Motor



Rear Camera

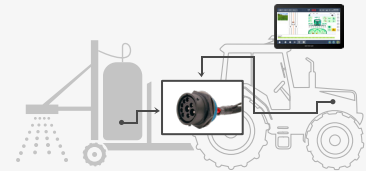
## Optional Upgrades



Multi-Function Joystick



360° Surround View



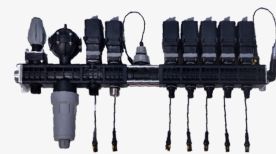
ISOBUS



Land Leveling System



Visual Guidance



Smart Spraying System

# Product Specification

## Display Terminal

Input Voltage	9-36 V DC	Resolution	1920*1080
Processor	Cortex-A73 + Cortex-A53 8-Core	Brightness	800 nits
Storage	8 GB LPDDR4 + 64 GB eMMC	Dimensions	L 350.5 *W 220 *D 32.5 (mm )
Operation System	Android 14.0	Weight	2 kg
Wi-Fi	2.4G + 5G, IEEE 802.11 a/b/g/n/ac	Hard Buttons	Power Button Only
GSM	Global 4G	Speaker	Integrated Speaker*2
Bluetooth	BT5.0 (BR/EDR + BLE)	Ingress Protection	IP67
Camera	720P x 2	Operating Temperature	-20°C ~ +70°C
Size	14" LCD	Storage Temperature	-30°C ~ +80°C
Touch Screen	Capacitive Touch Screen, 10 Points Touch		

## GNSS Receiver

Input Voltage	9.6-14.4 V DC	Dimension	L 182.8 *W 175 *D 71 (mm )
Satellites Tracking	GPS: L1 C/A, L1C, L2C, L2P, L5C GLONASS: L1OF, L2OF, L3OC BeiDou: B1I, B2I, B3I, B1C, B2a, B2b Galileo: E1, E5a, E5b, E5AltBOC, E6 QZSS: L1 C/A, L1C, L2C, L5C SBAS: L1 C/A, L5 IRNSS: L5 L-Band	Weight	0.8 kg
Horizontal Positioning Accuracy	Single: < 1.5 m (RMS) DGNSS: < 0.4 m (RMS) RTK: 8 mm+1 ppm (RMS)	Operating Temperature	-20°C ~ +70°C
		Storage Temperature	-40°C ~ +85°C
		Ingress Protection	IP67
		Frequency Range	410 ~ 470 MHz
		Channel Spacing	25 KHz
		Protocol	TRIMATLK, TRANSEOT, TRIMMARK3

## Electric Steering Motor

Working Voltage	9-18 V DC	Operating Temperature	-25°C ~ +60°C
Output Torque	7 N·m	Storage Temperature	-40°C ~ +70°C
Maximum Output Torque	15 N·m	Ingress Protection	IP65
Nominal Power	50 W	Maximum Rotation Speed	100 RPM
Motor Dimensions	MIN: $\phi=181.5\text{mm}$ MAX: $\phi=250\text{mm}$ H=54mm	Steer Wheel Dimensions	$\phi=390\text{mm}$ H=60mm

Heilongjiang Huida Technology Co., Ltd.

✉ marketing@vectoragr.com 🌐 <https://www.vectoragr.com>



Vector AGR 🔍

