

## STEERING PERFORMANCE

Steering Accuracy	± 2.5cm
Operation Mode	Straight, Curve, U-turn, Path, 90°

## T10 GNSS Tablet

### GNSS

GPS	L1C/A, L2P (Y), L2C, L5
GLONASS	G1, G2
BDS	B1I, B2I, B3I
Galileo	E1, E5a, E5b
QZSS	L1, L2, L5
RTK Accuracy	H: 8mm+1ppm V: 15mm+1ppm
Data Format	RTCM V3.X, NMEA-0183
Data Output Rate	Maximum 20Hz

### SYSTEM

Operation System	Android 6.0
CPU	Quad Core 1.5GHZ
Memory	2GB RAM+16GB ROM
Flash	T flash, up to 64GB

### LCD DISPLAY

Screen	10.1" screens with sun readable capacitive touch screen
Resolution	1024×600 pixels

### COMMUNICATIONS

WIFI	2.4GHz IEEE 802.11 a/b/g/n
4G	FDD-LTE (Band 800 / 1800 / 2100 / 2600 MHz) TD-LTE (Band 1900 / 2300 / 2500 / 2600 MHz) WCDMA (Band 850 / 900 / 1900 / 2100 MHz) GSM/GPRS/EDGE (Band 850 / 900 / 1800 / 1900 MHz)
Bluetooth	V4.1
USB Port	USB2.0×1 (Host & Debug)
Serial Port	RS232×2, RS485×1
CAN Port	CAN×2 (J1939, CANOpen, ISO15765)
Ethernet	RJ45×1 (100M Ethernet)

### ELECTRICAL

Input voltage	9-36 VDC
Power consumption	≤4.5W

### PHYSICAL

Size	281×181×42mm
Weight	1.5 Kg

### ENVIRONMENTAL

Environmentally Sealed Type	IP65, Waterproof and dustproof
Shock	Designed to survive a 2m drop onto concrete
Operating temperature	-20 °C to + 70 °C (-4 °F to 158 °F)
Storage temperature	-40 °C to + 85 °C (-40 °F to 185 °F)
Humidity	100% non-condensing

## SA100 GNSS Antenna

Frequency Range	GPS: L1, L2, L5 GLONASS: L1, L2 BeiDou: B1, B2, B3 Galileo: E1, E5a/E5b, AltBoc L-Band SBAS
LNA Gain	40dB
Dimension	Φ152x62.2mm
Connector	TNC Female
Weight	374g
Mounting Configuration	5/8"x 11 Threaded
Operating Temperature	-40 °C to +85 °C (-40 °F to 185 °F)
Environmentally Sealed Type	IP67

## D1-D External Radio<sup>1</sup> (Optional)

Working mode	Tx&Rx
Frequency	410-470 MHz
Power	1W
Protocol	Transparent, TT450s
Channel spacing	12.5Khz
Input voltage	6-28 VDC
Power consumption	≤4.5W
Operating temperature	-40 °C to + 70 °C (-40 °F to 158 °F)
Humidity	100% non-condensing
Environmentally Sealed Type	IP67, Waterproof and Dustproof
Shock	Designed to survive a 2m drop onto concrete

## External Camera (Optional)

Resolution	720×576 pixels
CMOS	1/3" CMOS
Input voltage	12-24 VDC
Mode of lighting	Infrared
Environmentally Sealed Type	IP67
Night vision	Infrared night vision

## Standard Package

T10 GNSS Tablet	×1
SEM1 Electric Motor	×1
Gyroscope Sensor	×2
SA100 GNSS antenna	×1

All specifications are subject to change without notice.

1. The D1-D external radio is compatible with common UHF devices. SingularXYZ also offers a LoRa version external radio D1-L for longer working range

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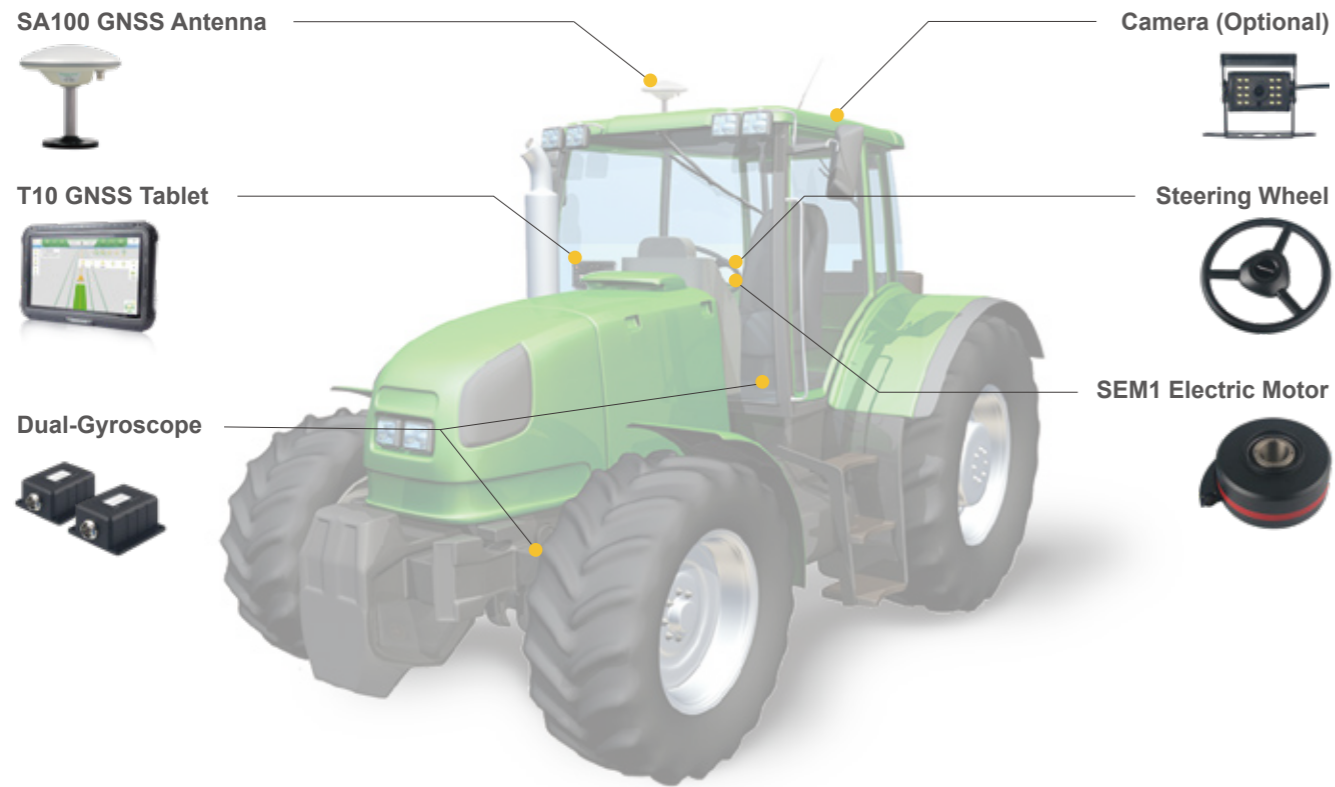
# SAGRO150

AUTOMATED STEERING SYSTEM  
FOR PRECISION AGRICULTURE

## Get Started Easily, Free Your Hands



After installation of the SAgro150 automated steering system, farmers can generate work routes in the software, and the tractor can automatically drive according to the planned route with an accuracy of 2.5cm, which largely simplifies the work of farmers and improves the quality and efficiency of farming.



## WORK MODES



Straight

Curve

U-Turn

Pivot



### FREE YOUR HANDS

With SAgro150 auto-steering system, farmers can free their hands from driving, improving efficiency while reducing fatigue.



### USER-FRIENDLY OPERATION

10" large touch screen, clear & intuitive software, external button to turn on/off auto-steering, farmers can operate with ease.



### 30MIN INSTALLATION

With a few but fully functional components and detailed guide, SAgro150 system can be easily installed by a single person in 30 minutes.



### DAY/NIGHT MODE

The day and night mode can be switched freely, making it easy to realize all-weather work during busy farming hours.



### HIGHER YIELD, LESS COST

The accurate auto-steering of SAgro150 can maximize land use and yield while saving resources such as water and fertilizer.



### SINGLE-ANTENNA DESIGN

SAgro150 system is upgraded with single-antenna and dual-gyroscope design, largely simplifying the installation and improving the compatibility.



### 2.5CM STEERING ACCURACY

Embedded with high-precision full-constellation GNSS module, SAgro150 can provide 2.5cm steering accuracy.



### ABUNDANT WORK MODES

To suit different farm shapes, terrains and tasks, SAgro150 supports straight line, curve, U-turn, pivot and other work modes for your convenience.



### HIGH COMPATIBILITY

SAgro150 provides various spline sleeves compatible with mainstream tractors. 4G/UHF modes can also adapt to different network conditions in different regions.



### SMART MANAGEMENT

Farms & plots management, real-time work records of SAgro150 makes your farming clearer and less human errors.



### MULTIPLE TASK TYPES

From harrowing to sowing, spraying & harvesting, farmers can set different implement types in SAgro150 to meet their farming needs throughout the year.



### 24/7 ONLINE SUPPORT

In order to help users get started easier with SAgro150, SingularXYZ team provides 24/7 online support service.

## RELATED AGRICULTURAL SOLUTIONS

### SV100 Three-in-One Base Solution

SV100 GNSS receiver can work as portable base station, long-term CORS station and RTK bridge for agricultural systems, support both 4G and radio, providing reliable and stable GNSS differential data.



### AB Guidance Lines Surveying Solution

Designed for agricultural systems, users can simply measure the AB guidance lines via mobile devices, without driving the tractor across the large farm to generate AB line, largely saving your cost.

