

# AX100

## GUIDANCE SYSTEM

GNSS Guidance System For Precision Agriculture



MORE PRECISE  
MORE PRODUCTIVE



### CENTIMETER-LEVEL ACCURACY

Embedded with high precision GNSS module in T100 display & control terminal, partnered with AX100 geodetic antenna, the AX100 GNSS guidance system can synchronously track all running and planned constellations, including GPS, BeiDou, GLONASS, Galileo and QZSS, providing centimeter-level accuracy for precision farming. With high navigation accuracy, AX100 can largely facilitate the field work of users and offer higher productivity.

### SMART WORK MANAGEMENT

The AX100 GNSS guidance system provides software that can intelligently manage the working field and simplify the operation of users, including the recording of the completed work area, the planning and navigation of the work route, etc., which greatly reduces manual mistakes and improves work efficiency.

### EASY INSTALLATION & UPGRADE

The AX100 guidance system is compatible with most agricultural tractors, and all components can be easily installed within 20 minutes. Moreover, the AX100 guidance system can be easily upgraded to an auto-steering system. On the basis of keeping all components unchanged, only need to add an electric Motor to the AX100 guidance system to easily upgrade it to auto-steering system, freeing users' hands and improving work efficiency.



#### GEODESICAL TECHNOLOGY S.L.

Add: Velázquez 55, 3º  
28001-Madrid Spain  
Web: [www.Geodesical.com](http://www.Geodesical.com)  
E-mail: [info@geodesical.com](mailto:info@geodesical.com)  
Tel: +34- 91 129 78 50

# AX100 GUIDANCE SYSTEM

## GUIDANCE PERFORMANCE

Pass to Pass Accuracy ≤30CM

## T100 GNSS

### Tablet

#### GNSS

GPS	L1, L2
GLONASS	L1, L2
BDS	B1, B2
Galileo	E1, E5b
QZSS	L1, L5
SBAS	WAAS, EGNOS, MSAS, GAGAN
RTK Accuracy	H: 10mm+1ppm V: 15mm+1ppm
Data Format	RTCM V2.3/3.0/3.2, NMEA0183
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	1024x600 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	1xUSB2.0 (Host & Debug)
Serial Port	2xRS232, 1xRS485
CAN Port	2xCAN (J1939, CANOpen, ISO15765)
Ethernet	1xRJ45(100M Ethernet)

#### ELECTRICAL

Input Voltage	9-36 VDC
Power Consumption	≤4.5W

## PHYSICAL

Size	281x181x42mm
Weight	1.5 Kg

## ENVIRONMENTAL

Environmentally Sealed Type	IP67, 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

## A10 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□ to +85□ (-40 °F to 185 °F)
Environmentally Sealed Type	IP67

## Standard Package

T100 GNSS Tablet	x1
A10 GNSS Antenna	x1
AX100 Guidance Software	x1
4G Antenna	x1
RAM Bracket, Sucker	x1
Power Switch	x1
Data Transmission Cable	x1
Power Cable	x1
GNSS Antenna Cable	x1

All specifications are subject to change without notice.



GEODESICAL TECHNOLOGY S.L.

Add: Velázquez 55, 3º  
28001-Madrid Spain

Web: [www.Geodesical.com](http://www.Geodesical.com)

E-mail: [info@geodesical.com](mailto:info@geodesical.com)

Tel: +34- 91 129 78 50