ANKEENS

ANK430

AUTOSTEER SYSTEM

RELIABLE

USER-FRIENDLY

COST-EFFECTIVE

HIGH PERFORMANCE

COMPANY INTRODUCTION

Ankeens is a supplier of high-quality surveying equipment and agricultural auto-navigation solutions.

As a modern company, we specialize in advanced surveying instruments, precision positioning systems, and auto-navigation technology for agricultural machinery—delivering durable, innovative products for professional use.

As a China-based supplier, we strike the perfect balance between quality and cost-effectiveness for companies seeking dependable solutions.

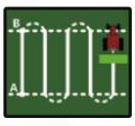
Discover our product range at www.ankeens.com

Ankeens—your trusted partner in precision surveying and advanced agricultural navigation.

GNSS Autosteering System

- The ANK430 is an automated steering system for all agricultural vehicles, ensuring precise path tracking across any field or terrain. It enhances land use, boosts productivity, and reduces effort, offering 2.5 cm accuracy with full GNSS support and precise positioning, even without cellular or UHF base stations.
- Compatible with new and old tractors, the ANK430 has a compact, rugged, all-in-one design at an affordable price. It installs in 30 minutes and can be easily transferred between tractors for maximum flexibility.
- Its GNSS+INS terrain compensation technology ensures hands-free, one-inch accuracy in any terrain, excelling in ditching, planting, and harvesting tasks.

Application & Functions


A-B Line


Curve


Pivot


A+ Line


Grid


Transplant

ISOBus


U-Turn

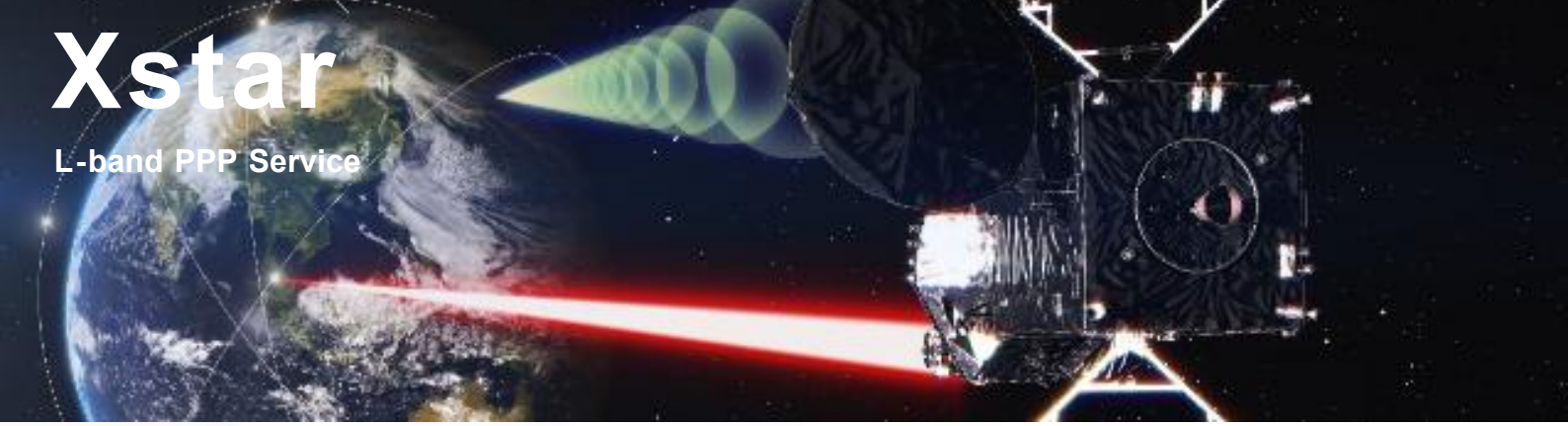
Functions

- Various operation modes, such as AB straight line, A+ line, Circle, Curve, Grid, etc.
- Support the import and export of job data
- Statistics of working area
- Support remote debugging
- Support varieties of vehicles, Tractor, Harvester, Articulated tractor, Crawler tractor, Transplanter, etc.
- Support U-turn , Auto-turn
- Support ISOBUS VT

Controller	
GNSS performance	
Satellites tracking	BDS： B1I,B1c,B2a,B2I,B3I
	GPS： L1C/A,L2P,L2C,L5 ;
	GLONASS： L1C/A,L2C/A
	Galileo： E1C/A,E5a,E5b
	QZSS： L1C/A,L2C,L5
	SBAS： L1C/A,L5
	MSS L-Band： QXWZ XStar
Channel	1520
Accuracy	RTK
	Horizontal：8mm+0.5 ppm CEP
	Vertical：15mm+0.5 ppm CEP
	PPP
	Horizontal：<1.5cm CEP
	Vertical：<2.5cm CEP
Heading accuracy	<0.08° RMS @ 1.0 m baseline
Re-acquisition	< 1 second
Power	
Power input	7-36V DC
Reverse connect protection	Support
Over voltage	Support
Mechanical	
Dimensions	162 * 162 * 70 mm
Weight	1280g
Port	2 * RS232;
	2 * CAN;
	1 * SIM card
	1 * TNC for Radio antenna;
	1 * TNC for GNSS antenna;
	1 * Serial port,18-pin
Communication	
WiFi	802.11 b/g/n
Network	EG25-G, Global 4G,EC20-E
UHF Radio	410~470MHz
NMEA output	GGA, GSV, VTG, GSA, ZDA, RMC, GST
Correction formats	RTCM 3.x
Environmental	
Operation Temperature	-40℃ ~ +70℃
Storage Temperature	-40℃ ~ +80℃
IP Degree	IP 67
Vibration	EP455 /5.15.1 Random
Shock	EP455 /5.14.1
EMC	EN ISO 14982:2009;
	CDE(IEC 60945 Emissions and Immunity;
	FCC Part 15 Sub part B; CISPR22) EN 13309
Humidity	95% (NO CONDENSATION)

Console	
Configurations	
CPU	AllWINNER T507 8 * 1.5GHz
OS	Android 10.0
RAM	2GB
ROM	16GB
Mechanical	
Dimensions	270L * 190W * 44H mm
Weight	1300 g
Mounting	Support RAM Bracket
Interface	CAN:2*CAN, support J1939, ISO15765;
	USB: USB3.0 * 1, Micro USB * 1;
	Camera ports: 2 * Camera;
	Serial port: 2 * RS232
Power	
Input Voltage	7~36V DC
Display	
Dimension	10.1 inch
Resolution	1280 * 800
Touch screen	Support 10-point capacitive touch screen
Communication	
WiFi	802.11a/b/g/n/ac;
	2.4 & 5GHz
Bluetooth	BT2.1+EDR/3.0/4.1/4.2 BLE
GNSS	Beidou,GPS,GLONASS,Galileo
4G	TD-LTE、FDD-LTE、TD-SCDMA、CDMA （EVDO、2000）、WCDMA、GSM（GPRS）；
	Support 2 * SIM
Environmental	
Operating Temperature	-20℃ ~ +70℃
Storage Temperature	-30℃ ~ +80℃
IP degree	IP 65
Vibration	EP455 /5.15

Electric steering wheel	
Specifications	
Input Voltage	9~32V DC
Rated Output Torque	≤ 5s
Max Feed Rate	100RPM
Response Delay	< 0.4 s
Frequency Response	20Hz
Mechanical	
Dimensions	212 *Ø 182 * 85 mm (Without steering wheel)
Dimensions (With steering wheel)	Ø 400 * 110 mm
Weight	≤ 6.5kg
Communication	
Interface	IP 67, Metal 6 * Ports Joint
Data I/O Protocol	ISO11783 CAN BUS
Environmental	
Operation Temperature	-20℃ ~ +70℃
Storage Temperature	-40℃ ~ +85℃
IP Degree	IP 65
Vibration	EP455 /5.15.1 & 5.15.2
Shock	EP455 /5.14.1
Safety	
Requirement	FCC /15 B
Radiate Emission	ISO14982-2009/6.4/6.5
Radiate Immunity	ISO14982-2009/6.6
Electrostatic Discharge	ISO14982-2009/6.7
Product Complies	2011/65/EU RoHS 2.0



Xstar

L-band PPP Service

Usage scenarios

Precision Agriculture

Marine Survey

Machine Control

Survey

- XStar provides a satellite-based correction service that delivers real-time, centimeter-accurate positioning across regions like the Russian Federation, Europe, Africa, the Middle East, and the Asia Pacific.
- It ensures dependable, high-precision performance, independent of local CORS/base stations or cellular connectivity constraints.
- Designed for seamless compatibility with existing systems, it leverages PPK data transmission (DT1) to improve signal accuracy and positioning reliability. The latest releases combine GNSS and L-Band receivers into a single unit, removing the need for extra hardware.

Quick Setup : in 3 to 10 minutes

Enhanced Precision: 2 cm

Reliable Performance: 99.9%

Wide Coverage

ANKEENS

GNSS-powered
Spatially Intelligent
Industry-Connected

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