

SMAJAYU

JY100 Guidance System

Overview

Smajayu guidance system JY100 consists of professional GNSS smart antenna, large display and guidance software. It would be the ultimate guidance solution for today's precision farmer. soft-ware has farmer-friendly GUI and large iconic buttons for each function. It features navigation access within 3-click ideal for minimal training and guidance experience. JY100 is robust, accurate and affordable enabling you to easily perform various farming tasks, extend your operating hours and enhance the productivity of your farm.



Key Features

Supports multiple constellations & frequencies:

- GPS L1/L2/L5/L-Band
- GLONASS L1/L2/L3
- GALILEO E1/E5a/E5b/E6
- BDS B1/B2/B3
- QZSS L1/L2/L5/L6
- IRNSS L5
- SBAS L1/L5

10.1" touch screen control tablet

Improve Efficiency

Reduce the Waste

Reliable GNSS

Easy to Install and Move

Note: If users want to customize the product portfolio, please contact sales@smajayu.com by email.

Tailored solutions for the world / Version V1.0-20190410

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Technical Specifications - T100 Control Tablet

System

Operating System:	Android 6.0
CPU:	Quad-Core 1.5GHz
Memory:	2GB RAM + 16GB ROM
External Flash:	T-Flash , up to 64GB
LCD:	10.1" Capacitive Touch Screen
Resolution:	1024x600 pixels

Communication

Wi-Fi:	2.4GHz IEEE 802.11 b/g/n
Cellular:	FDD-LTE 800 / 1800 / 2100 / 2600MHz TD-LTE 1900 / 2300 / 2500 / 2600MHz WCDMA 850 / 900 / 1900 / 2100MHz GSM 850 / 900 / 1800 / 1900MHz
Bluetooth:	V4.0
USB:	USB 2.0 (host & debug) x1
Audio:	3.5mm Audio Jack for Audio
Serial Port:	RS232 x2, RS485 x1
CAN Port:	CAN x2 (J1939, CANOpen, ISO15765)
Ethernet:	RJ45 (100M Ethernet) x1



GNSS

Signal Tracking:	GPS L1, L2; GLONASS L1, L2; BeiDou B1, B2; GALILEO L1, L2; QZSS L1, L2; SBAS L1
GNSS Channels:	432
Single Point Positioning Accuracy (RMS):	
– Horizontal:	1.5m
– Vertical:	2.5m
Real Time Kinematic, RTK (RMS):	
– Horizontal:	10mm+1ppm
– Vertical:	15mm+1ppm
Heading Accuracy:	
– 1m Baseline (RMS):	0.1°
Timing Accuracy (RMS):	20ns
Velocity Accuracy (RMS):	0.03m/s
Correction:	RTCM 2.3/3.0/3.2
Heading and RTK update rate:	20Hz
Network Protocol:	NTRIP, TCP/IP

Electrical

Power Input:	9V~36V DC
Power failure detection:	supported
Power output:	12V DC x2

Physical

Dustproof & Waterproof:	IP-65
Dimension:	281mmx181mmx42mm
Weight:	1.5kg
Operating Temperature:	-20 °C ~ +70 °C
Storage Temperature:	-40 °C ~ +85 °C

Sales Inquiry | sales@smajayu.com

Technical Support | support@smajayu.com & tech@smajayu.com

Information and related materials are subject to change without notice.

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Technical Specifications -A10 GNSS Antenna



Performance

Frequencies:

GPS L1/L2/L5/L-Band; GLONASS L1/L2/L3
GALILEO E1/E5a/E5b/E6; BDS B1/B2/B3
QZSS L1/L2/L5/L6; IRNSS L5;SBAS L1/L5

Impedance: 50Ω

Polarization: RHCP

Axial Ratio: ≤3dB

Azimuth Coverage: 360°

Output VSWR: ≤2.0

Peak Gain: 5.5dBi

Phase Center Offsets: ±2mm

Gain at Zenith (90°): 1164-1300MHz 6dBi(maximum)
1520-1615MHz 5.5dBi(maximum)

Environmental

Operating Temperature: -40°C ~ +85°C

Storage Temperature: -55°C ~ +85°C

Humidity: 95% not condensing

Water/Dust Resistance: IP67

Regulatory Compliance: NGS, CE, FCC, RoHS



LNA

LNA Gain: 40dB(typical)

Noise Figure: ≤2.0dB

Output VSWR: ≤2.0

Operation Voltage: 3.3V~12V DC

Operation Current: ≤45mA

Group Delay Ripple: Group Delay Ripple

Mechanical

Dimension: φ 173.4x62.6mm

Connector: TNC Female

Mounting: BSW5/8"-11 screw, 12-14mm

Weight: ≤500g

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