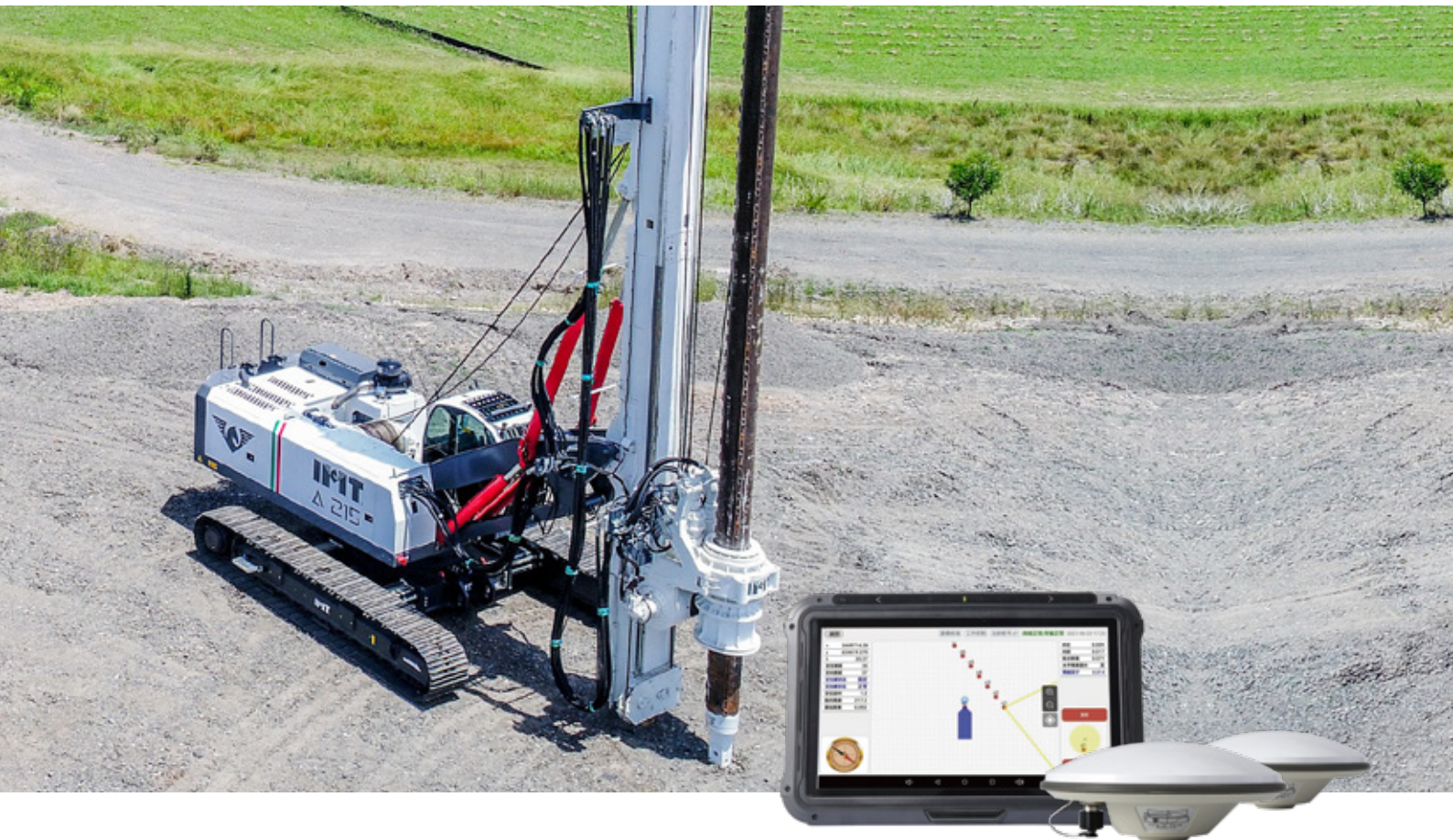


SP100

GNSS PILING SYSTEM

Precise Guidance, Easier Piling



FULL-CONSTELLATION

Capable of tracking full constellations including GPS, GLONASS, BeiDou, Galileo and QZSS, SP100 GNSS piling system can obtain real-time precise positioning & heading and reach centimeter-level piling accuracy, which largely improves the working quality and efficiency.

HUMANIZED GUIDANCE

Especially designed for piling, SP100 piling software provides complete workflow from work file import, calibration, pile driver modeling, piling and accuracy check. It offers humanized graphic and voice-broadcast piling instructions, greatly facilitating your work and saving your time.

MADE FOR FLEXIBILITY

SP100 piling system supports multiple work modes for different types of pile drivers, such as hydraulic static pile driver, rotary bored pile driver, multi-axis mixing pile driver and photovoltaic pile driver. For data transmission, users can also choose UHF or 4G according to their needs.

SYSTEM PERFORMANCE

Piling Accuracy	0.01 m + 1 ppm
Pile Driver Types	-Hydraulic static pile driver -Rotary bored pile driver -Multi-axis mixing pile driver -Photovoltaic pile driver

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	1×USB2.0 (Host & Debug)
Serial Port	2×RS232, 1×RS485
CAN Port	2×CAN (J1939, CANOpen, ISO15765)
Ethernet	1×RJ45(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	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

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

Standard Package

T10 GNSS Tablet	×1
SA100 GNSS Antenna	×2
SP100 Piling Software	×1
GNSS Antenna Cable	×2
Power Cable	×1
4G Antenna	×1
RAM Bracket, Sucker	×1
Data Transmission Cable	×1
4G Antenna	×1

All specifications are subject to change without notice.

©2023 SingularXYZ Intelligent Technology Ltd. All rights reserved. SingularXYZ[®] is the official trademark of SingularXYZ Intelligent Technology Ltd., registered in People's Republic of China, EU. All other trademarks are the property of their respective owners.