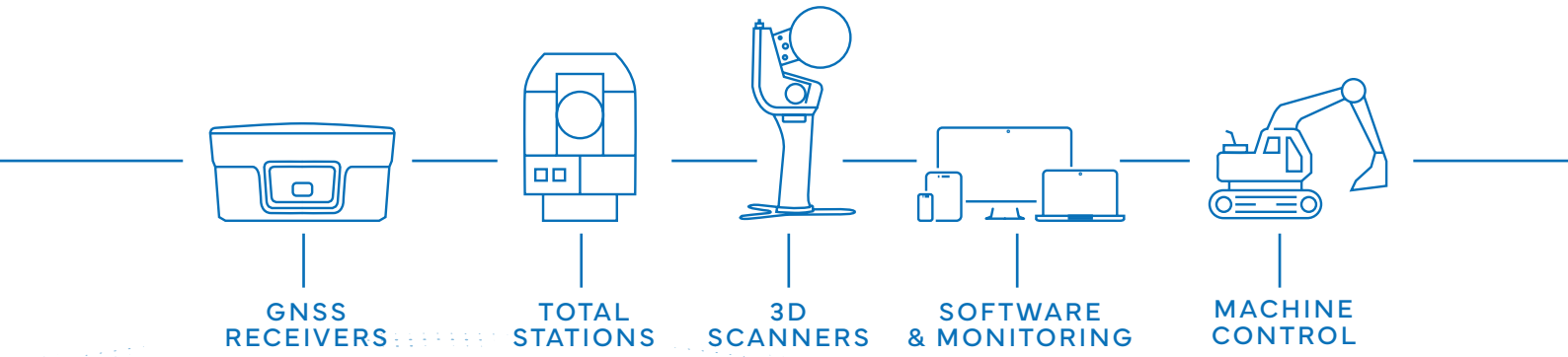
PRODUCT CATALOG **2026**



STONEX

stonex.it

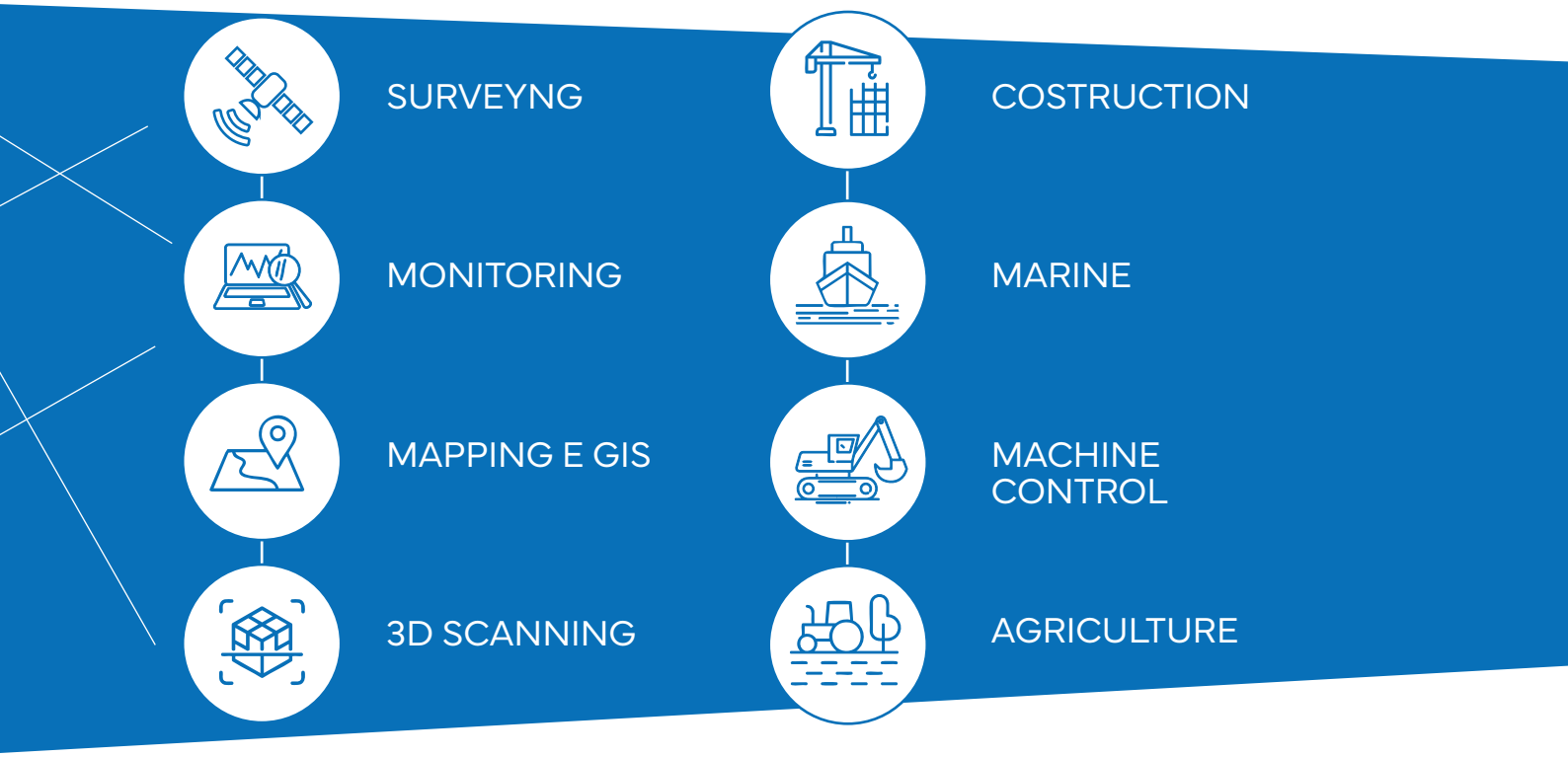
STONEX

PRODUCT CATALOG
2026

ABOUT

THE COMPANY

FIELDS OF APPLICATION



EUROPE HQ

Stonex is an Italian company, based near Milan. With over 200 qualified distributors worldwide, it is one of the world's leading companies in measurement and survey.

Stonex products combine the most advanced technologies with a practical design to simplify your daily work. Everyone's needs are met thanks to a team that is able to handle any pre-and post-sales request.

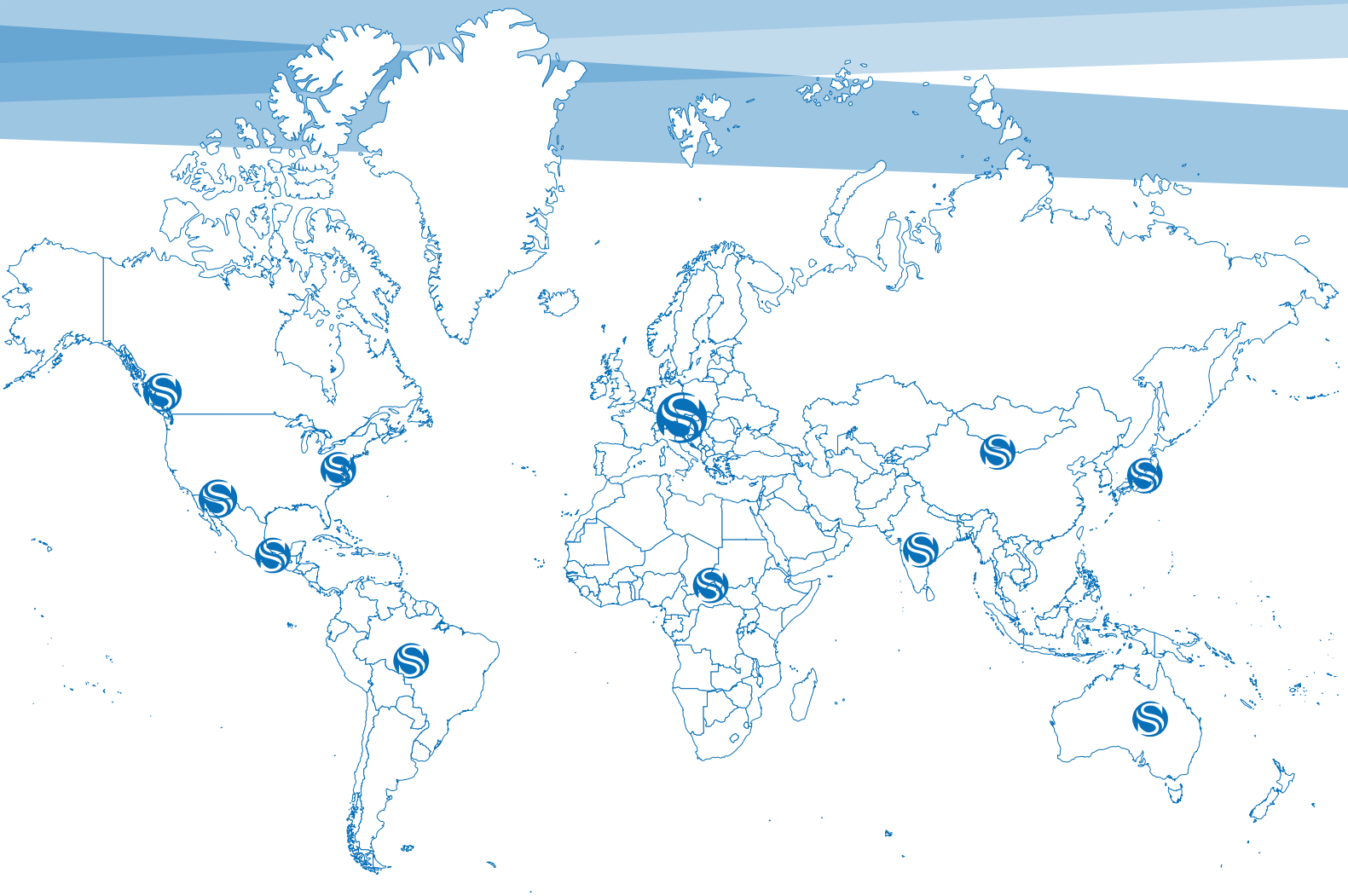
USA HQ

The Stonex Headquarters in North America is located in Concord, New Hampshire.
Since its opening in 2019 Stonex USA has grown more and more thanks to the vast network of distributors throughout the territory.

With the USA Headquarters as a base, Stonex has the opportunity to be closer to the needs of its American customers through greater territorial coverage and strengthening of global business.

A WORLDWIDE NETWORK OF

PROFESSIONAL DEALERS



FOLLOW US

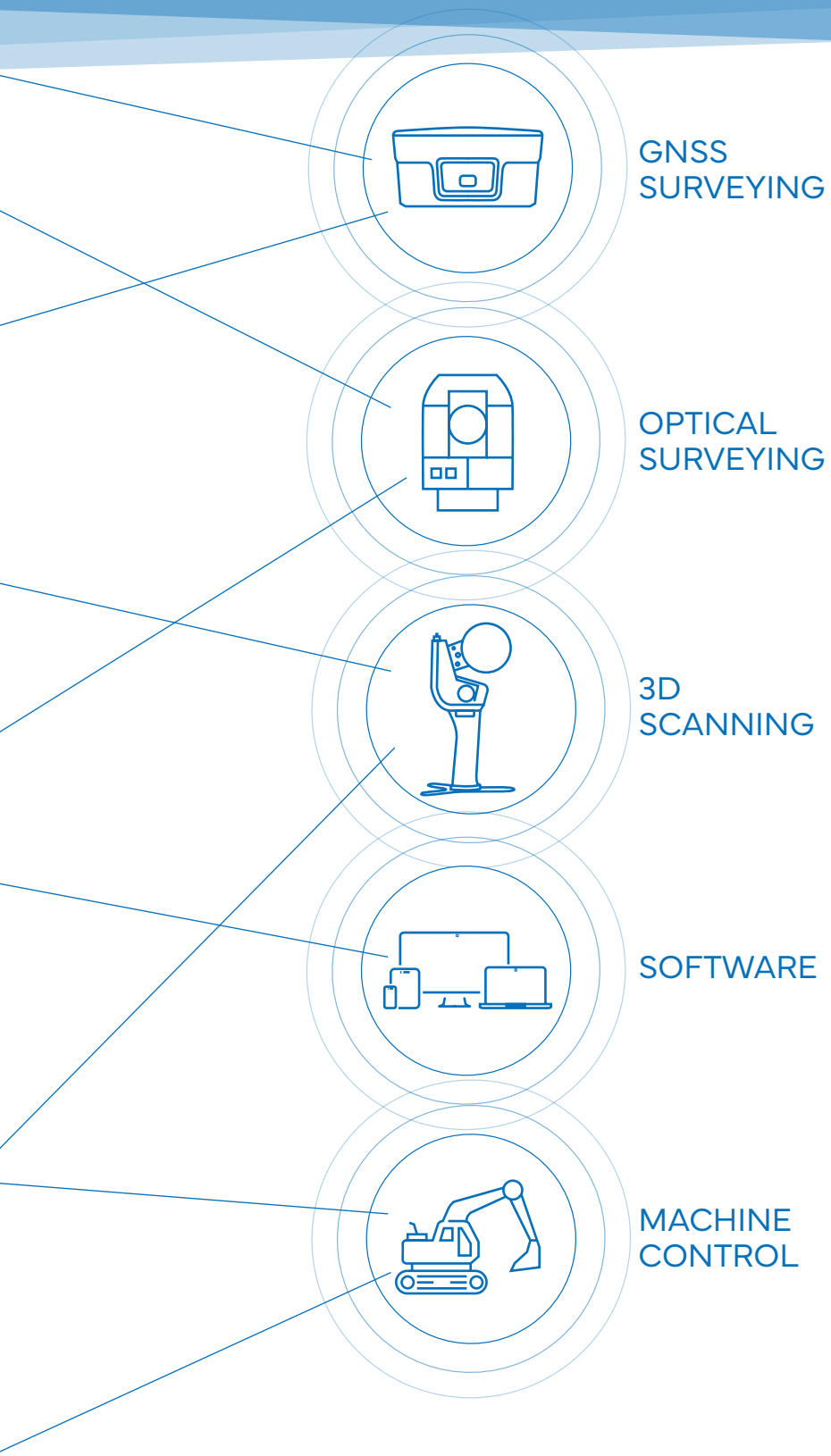
ONE PLACE
ONE ACCOUNT
ALL STONEX WORLD



MY STONEX

OUR

PRODUCTS



GNSS SURVEYING

OPTICAL SURVEYING

3D SCANNING

SOFTWARE

MACHINE CONTROL

A STONEX SOLUTION FOR EACH GEOSPATIAL NEED

SURVEYING
GNSS I GIS



SURVEYING
TOTAL STATIONS



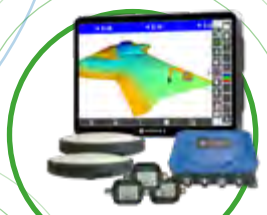
SOFTWARE
FIELD I GIS I 3D





STONEX
SOLUTIONS









3D SCANNING
HANDHELD I TERRESTRIAL

MACHINE CONTROL
EARTHMOVING I DRILLING & MINING
PILING I AGRICULTURE I MARINE SYSTEMS

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SURVEY GNSS

POWERFUL SOLUTIONS FOR ALL SURVEYING JOBS

Stonex offers a broad range of GNSS receivers to meet your needs. Stonex receivers combine the world's most advanced technology with practical, integrated designs to simplify your daily work.

Designed to meet the requirements of professional surveyors, Stonex's GNSS portfolio includes a full range of options, allowing users to choose the best solution for their individual needs.

S1000



S599



S850



S880



S950



S999



COMPACT WITH AR STAKEOUT

S599



The S599 GNSS receiver is an ideal solution for GIS professionals who need high accuracy positioning in a compact and portable device. Weighing just 380 grams and measuring only 98mm in width and 46mm in height, this ultralight receiver offers exceptional ease of use and is well-suited for long hours of field data collection.

Despite its small size, the S599 is IP68 rated and built to withstand tough field conditions, offering a durable and rugged design that ensures reliable performance in any environment.
Equipped with a built-in camera for AR stakeout and mapping, the S599 shows real-time navigation and distance to target points. Its impressive 12-hour battery life ensures full-day operation without the need to recharge, keeping your workflows uninterrupted.

MULTIPLE CONSTELLATION

The S599 is capable of tracking and utilizing signals from multiple global satellite constellations, including GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS.

IMU TECHNOLOGY

The S599 features an integrated IMU that automatically compensates for pole tilt up to 60 degrees, enhancing surveying speed, accuracy, and overall field efficiency.

INTEGRATED CAMERA FOR AR STAKEOUT

The built-in camera provides GIS professionals with the ability to capture photos and geo-tag them directly in the field.

ULTRA-COMPACT & LIGHTWEIGHT

Weighing just 380 g and measuring only 98 x 46 mm, the S599 offers ultimate portability without compromising on performance.

DURABLE AND RUGGED DESIGN

Despite its compact size, the S599 is built to endure tough field conditions and is rated IP68 for water and dust resistance.



S599

COMPACT, LIGHT, READY FOR GIS AND MORE

Paired with a survey pole mounted with a wheel, the S599 becomes the perfect tool for GIS professionals focused on road mapping and linear measurements. Its integrated IMU enables precise data capture even when tilted, allowing you to efficiently map and calculate areas and distances directly along the road.

OnePole

The Stonex OnePole Solution delivers unparalleled surveying versatility by combining one of Stonex's advanced robotic total stations with the ultra-compact, high-precision S599 GNSS receiver. This powerful integration enables seamless switching between Total Station and GNSS modes with just a tap, adapting effortlessly to any field condition.
Thanks to the compact size and state-of-the-art technology of the S599, surveyors enjoy true mobility without compromising accuracy. Coupled with Stonex's robotic total stations and supported by Cube-a software, the OnePole Solution ensures smooth communication, fast data exchange, and streamlined workflows.

---

cube·connector

Cube-connector is Stonex's intuitive Android app that seamlessly connects your S599 GIS GNSS receiver to any Android device via Bluetooth. By replacing your device's internal GPS with the high-precision data from the S599, Cube-connector delivers the accuracy and reliability essential for GIS and surveying applications.

COMPACT GNSS SYSTEM

S850



The Stonex S850 is a compact and advanced GNSS receiver designed for precision surveying in various environments. Supporting multiple satellite constellations including GPS, GLONASS, BeiDou, Galileo, QZSS, and IRNSS this device ensures optimal accuracy and reliability for all surveying needs.

Featuring an integrated Inertial Measurement Unit (IMU) that compensates for pole tilt up to 60 degrees, the S850 enhances surveying efficiency. It is powered by a robust 13400 mAh lithium battery for extended field use and includes a USB Type-C connection for quick recharging. With a high-powered 2W radio for reliable long-distance data transmission, the S850 is ideal for remote and rugged applications.

MULTIPLE CONSTELLATIONS

GPS, GLONASS, BEIDOU, GALILEO, QZSS, IRNSS and PPP correction services (HAS and B2b).

IMU TECHNOLOGY

The integrated IMU allows the receiver to automatically compensate for pole tilt up to 60 degrees, boosting surveying speed and efficiency.

HIGH CAPACITY BATTERY AND USB TYPE-C

S850 is delivered with a large capacity lithium battery 13400 mAh.

RADIO

The S850 GNSS receiver features a high-powered 2W radio that ensures reliable data transmission over long distances, making it an ideal choice for remote or rugged applications requiring robust wireless connectivity.

RUGGED RTK

S850 is a durable and waterproof high-precision positioning solution designed for challenging outdoor environments.



S850

WHY CHOOSE THE S850 GNSS RECEIVER?

The S850 GNSS Receiver is the ideal choice for a variety of professionals and applications:

COST-CONSCIOUS PROFESSIONALS

If you're looking for a high-performance GNSS solution that meets your specific needs without exceeding your budget, the S850 offers exceptional value without compromising on quality.

BASE STATION USERS

For those who require a reliable base station, the S850 ensures seamless radio connectivity to your rover, facilitating efficient data transmission and enhancing operational effectiveness.

DRONE INTEGRATION

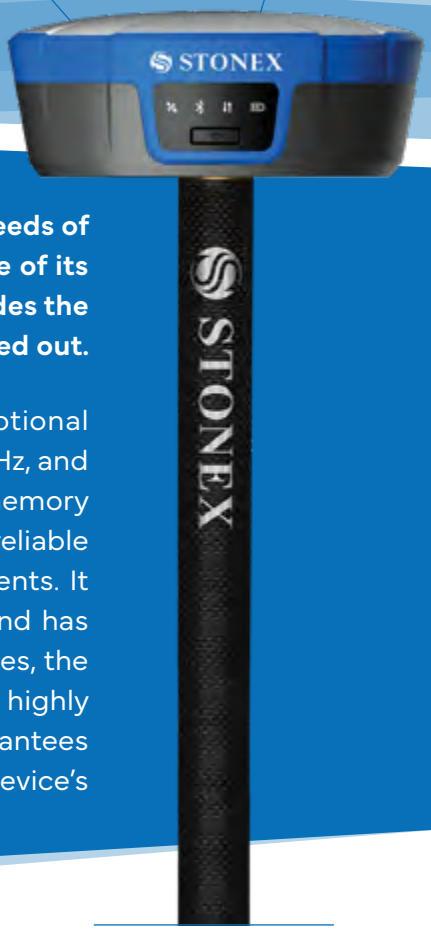
The S850 is designed for easy integration with drones, making it perfect for users who want to enhance their aerial surveying and mapping capabilities.

CONSTRUCTION TEAMS

Built to withstand tough conditions, the S850 is a durable GNSS system that maintains precise positioning accuracy, making it an excellent choice for construction teams operating in challenging environments.

VISUAL STAKEOUT

S880



The S880 is a versatile and advanced GNSS receiver that caters to the needs of various applications, including surveying, mapping, and navigation. One of its key features is the integration of a bottom stakeout camera, which provides the operator with real-time visual assistance to identify the point to be staked out.

The S880 incorporates cutting-edge technology to deliver exceptional performance. It boasts a 2W radio transceiver, a positioning speed of 20Hz, and an integrated IMU, ensuring precise position updates. The device's 8GB memory capacity resolves any storage issues, while the 4G modem ensures reliable connectivity. The S880 is designed to withstand challenging environments. It can function perfectly in temperatures ranging from -40°C to +65°C and has an IP68 rating for water and dust resistance. Despite its robust capabilities, the S880 maintains a lightweight design of approximately 730g, making it highly portable without compromising resistance. The long-lasting battery guarantees uninterrupted operation for at least 10 hours, further enhancing the device's versatility and convenience.

MULTIPLE CONSTELLATIONS

S880 can track and utilize signals from multiple satellite constellations, such as GPS, Galileo, GLONASS, BeiDou, QZSS and IRNSS.

IMU TECHNOLOGY

The integrated IMU allows the receiver to automatically compensate for pole tilt up to 60 degrees, boosting surveying speed and efficiency.

SMALL & LIGHTWEIGHT

The small and lightweight design of the S880 makes it highly portable and easy to integrate into a variety of surveying, mapping, and navigation applications.

2W RADIO

The S880 GNSS receiver features a high-powered 2W radio that ensures reliable data transmission over long distances, making it an ideal choice for remote or rugged applications requiring robust wireless connectivity.

RUGGED RTK GNSS With IP68

S880 is a durable and waterproof high-precision positioning solution designed for challenging outdoor environments.



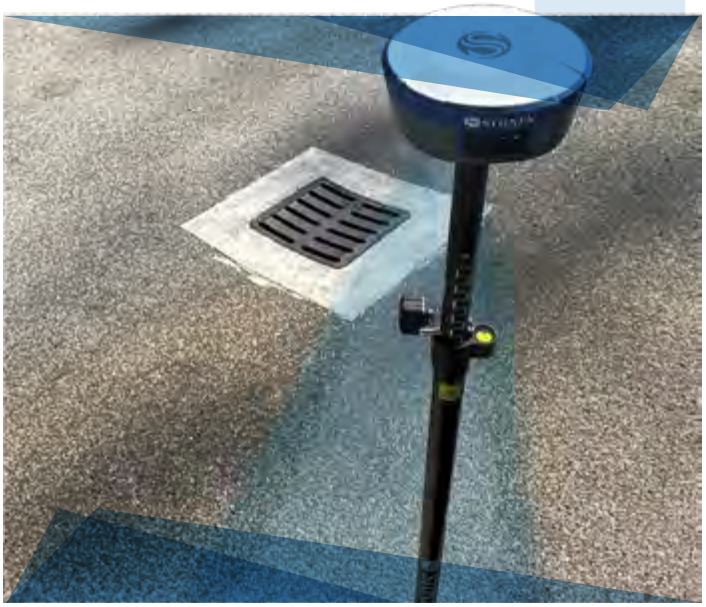
S880 AR

STAKEOUT CAMERA IN CUBE-A

The S880 is equipped with a camera that captures the real-world scene. This camera can be used for user-activatable AR stakeout, when needed. The camera provides real-scene navigation, displaying the distance to the target point. Cube-a's interface uses visual tools to guide the surveyor to the exact stake position. There is a graphic element that indicates the direction of the point and the distance. The graphic elements vary depending on the distance that the operator has from the point to be staked out.

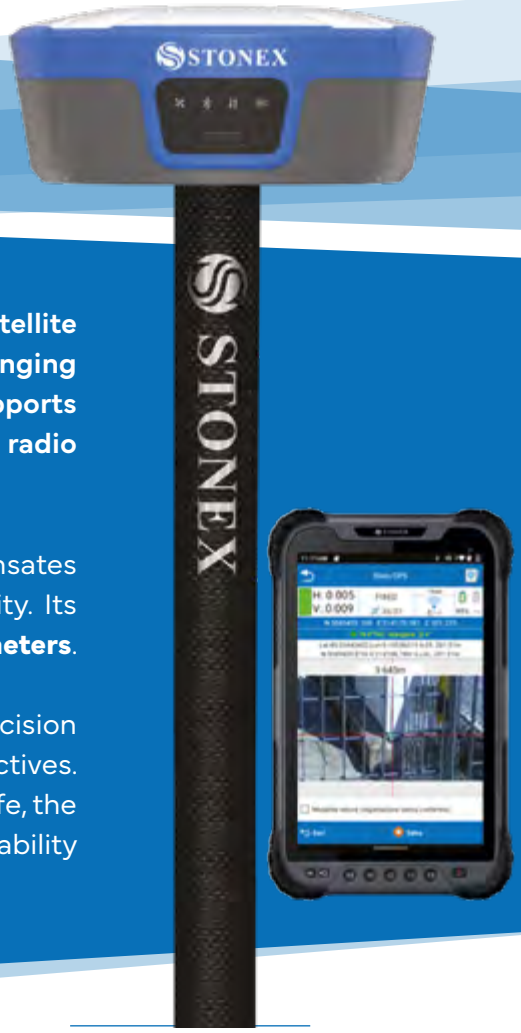
cube-a





DUAL CAMERA AND LASER DISTANCE METER

S950



The S950 GNSS receiver offers superior positioning and satellite tracking with 1408 channels, ensuring precision in challenging environments. Equipped with GSM 4G connectivity, it supports real-time data transfer, while its integrated 2-watt radio ensures long-distance communication.

The integrated IMU technology automatically compensates for the pole's tilt up to 60°, ensuring greater productivity. Its advanced **laser distance meter** offers a range of up to **30 meters**.

Dual-camera technology boosts efficiency and precision by enabling simultaneous stakeout from two perspectives. Weighing only 810g and offering over 10 hours of battery life, the S950 is portable and durable, with an IP67 rating and the ability to withstand temperatures from -40°C to +65°C.

MULTIPLE CONSTELLATIONS

With 1408 channels, the S950 ensures accurate positioning and reliable satellite tracking, even in limited signal environments.

IMU TECHNOLOGY

The integrated IMU allows the receiver to automatically compensate for the pole's tilt up to 60 degrees, increasing survey speed and efficiency.

ADVANCED LASER DISTANCE METER

The S950 features an integrated green laser distance meter that provides high-precision measurements. The range extends up to 30 meters, seamlessly combining distance measurements with GNSS data for real-time, georeferenced results. It is now possible to measure an inaccessible point using the laser distance meter from a single GNSS position.

DUAL-CAMERA TECHNOLOGY

With dual cameras, the S950 enables simultaneous stakeout from two different perspectives, boosting efficiency and accuracy in data capture and analysis.

2-WATT RADIO

The built-in 2-watt radio delivers strong communication capabilities over long distances, ensuring uninterrupted data transmission.



S950

MEASURE WHERE YOU CAN'T GO

The S950 is equipped with an integrated laser distance meter that emits a beam toward the target and calculates its GNSS coordinates. The measurement combined with the GNSS + IMU position allows the coordinates of the inaccessible point to be calculated. Positioned next to the rear camera, the green laser allows precise measurement of the desired point without the need for physical access, ensuring extremely accurate results in any environmental condition. The laser measurement system adapts perfectly to a variety of environments, from confined spaces to large outdoor areas, making it ideal for complex or hard-to-reach locations. Thanks to fast and accurate readings, the S950 GNSS receiver streamlines workflows, reducing field operation times without compromising precision.



AR STAKEOUT

The S950 GNSS receiver, equipped with dual cameras (rear and bottom), provides real-time visual feedback from different angles, leveraging laser collimation to enhance stakeout accuracy. This advanced feature simplifies field operations, reducing the time required to complete measurements while significantly improving result quality. Visual stakeout is supported by the rear camera, which allows users to locate the point to stake out from a distance. As the operator approaches the area of interest, the view switches to the bottom camera for a more precise visualization of the point to measure (this feature is available in the Cube-a software). The dual-camera system ensures full visibility, enabling high-precision and uninterrupted stakeout.

DUAL CAMERA

S999



S999, equipped with 1408 multi-constellation channels, guarantees precise and reliable positioning by supporting all GNSS signals, including GPS, GLONASS, Galileo, QZSS, IRNSS, and BeiDou.

It features an integrated 4G modem and a 1-Watt UHF radio operating in the 410-470 MHz and 902.4-928 MHz frequency ranges, ensuring constant connectivity and an extended working range. The advanced IMU technology enables tilted measurements of up to 60° with rapid initialization, enhancing field productivity by as much as 40%. The S999 receiver is also equipped with two cameras: one for stakeout and one for photogrammetric applications, expanding the system's usage possibilities.

MULTIPLE CONSTELLATIONS

S999 can track and utilize signals from multiple satellite constellations, such as GPS, GLONASS, Galileo, QZSS, IRNSS, and BeiDou.

IMU TECHNOLOGY

The integrated IMU allows the receiver to automatically compensate for pole tilt up to 60 degrees, boosting surveying speed and efficiency.

CAMERAS

S999 receiver is equipped with two cameras: one for stakeout and one for photogrammetric applications.

DOUBLE FREQUENCY RADIO

S999 GNSS receiver has integrated UHF double frequency radio, 410-470MHz and 902.4-928MHz.

RUGGED RTK GNSS WITH IP68

S999 is a durable and IP68 waterproof high-precision positioning solution designed for challenging outdoor environments.



S999

CHANGE THE WAY YOU **MEASURE**!



VISUAL STAKE OUT

The front camera simplifies point staking by clearly showing the surrounding area, helping you accurately identify the point of interest. As you get closer, it automatically switches to the lower camera for precise framing, ensuring reliable measurements. Cube-a's interface uses visual aids to guide surveyors to the exact staking location. A graphical display indicates both the direction and distance to the point, adjusting as the operator approaches.



MEASURING INACCESSIBLE POINTS

The system allows you to record a video of the area you want to measure. The program extracts several photos that the operator can use to align the points to be measured. Cube-a then immediately provides the calculated coordinates, which can be easily recorded. Measurements can be taken offline as well.



ONLINE POINT CLOUD AND MESH

The acquired video of an area can be exported and uploaded to photogrammetry software (Cube-3D) to generate a three-dimensional model (point cloud and mesh). The survey can then be visualized and managed directly on the Android controller within Cube-a (v. 7).

PHOTOGRAMMETRY & LASER DISTANCE METER

S1000



The S1000 is the first receiver to feature the groundbreaking new GNSS board, boasting an impressive 1600 channels with full multi-constellation and multi-frequency tracking capabilities. This ensures superior satellite signal acquisition and tracking performance, even in the most challenging environments.

Equipped with a versatile dual-camera system, the S1000 offers a downward-facing camera designed for intuitive **AR stakeout**, streamlining field workflows, alongside a front-facing camera optimized for high-quality **photogrammetry**, enabling detailed image capture and precise mapping. Completing its powerful feature set is an **integrated laser distance meter**, providing accurate measurements in hard-to-reach or obstructed locations where traditional tools may fall short. The receiver also includes an upgraded **long-range LoRa radio** for stable, extended communication, and features two **hot-swappable batteries** to maximize uninterrupted operational time.

MULTIPLE CONSTELLATIONS

The S1000 features a powerful GNSS board with 1600 channels, capable of tracking all available signals across every satellite constellation.

AR STAKEOUT

The S1000 features a high-quality camera for user activated AR stakeout, displaying real time navigation and distance to target points. Visual guides ensure precise and efficient staking, simplifying fieldwork with intuitive direction and distance indicators.

LASER DISTANCE METER

The S1000 is equipped with an integrated laser distance meter, enabling accurate measurements in hard-to-reach or obstructed areas. This advanced technology enhances field efficiency by allowing surveyors to quickly collimate and capture precise point coordinates with just one click.

PHOTOGRAMMETRY

The S1000 features a rear camera optimized for photogrammetry, allowing users to capture detailed, high-quality images essential for precise three-dimensional mapping and modeling.

REMOVABLE BATTERIES

The S1000 is equipped with two rechargeable batteries that are removable and hot swappable, allowing surveyors to replace one battery without powering down the device.



Unlimited ways to MEASURE

The S1000 GNSS receiver combines advanced long-range green laser technology with high-precision photogrammetry, delivering unmatched versatility for all your measurement needs. By integrating these two powerful technologies into a single device, the S1000 empowers you to measure accurately in every application and under any field condition. Whether capturing detailed images for mapping or taking precise distance measurements in challenging environments, the S1000 ensures reliable performance and exceptional results every time.

sRTK

Equipped with a powerful sRTK engine, the new GNSS board delivers real-time centimeter-level accuracy with rapid convergence and exceptional reliability. Its innovative technology seamlessly combines Galileo's High Accuracy Service (HAS) with Extended RTK, intelligently integrating precise orbit and clock corrections. Thanks to sRTK, operators can maintain centimeter-level precision for up to 20 minutes even when RTK corrections are temporarily lost due to GSM or radio signal interruptions.



UHF RADIO and LoRa

The S1000 GNSS receiver features an advanced dual communication system that combines UHF radio in the 410 to 470 MHz band with innovative LoRa technology. The LoRa solution allows for flexible and reliable RTK correction transmission in base rover setups, extending operational range up to 12 kilometers or more in optimal conditions.

GNSS RECEIVERS
PRODUCT COMPARISON





		S599	S850	S880
CHANNELS		1408	1408	1408
SIGNALS TRACKING	GPS	√	√	√
	GLONASS	√	√	√
	BEIDOU	√	√	√
	GALILEO	√	√	√
	QZSS	√	√	√
	IRNSS	√	√	√
	SBAS	√	√	√
PPP (B2B PPP, HAS)		√	√	√
POSITION RATE HZ (UP TO)		20	20	20
IMU		√	√	√
MEMORY		8GB	8GB	8GB
BLUETOOTH		√	√	√
WI-FI		√	√	√
GSM LTE		NO	NO	√
RADIO		External	UHF 2 W + LoRa	UHF 2 W + LoRa
AR STAKE-OUT		√	NO	√
LASER DISTANCE METER		NO	NO	NO
PHOTOGRAMMETRY		NO	NO	NO
BATTERY		Integrated	Integrated	Integrated
WEIGHT		380 g	980 g	730 g
OPERATING TEMPERATURE		-30°C +65°C	-40°C +65°C	-40°C to 65°C
PROTECTION CLASS		IP68	IP67	IP68



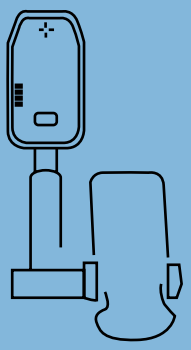




S950	S999	S1000
1408	1408	1600
√	√	√
√	√	√
√	√	√
√	√	√
√	√	√
√	√	√
√	√	√
√	√	√
50	50	50
√	√	√
64GB	32GB	32GB
√	√	√
√	√	√
√	√	√
UHF 2 W + LoRa	UHF 1 W Dual freq	UHF 2 W + LoRa
√	√	√
√	NO	√
NO	√	√
Integrated	Integrated	2 x Removable
810 g	1065 g	900/1100 g
-40°C +65°C	-40°C +65°C	-40°C +65°C
IP67	IP68	IP68

GIS, MOBILE GNSS & CONTROLLERS

SOLUTIONS FOR ACCURATE GEOGRAPHIC DATA FIELD COLLECTION

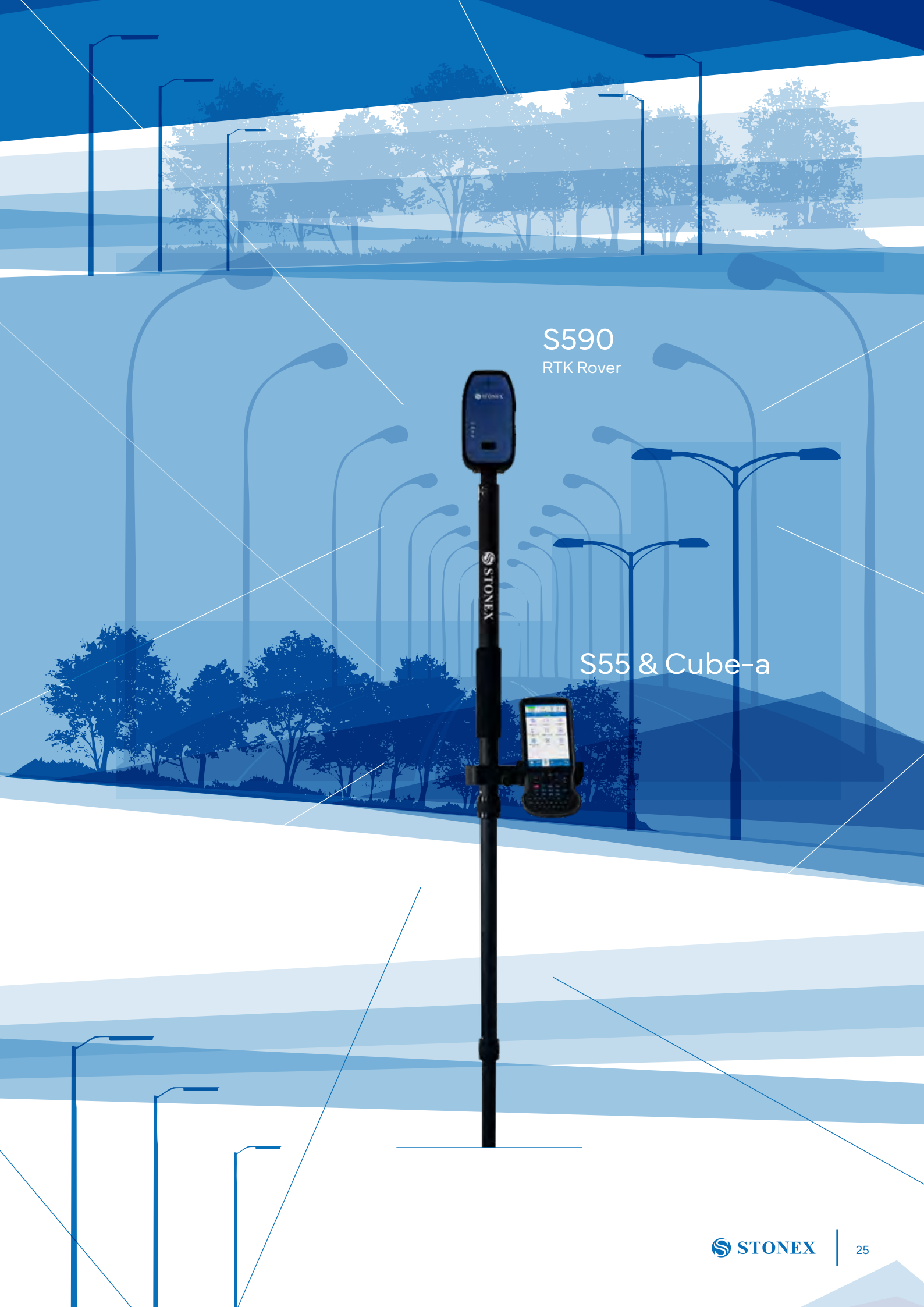


GIS solutions combine positioning, communications and software to equip the mobile workforce. GIS products greatly improve productivity in hundreds of industries by geo-enabling field workforces with precision, rugged and easy to use products.

Stonex provides a wide variety of applications to the GIS industry. All applications involve the use of innovative Stonex mobile solutions to allow organizations to integrate their field personnel into a bidirectional data flow. Powerful tools for display, query, and selection ensure that field personnel receive the maximum advantage for both the data they already hold and the data they are collecting.

S80G




S590
RTK Rover
S55 & Cube-a
STONEX

FROM GIS TO TOPOGRAPHY

S590

The S590 is a versatile GNSS receiver featuring a multi-constellation system that supports GPS, GLONASS, BeiDou, Galileo, QZSS, and IRNSS, with advanced PPP correction services available. It delivers centimeter-level accuracy through sophisticated technology that records raw data for post-processing, ensuring precision in demanding applications.

Equipped with cutting-edge IMU technology, the S590 allows for rapid initialization and accurate measurements at inclinations of up to 60 degrees. Connectivity is enhanced with multiple data transmission options, including Wi-Fi, Bluetooth, and external radio. Designed for durability, the S590 boasts an IP67 rating, making it resilient against dust and water exposure, ideal for harsh working environments.



MULTI-CONSTELLATION SYSTEM & PPP

The S590 features a multi-constellation system that includes GPS, GLONASS, BeiDou, Galileo, QZSS, and IRNSS. PPP correction services available (HAS and B2b).

HIGH PRECISION

Centimeter-level accuracy with advanced technology that allows for the recording of raw data for post-processing.

IMU TECHNOLOGY

The S590 is equipped with cutting-edge IMU technology, enabling rapid initialization and accurate measurements even at inclinations of up to 60 degrees.

DATA TRANSMISSION

S590 stays connected with versatile data transmission options including Wi-Fi, Bluetooth, and external radio.

RUGGED RTK

Built to endure, the S590 carries an IP67 rating, ensuring it can withstand harsh conditions such as dust and water exposure.



ROVER RTK WITH RADIO

The S590 is engineered as an RTK rover capable of receiving differential corrections from a network. Additionally, with the Stonex SR02 external radio, it can obtain RTK corrections from a base station that transmits data via UHF radio modem within the 410-470 MHz frequency range. The SR02 radio captures corrections from the base station and relays them to the S590 through Bluetooth using Cube-a technology.





SOLUTION FOR DRONE

The S590 can be used as a base station for drones, significantly enhancing the accuracy and reliability of aerial operations. The base station provides correction data to the drone (rover), enabling centimeter-level precision through Real-Time Kinematic (RTK) positioning. This functionality can be easily activated through the web user interface. The S590 can also be used to measure GCPs to improve the accuracy of the survey framing.



SEAMLESS INTEGRATION WITH SOFTWARE

The S590, thanks to the Cube-connector, a free app for Android devices, can work with popular GIS platforms, enabling users to utilize a wide range of applications for data collection and analysis. With the internal web interface or through the Cube-connector, the receiver can be configured and prepared to receive RTK differential corrections, making it ready to connect to any software for surveying or GIS.

CONTROLLER GNSS RTK

S55G



The S55G is an RTK GNSS receiver controller featuring a three-frequency GNSS board with an impressive 1408 channels, supporting multiple satellite constellations: GPS, GLONASS, BEIDOU, GALILEO, QZSS, and IRNSS. It operates on the Android 12 system, providing a simple and intuitive interface.

The controller is equipped with a remarkable 5.5" TFT display that boasts a resolution of 1920 x 1080 pixels and a brightness of 500 nits, along with a compact QWERTY keyboard. The S55G enables users to work in real-time with RTK corrections while simultaneously recording raw data for post-processing. It also supports the use of an external antenna SA85, which can further enhance the precision of the collected data, allowing users to achieve high accuracy in their field work, approximately < 1 cm.

MULTI-CONSTELLATION SYSTEM

Stonex S55G has integrated a three-frequency GNSS board with 1408 channels and can support multiple satellite constellations: GPS, GLONASS, BEIDOU, GALILEO, QZSS, IRNSS.

ANDROID SYSTEM

The receiver is managed through the Android 12 operating system with a simple and intuitive interface.

HIGH QUALITY DISPLAY

The high quality 5.5" TFT display has a 1920 x 1080 pixels resolution and a brightness of 500 Nits.

RTK AND POST-PROCESSING

S55G can work in real time with RTK corrections and simultaneously record the raw data for post processing.

KEYBOARD & LASER

The QWERTY keyboard features a full-sized layout in a handheld design. Additionally, the controller integrates a laser system.



S55G

WITH LASER POINT

LASER POINT

The integrated laser system of the S55G plays a crucial role in accurately identifying the ground point that is being surveyed or staked out. The laser is red and can be activated and deactivated directly in the acquisition window of the Cube-a software.

DECIMETRIC PRECISION

The S55G is capable of functioning without local RTK corrections by leveraging complimentary PPP correction services based on Galileo (HAS) or BeiDou (B2b), which guarantee decimetric accuracy.

COMPLETE OPERATIONAL CAPABILITY

The S55G is capable of functioning in real-time mode by utilizing RTK corrections sent from a network of GNSS Permanent Stations. Additionally, with the SR02 external radio, the S55G can operate in RTK mode by receiving corrections from a GNSS base receiver through UHF radio. Moreover, the S55G could record raw satellite data, facilitating post-processing in the office.

cube·a

Cube-a is Stonex' solution for professional surveying and GIS, specifically designed for the Android platform. This software includes a variety of features that contribute to its popularity among surveyors, such as an easy-to-use interface, comprehensive support for touch gestures, and multilingual capabilities. Cube-a is a modular application that can be tailored to meet specific needs; users can activate modules for GNSS, Robotic and Classic Total Stations, GIS, and 3D Modeling to address any requirements.

cube·connector

The Cube-connector is an Android application designed to link Android devices with Stonex GNSS receivers. To establish a connection with the GNSS, the Android device must be paired with the receiver via Bluetooth. Once this Bluetooth connection is established, Cube-connector will substitute the internal device's GNSS readings with those from the Stonex GNSS receiver. With the Stonex S55G, users can effortlessly utilize their GIS/survey software on the Android operating system through Cube-connector. The application manages all settings and configurations using integrated precision GNSS, making accurate coordinates available for third-party applications.

TABLET GNSS RTK

S80G



The S80G is a GNSS system that offers a range of features and capabilities for efficient data and photo collection in the field. It is a multi-constellation system, meaning it can utilize signals from multiple satellite networks, including GPS, GLONASS, Galileo, and BeiDou.

Furthermore, the S80G is a triple-frequency GNSS system, which means it can receive and process signals from L1, L2, and L3/L5 frequency bands. This triple-frequency capability enhances the system's precision and robustness, particularly in areas with potential signal interference or obstructions. The GNSS board of the S80G is equipped with 1408 channels, allowing it to track multiple satellites simultaneously. The S80G offers RTK (Real-Time Kinematic) and raw data recording capabilities, enabling users to capture high-resolution data and imagery. The S80G system comes with an antenna that is directly connected to the tablet, providing an RTK precision of 2 cm. However, the system also supports the use of an external antenna SA85, which can further enhance the precision of the collected data, allowing users to achieve even greater accuracy in their field work, approximately < 1 cm.

MULTI-CONSTELLATION SYSTEM

Stonex S80G has integrated a triple-frequency GNSS chip with 1408 channels and can support multiple satellite constellations: GPS, GLONASS, BEIDOU, GALILEO, QZSS, IRNSS.

ANDROID SYSTEM

The receiver is managed by the Android 13 operating system with a simple and intuitive interface.

HIGH QUALITY DISPLAY

The high quality 8" display has a resolution of 1280 x 800 pixels with 800 Nits brightness.

RTK AND POST-PROCESSING

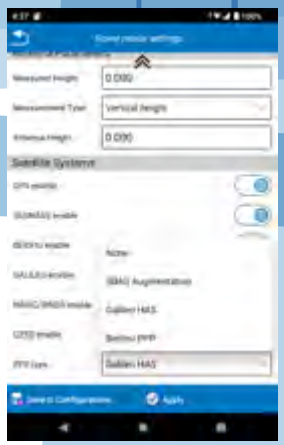
S80G can work in real time with RTK corrections and simultaneously record the raw data for post-processing.

RUGGED

Thanks to its IP67 rating, the Stonex S80G can withstand dust, dirt, sand, and water immersions.







HANDHELD GIS AND POLE-MOUNTED RTK RECEIVER

FREE PPP CORRECTION SERVICES

The S80G can operate even without local RTK corrections, utilizing free PPP correction services based on Galileo (HAS) or BeiDou (B2b) that ensure decimetric precision.



FULL OPERATING FUNCTIONALITY

The S80G can operate in real-time mode, utilizing RTK corrections transmitted by a network of GNSS Permanent Stations. The S80G, through the SR02 external radio, can also work in RTK by receiving corrections from a GNSS base receiver via the UHF radio. Additionally, the S80G can record raw data received from satellites, allowing for post-processing in the office.

cube-a

Cube-a is Stonex' solution for professional surveying and GIS, designed and developed for the Android platform. The software offers several features that make it a popular choice for surveyors, including a simple and intuitive user interface, full support for touch gestures, and multilanguage support. Cube-a is a modular application that can be customized as needed; GNSS, Robotic and Classic Total Stations, GIS, and 3D Modelling modules can be enabled to fulfill any customer need.

cube-connector

The Cube-connector is an Android app developed to connect Android devices to Stonex GNSS receivers. To connect to the GNSS, the Android device must be paired with the GNSS by Bluetooth. Once the Bluetooth connection has been established, Cube-connector will replace the GNSS readings from the internal device with the ones from the Stonex GNSS receiver. With the Stonex S80G, any customer can easily use their software for GIS/Survey in the Android operating system through Cube-connector. The application manages all settings and configurations with integrated precision GNSS and makes the correct coordinates available for third-party software.

RUGGED TABLETS AND CONTROLLERS

Android

The S80, S60 and UT56 stand as dependable Rugged Controllers, delivering high-performance standards. These Android mobile devices excel in field survey management, offering resilience against water, dust, and shocks (IP67-IP68), making them well-suited for operation in the most challenging environmental conditions. S80, S60 and UT56 come equipped with a range of technologies, including Wi-Fi, Bluetooth, NFC, GSM modem, and GNSS receiver capabilities.

S80 can be upgraded with a long-range Bluetooth module, extending connectivity for better performance in the field.



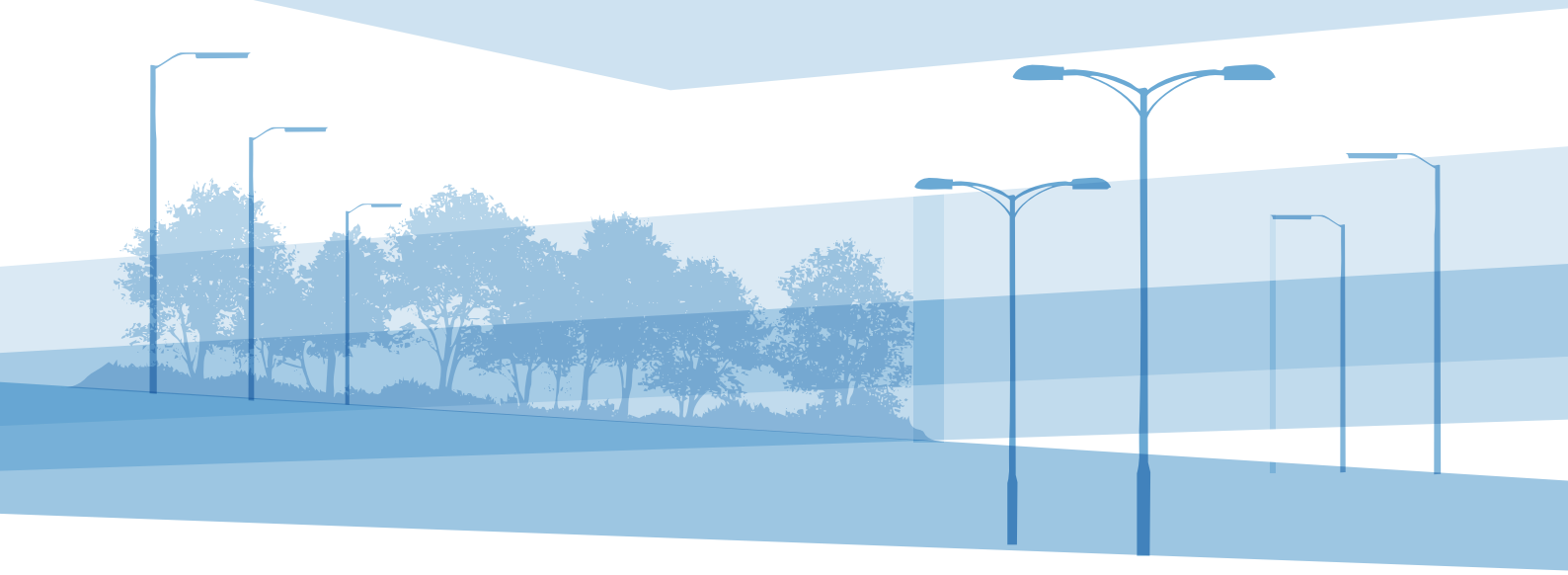
S80 | 8”



S60 | 6”



UT56 | 10.1”



Windows
SRT10W

SRT10W is a reliable Rugged tablet with high performance.

This Windows 10 mobile device is ideal for managing software applications for field survey and data collection. Resistant to water, dust and shocks (IP67) it is suitable for operating even in the most difficult environmental conditions. SRT10W is equipped with Wi-Fi, Bluetooth and GNSS technologies.



Android
Full Keyboard Survey Controller
S55

Stonex S55 is a handy and light device, it is perfect in situations where you need to regularly use the alphanumeric keyboard.

It is an extremely light but reinforced and protected controller, suitable for working in uncomfortable environments. Its low weight makes it perfect for applications without the use of supports or with light and minimal supports. The perfectly visible but small size screen allows the device to be compact, comfortable and easy to use.



TABLETS & CONTROLLERS

PRODUCT COMPARISON





		SRT10W	UT56
PROCESSOR		1.92 GHz	2.3 GHz
OPERATING SYSTEM		Windows 10 IoT	Android 10.0
RAM		4GB	4GB
FLASH MEMORY		64GB	64GB
DISPLAY		10.1”	10.1"
DISPLAY RESOLUTION		1280x800	1920x1200
BRIGHTNESS (NITS)		400	500
CAMERA		5 MP	13 MP
DATA COMMUNICATION	USB Type-C	NO	√
	Wi-Fi	√	√
	Bluetooth	√	√
	NFC	NO	√
GNSS		√	√
EXTERNAL RTK MODULE		NO	NO
GSM		NO	√
CHANGEABLE BATTERY		NO	NO
NR. BATTERY		1	1
WEIGHT		750 g	750 g
SIZE (MM)		270x183x16	268x183x14
OPERATING TEMPERATURE		-20°C +55°C	-10°C +55°C
PROTECTION CLASS		IP67	IP67







S55	S60	S80
2.0 GHz	2.4 GHz	2.0 GHz
Android 12.0	Android 14.0	Android 13.0
4GB	8GB	6GB
64GB	128GB	128GB
5.5"	6.0"	8.0"
1920×1080	1920x1080	1280×800
800	550	800
13 MP	8 MP	16 MP
√	√	√
√	√	√
√	√	√
√	√	√
√	√	√
√	√	√
4G	5G	4G
NO	√	√
1	1	1
420 g	390 g	656 g
228×96×21	194×93×15	235×146×15
-20°C to +65°C	-20°C to +60°C	-20°C to +60°C
IP67	IP68	IP67

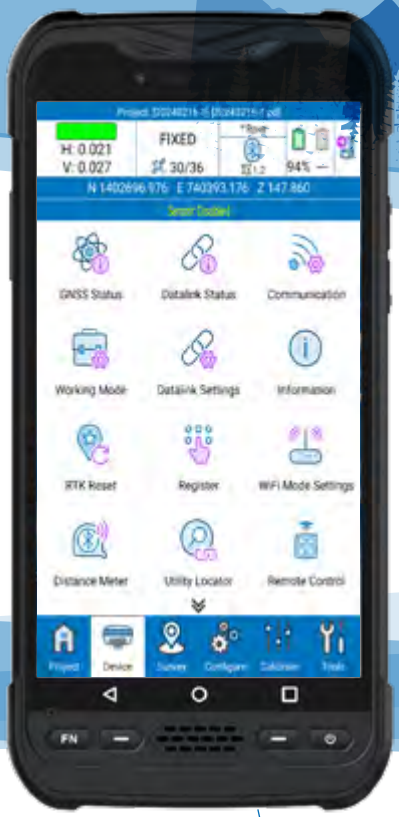
CUBE SUITE

STONEX COMPLETE FIELD & OFFICE SOFTWARE SOLUTION

Cube Suite is the complete software solution designed and developed by Stonex for in the field and in office use.

Work in the field with the software for GNSS RTK, GIS and Total Station surveying. Work in the office with software for data transfer, graphical visualization, analytical data processing and monitoring.

cube·a




cube·desk
STONEX

Stonex Cube-a is an advanced, all-in-one software solution specifically designed for surveying, geospatial, and construction professionals. Built for the Android platform and optimized for 64-bit architecture, Cube-a delivers a smooth, user-friendly experience that simplifies data collection, processing, and management, empowering surveyors to boost both productivity and accuracy in the field.

Seamlessly integrating with Stonex hardware, including GNSS receivers and total stations, as well as third-party devices, Cube-a offers a modular approach that allows users to activate essential features such as GNSS data management, robotic and mechanical total station support, GIS functionality, and 3D modeling capabilities. This flexibility ensures the software can be tailored to meet the unique needs of each user.
With support for touch gestures, Cube-a works effortlessly on smartphones and tablets, making it an ideal companion for fieldwork. Additionally, its multi-language support enhances its versatility, making it a powerful tool for a wide range of surveying and geospatial applications worldwide.

MAIN MODULES

Cube-a offers modular flexibility, enabling each of the main modules to be used individually or combined for mixed surveying, allowing users to seamlessly integrate different surveying techniques and maximize functionality based on their specific needs.

GPS Module

Cube-a is fully compatible with all Stonex GNSS receivers, providing seamless integration and quick pairing via RFID/ NFC Bluetooth tags and QR codes. Supporting a range of modes, including Rover, Rover Stop&Go, Base, and Static, Cube-a offers the flexibility needed for various surveying applications.
The software features multiple screens that provide essential real-time information on the GNSS receiver's status. Users can easily monitor key data such as position, Sky Plot, SNR levels, and the base position, ensuring a smooth and efficient surveying experience.



TS Module

Cube-a supports both mechanical and robotic Stonex Total Stations, enabling seamless wireless connections via Bluetooth and Long-Range Bluetooth. For robotic stations, it offers prism tracking and search capabilities.
This module includes features like compensator interface, station on point, and free station/least squares resection for precise setup and positioning. Additionally, the F1 + F2 automatic measure modes simplify measurements for both mechanical and robotic Total Stations, streamlining your workflow and improving accuracy.



Seamless Integration Between Total Station and GNSS Receiver

Cube-a seamlessly integrates Total Station and GNSS technologies, allowing surveyors to switch between them with a tap. This flexibility ensures the best measurement method for any scenario, making Cube-a ideal for various surveying tasks. It streamlines data exchange between the controller and Total Station, enabling field data acquisition, transfer, and copy without returning to the office.

ADD-ON MODULES

Cube-a provides the flexibility to extend the functionality of the main module, allowing for customization based on specific needs. These add-on modules can be seamlessly integrated with either the GPS or TS main modules, enhancing the system's performance and versatility.

GIS Module

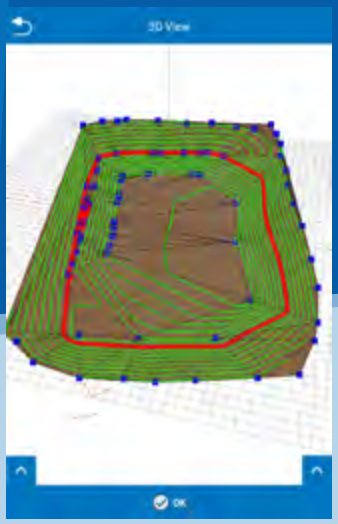
The Cube-a GIS Module is a powerful tool for capturing, analyzing, and managing spatial and geographic data within surveying workflows. It fully supports SHP format with all attributes, enables database management created by third-party software, and field editing of database fields, photo association, and creation of custom tabs. Ideal for industries such as urban planning, environmental management, and transportation, Cube-a enhances GPS workflows by automatically drawing vectors and allowing users to customize data forms through the Feature Set Designer. Cube-a supports shapefile, KML, and KMZ imports/exports, ensuring compatibility with a range of GIS software for easy data sharing. It also features a Utility Locator for mapping underground utilities with customizable attributes. The software prompts GIS data entry during point or vector acquisition and offers WMS layer visualization to streamline field operations and improve workflow efficiency.

3D MODULE

The Cube-a 3D Module enhances real-time surface modeling and road design by seamlessly integrating with DWG files for smooth compatibility with standard CAD drawings.

It also supports point cloud data, enabling users to create accurate 3D models, making it ideal for surveying and construction projects. The module includes advanced volume calculation tools for efficient earthwork and material quantification, supporting precise project estimation and resource management. Additionally, it simplifies the stakeout of centerlines and road alignments, ensuring accurate positioning according to design specifications. The module supports LandXML for importing and defining road elements and allows field editing. Customizable staking methods offer flexibility for precise elevation and station point measurements, making it adaptable to various project requirements.









MAIN FUNCIONALITIES

Native DWG and DXF format support

Cube-a transforms design and surveying workflows with enhanced CAD file interoperability and an intuitive interface. Supporting DWG and DXF formats, it ensures seamless integration with other CAD tools. Its powerful 2D and 3D rendering engine enables fast, detailed visualization, allowing real-time adjustments in both views. Tailored for surveyors, Cube-a features a touch-optimized interface, smart pointer tool, and intuitive object-snaps for easy field data integration. Streamlined stakeout commands provide both graphical and analytical indicators for accurate, efficient targeting.

Photogrammetry and AR

Within Cube-a, the functionalities of the GNSS receivers with cameras can be used. Cube-a simplifies point staking using the cameras of the receiver, the frontal camera which clearly displays the surrounding area to help surveyors accurately identify the point of interest. As the operator approaches, the system automatically switches to the lower camera of the receiver for precise framing, ensuring reliable measurements. Cube-a's interface uses visual aids to guide surveyors to the exact staking location, with a graphical display that indicates both the direction and distance to the point, adjusting as the operator gets closer. For measuring inaccessible points, Cube-a allows you to record a video of the area you want to measure. The system then extracts several photos that help align the points to be measured, providing calculated coordinates that can be easily recorded. This functionality also works offline, ensuring flexibility in various environments.



Point Cloud and Mesh

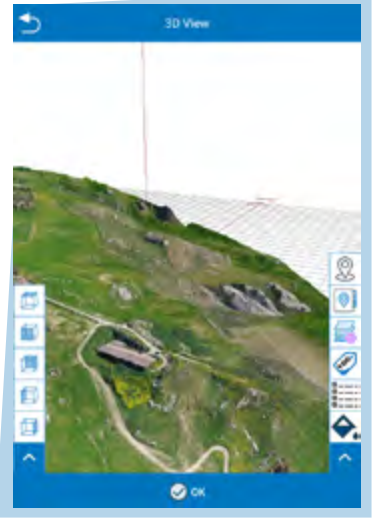
Supporting LAS/LAZ, RCS/RCP point clouds, OBJ mesh files, and XYZ files, Cube-a enables precise 3D visualizations from scanned data, efficiently handling large-scale datasets while ensuring near-real-time rendering of point clouds and meshes, providing high levels of detail and accuracy.

Cube-a offers powerful tools for real-time surface modeling, including perimeter selection, break-lines, and volume calculations. Users can choose from multiple display modes, such as wireframe and shaded triangles, and seamlessly export surface data in various formats for further analysis.

In addition to 3D modeling and point cloud integration, Cube-a supports industry-standard DWG files, allowing for easy import, export, and collaboration across different CAD platforms. This ensures smooth integration into existing workflows and enhances project efficiency.

Cube-a's volume calculation tools allow users to define and compute volumes, as well as perform cut-and-fill operations or material quantification. This functionality is invaluable for tasks such as earthworks, mining, and construction, where accurate volume measurements are crucial for cost estimation and resource management.





cube-desk

Cube-desk is a topography software equipped with its own built-in CAD engine, featuring tools, entities, and functions specifically designed for surveying applications. Its purpose is to provide surveyors with a comprehensive and reliable platform to manage every stage of their work, from field data collection to the preparation of final deliverables. The software can acquire data from most surveying instruments available on the market and has been specifically designed to simplify import and export workflows with all Stonex instruments.

Cube-desk is available in two versions: the BASE version, which includes essential tools for downloading data from third-party and Stonex' instruments, managing photogrammetry projects, performing CAD design and drafting, and handling coordinate systems; and the FULL version, which offers advanced features such as contour generation, 3D modeling, point cloud management, cross-section creation, and raster data integration. With its optimized workflow, Cube-desk ensures reliable data transfer between field and office systems, enabling smooth and efficient data exchange. It allows users to import, analyze, and prepare surveying data for further processing and the creation of professional deliverables. Thanks to its closed-loop system, the software provides complete control and traceability of measurements throughout the entire workflow, from data acquisition to project completion.





Cube-desk BASE

Data management

- Import and export data from all stonex instruments
- Import and export data from total stations of other brands
- Enter measurements manually or import them from ascii files
- Import all survey-related attributes and features
- Manage all survey information
- Import data in gis formats

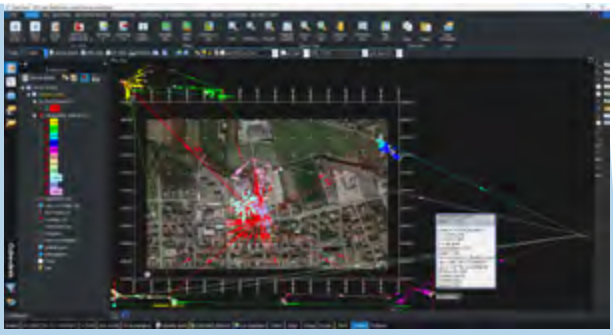
CAD

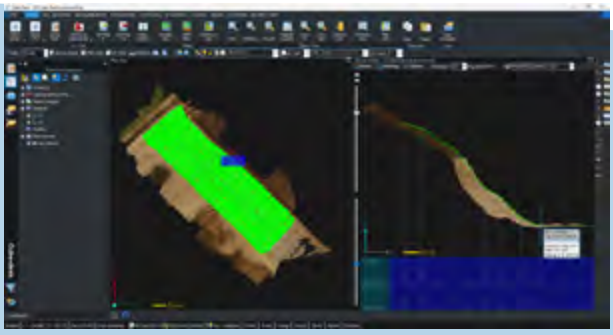
- Full dynamic snap functionality
- Work with imported maps
- Basic management of raster images
- Full reading and writing support for DXF/DWG files



Photogrammetry

- Import survey projects acquired with S999 and S1000 instruments
- Access comprehensive image databases and photo collections
- Select and identify features directly on captured images
- Manage point codes, organize layers, and import data into the current project





Cube-desk FULL

3D & Machine Control

- Generate digital terrain models (DTM)
- Reconstruct contour lines
- Perform volume calculations
- Process digital elevation models (DEM)
- Calculate terrain cross-sections
- Access commands for 3D design and modeling
- Define various types of leveling and grading
- Generate terrain maps
- Create terrain profiles
- Obtain cross-sections along profiles
- Generate elevation profiles
- Calculate terrain sections

Agriculture

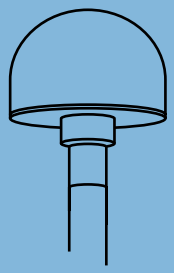
- Design embankments and insert ditches
- Perform dynamic constrained intersections based on previous design work

Point Cloud

- Load point clouds to create 3D models and perform volume calculations
- Clean and remove unnecessary points from the cloud
- Extract sections from a point cloud and visualize them along with elevation lines
- Extract data from a point cloud to obtain various survey information
- Plan drone flight missions

NETWORK & MONITORING

HIGH QUALITY AND PERFORMANCE GNSS REFERENCE RECEIVERS



Stonex technology for GNSS reference stations and network solutions continues to evolve and meet the rapidly changing demands of GNSS technology. Stonex CORS (Continuously Operating Reference Station) are flexible, adaptable, and offer multiple solutions.

Stonex CORS meet the highest demands for reliability and work in the toughest environments. Professionals put them to work on any type of GNSS applications, from campaign and permanent single base stations to RTK networks, from structural monitoring to offshore positioning, or atmospheric research to seismic studies.



SC650



SC2200





SA1800
3D Choke Ring

SA1100
Mini Choke Ring

GNSS
REFERENCE STATION

CORS receivers can be used for either the start of a new infrastructure network or for an integration into existing networks. It is possible to use CORS receivers as a rover for special applications and with several software solutions according to the customer's request.

The Stonex CORS are GNSS multi-frequency receivers designed to be used either as stand-alone Reference Stations or as part of a GNSS stations' infrastructure. Stonex CORS are typically used as NTRIP server and they are the ultimate equipment for all those jobs that are based on GNSS data acquisition and processing; moreover, the stations also support the recording of raw data with a high frequency of acquisition.



SC650







SC2200





cube-cors

Stonex CORS can output data in proprietary format and all data in standard format (NMEA and RTCM) to be compatible with all types of applications, especially for corrections distribution. Cube-cors is the software designed for remote management of Stonex CORS. With this software, customers can check the status, change parameters and configuration for all receivers in the field. With Cube-cors you can also update the firmware and manage the recording session with a back-up procedure to simplify the management of the receiver infrastructure.

GNSS
ANTENNAS



HIGH PRECISION ANTENNAS FOR ALL SURVEY WORKS

The Stonex family of GNSS antennas are designed to enhance and support the performance of Stonex receivers. The antennas receive GNSS multi-constellation signals.

Each antenna is built to withstand various application and surveying needs. The Stonex antennas can be used in land survey, marine survey, landslide monitoring, infrastructure monitoring (such as dams and bridges) and agriculture applications. They have high gain and wide beam width to ensure the signal receiving performance of satellite at low elevation angle. The phase center of these antennas remains constant as the azimuth and elevation angle of the satellites change. Signal reception is unaffected by the rotation of the antenna or satellite elevation, so placement and installation of the antenna can be completed with ease.

SA1800
3D Choke Ring







SA1500
2D Choke Ring





SA1100
Mini Choke Ring





SA1200
3D Choke Ring



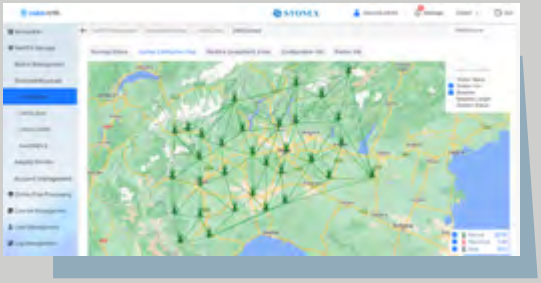
SA85
Geodetic Antenna

cube-nrtk



Cube-nrtk is a GNSS software designed for managing GNSS station networks. Utilizing data from reference stations in real-time, it calculates a network solution to provide users with accurate positioning. The software offers an intuitive graphical interface for real-time monitoring of network performance and user activity. It efficiently manages the four major constellations: GPS, GLONASS, Galileo, and BeiDou, across three frequencies.

Additionally, it supports various network solutions such as Virtual Reference Station (VRS), Master Auxiliary Concept (MAC), and Flächen Korrektur Parameter (FKP). Cube-nrtk is offered in two versions, Cube-nrtk BASE and Cube-nrtk FULL, allowing users to exploit the software modules according to their specific needs. In particular Cube-nrtk BASE offers all the needed modules to set up a caster solution with single base and nearest corrections, while Cube-nrtk FULL includes all the software modules for the complete network solution. At any moment, it is possible to upgrade from the BASE version to the FULL version.



cube-nrtk

Main Modules

The Cube-nrtk software, in its FULL version, consists of several different modules.
The most important ones are:

GNSSRECEIVERS
A module that enables connection with all receivers within the network.

SSDATAQC
This module allows for a quality check of the data received from the stations. It provides useful information such as the ratio between acquired observations and possible observations, cycle slips, and the mean multipath on the different frequencies acquired.

GNSSSUBNET
The main component responsible for network definition and calculation of differential corrections.

GNSSCASTER
A module for distributing differential corrections to users.

STARTKMONITOR
In this module, the coordinates of reference stations are calculated in real-time, and any deviations from the reference coordinates set by the user are displayed.

All those modules can be accessed by the system administrator through both a desktop interface and a Web-UI. Cube-nrtk adopts a distributed architecture concept which is based on the fact that different modules can be installed on multiple servers. This ensures high scalability and the ability to support very large networks and high numbers of concurrent users. Users can apply for registration to the service, and once approved, they can request data from physical or virtual stations. The manager can monitor the status of the network and user activity in real-time, publish information, and view reports.

Software Configuration and Management



The software is configured through a graphical and intuitive interface in a few simple steps:
SYSTEM CONFIGURATION; caster address and port, data storage, automatic start settings.
STATION CONFIGURATION; connection settings, general information, antenna type, coordinates.
NETWORK CONFIGURATION; composition of one or more sub-nets based on the available stations.

The FULL version includes a web interface through which users can register and later request station RINEX or Virtual RINEX files. Additionally, the software includes an online post-processing service. A solution integrity monitoring system is also included in the software. Specifically, it displays ionospheric activity, analyzes station data quality, and provides real-time results for baselines.

GNSS
TECHNOLOGIES

The software supports the following constellations:

GPS
GLONASS
BEIDOU
GALILEO
The differential corrections provided by the software can be utilized by receivers of any type.



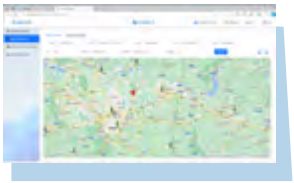
Supported input formats are:

RTCM2
RTCM3
RAW DATA FROM STONEX RECEIVERS AND MAJOR RECEIVER MANUFACTURERS



The software supports the following methods of connecting the receivers:

TCP SERVER
TCP CLIENT
NTRIP CLIENT
SERIAL PORT



The software supports the following methods of connecting the receivers:

NETWORK SOLUTION: The software supports common differential correction products such as Virtual Reference Station (VRS), Master Auxiliary Concept (MAC), and Flächen Korrektur Parameter (FKP).
REAL STATION: The software provides real-time data from network stations, with the option to automatically receive data from the nearest station (NEAR), chosen by the software based on the rover's position.

Real-time products are distributed through an NTRIP Caster. For users engaged in post-processing, real station data is available in standard RINEX format with sampling down to 1 Hz. Cube-nrtk also provides the option for Virtual RINEX points within the network.

Cube-h24 is a suite of software design for monitoring application, it gathers information about a chosen site and allow surveyors and engineers to remotely evaluate the collected data. This software is developed for Microsoft Windows and Linux OS, it offers the possibility to download, manage, and process the data collected thanks to the use of one or more sensors, in the monitoring site.

The presence of a Web interface enriches the functionality of Cube-h24, allowing the user to configure working parameters, check and publish the calculation results. This software will help operators, providing the best functions for data transferring, graphical visualization, and alarm system management.



GN

Cube-h24 GN has been designed to manage GNSS cors receivers in order to control the movements of points, in natural places or artificial structures, considered to be at risk of stability. The materialization of the points is made with appropriate solutions, to ensure the sensor stability, to reach maximum accuracy with low level noise. Cube-h24 GN is a software dedicated to the processing data. It's the solution to automate the process of post-processing, reading RTK data and saving to database.

MULTI OPERATION SYSTEM
MULTI OPERATIONS PARALLEL
ROBUST ENGINE

Main features:

WEB BASE APPLICATION
DESIGN SURVEY SCHEMA
SCHEDULER FOR AUTOMATIC CALCULATIONS



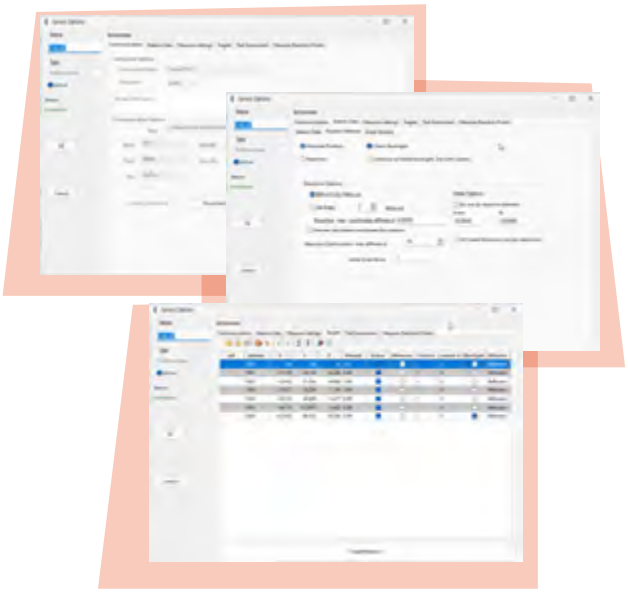


cube-h24

TS

Cube-h24 TS is software dedicated to the remote management of TS for monitoring.
The software can be installed on a variety of devices, but to ensure maximum 24/7 performance it is delivered together with a rugged hardware solution.
It is able to communicate with the TS via both Bluetooth and serial cable, in order to measure the desired targets on specific schedule, covering all the aspects of the surveying measuring procedure and upload the measurements to a database or FTP server.

MULTI OPERATION SYSTEM
VERY LIGHT APPLICATION
MULTI LANGUAGE
SUITABLE FOR PERIOD OR CONTINUOUS OPERATION



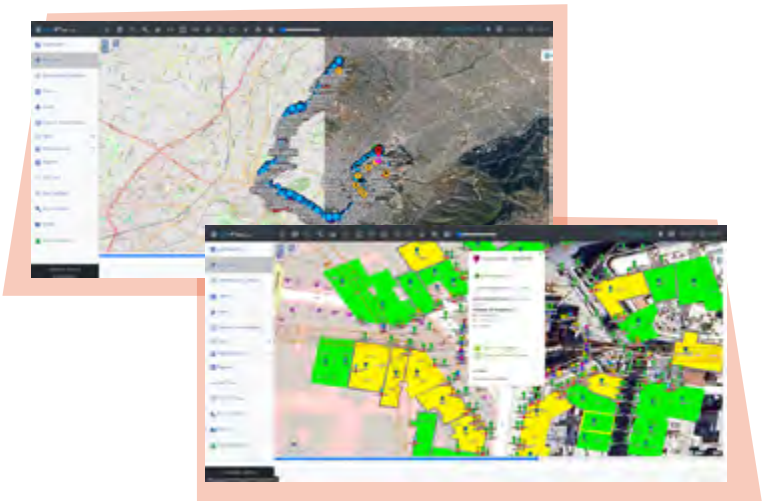
Main features:
TS CONNECTIONS (BT AND SERIAL CABLE)
MULTI STATIONING STRATEGIES
MULTI MEASUREMENT SETTING
SCHEDULERS
DATA UPLOAD TO SERVER
REMOTE CONTROL
ALARM AND REPORT

cube-h24

WEB

Cube-h24 web is the data publishing platform. It's a web base application design for specialist and final customers. It allows multiple projects to be managed and provides the correct information for interpreting site events to be monitored. Using this platform, engineers can inspect measurements from variety of topographic, geotechnical and environmental sensors.

MULTI LEVEL USERS
MULTI SITES
ROBUST DATABASE FOR LONG DATA SERIES
MULTI CUSTOMIZABLE ALARMS
MULTI SENSORS INTEGRATION



Main features:
VIEW VECTOR DISPLACEMENT HISTORY
VIEW VERTICAL DEFORMATION HISTORY
CUSTOM CHART
ALERTS
AUTOMATED REPORTING SYSTEM

Supported sensors
SURVEY INSTRUMENTS
GEOTECHNICAL SENSORS (PIEZOMETERS, LOAD AND PRESSURE CELLS, TILT SENSOR AND OTHER...)
METEOSTATION
GEOLOGICAL DATA

TOTAL STATIONS

HIGH TECHNOLOGY AND QUALITY

Stonex Total Stations are simple and durable, designed and built to meet all Customer's needs, enabling ease of use for everyone in full autonomy.

Fast, intuitive, reliable, and precise, GN Total Stations are optical precision tools designed to support high-quality professionals in all types of topographic jobs, ensuring high performance for surveying and engineering.

R180



R120



R40



R20



R60



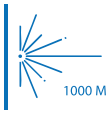
HIGHLY ACCURATE AND EFFICIENT TOTAL STATION

R20



The R20 range is composed of 3 versions, the R20 1000 m model with 2" angular accuracy, the R20 1000 m model with 1" angular accuracy and the R20 600 m model with 2" angular accuracy. The three models offer optimum performance up to 5000 m with prism and 1000 m or 600 m reflectorless.

The entire R20 range is equipped with a high-performance, illuminated reticle telescope that provides the best quality of observation, whatever the environmental conditions. The programs on board of these models of total stations make them suitable for any work in construction, cadastral, mapping and staking, through a user-friendly interface. Thanks to the presence of Bluetooth connection, it is possible to connect an external controller, giving the possibility to use a customized field software.



LIMITLESS DISTANCE MEASUREMENTS

By using a digital phase laser ranging technology, R20 guarantees high accuracy measurements: 1000 m or 600 m (depending on the model) in reflectorless mode and up to 5000 m using a single prism, with millimeter accuracy.



FAST, ACCURATE, RELIABLE

Measuring distances with high angular accuracy make any job extremely cost effective and reliable. The wide range of application software allows to complete the Surveyor's tasks directly in the field.



ONE DAY OF CONTINUOUS FIELD WORK

Thanks to the low power consumption circuit design R20 gives the opportunity to continuously work for more than 22 hours.



ANDROID TOTAL STATION

R60

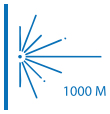


The R60 is a device with a 5.5-inch touch screen and the Android operating system, which provides users with a smartphone-like experience in terms of ease of use and familiarity. With the Android OS, operators can easily access a wide range of features and functions, making their work more efficient and productive. Additionally, the system's versatility and customization options make it an ideal choice for those looking for a flexible and adaptable operating system.

The R60 features Cube-a software, which allows for a new horizontal view and integration with GNSS surveys. The operator can use background maps and exchange functions between the TS and remote controller (GNSS) with Bluetooth, without the need for cables. The R60 is available in two versions, one with an accuracy of 2" and endless drives, and the other with an accuracy of 1" and lock drives. With a prism, the instrument has an accuracy of 2 mm + 2 ppm, and it can measure reflectorless up to a range of 1000 m.

ANDROID 11 OS

The Android 11 operating system provides a multitude of possibilities for operators, allowing for easy touch management of jobs and the ability to work with convenient background maps. This operating system enhances the user experience and provides a user-friendly interface.



UP TO 1000 M REFLECTORLESS

The R60, available in both 1" and 2" versions, can obtain highly accurate long-range measurements. It can measure up to 1000 m without a prism and up to 5000 m with a prism, all with millimeter precision. This level of accuracy makes the R60 a reliable and efficient tool for a variety of applications, from construction and surveying to engineering and beyond.

CUBE-A ON BOARD

Cube-a software, pre-installed on the R60 Android total station, offers a range of features designed to improve the efficiency and accuracy of surveying work. Among these features is direct I/O support for TS and Bluetooth support for GNSS, enabling the integration of data from various sources.



ANDROID TOTAL STATION

R40



R40 is a mechanical total station featuring Android 11 Operating System and equipped with Cube-a software on board. Designed for accuracy and efficiency, it is available in two versions with 1"/2" angular accuracy, and features accuracy on distance measurements of 2mm + 2ppm in prism mode and 3mm + 2ppm without prism. The possibility to measure up to 5000m with prism and 1000m in reflectorless mode makes it a versatile instrument for various surveying tasks.

Equipped with 4GB RAM and 64GB ROM, it supports efficient data processing and storage. With built-in GSM connectivity, the R40 allows the user to stay connected in the field, sending and receiving data or accessing remote support. R40 is characterized by Cube-a onboard application, that can integrate and manage GNSS survey data and total station information for streamlined data management. Bluetooth supports easy data transfer between the station and other devices, while dual 5.5-inch TFT LCD screens provide clear visibility in any lighting. The intuitive 13-key keypad ensures quick access to essential functions, making fieldwork easier than ever.

ANGLES AND EDM

R40 is available with an angle accuracy of 1"/2. It offers precision measurements of 2mm + 2pm in prism mode and 3mm + 2pm in reflectorless mode. This instrument is capable of measuring distances up to 5000m with a prism and 1000m in reflectorless mode.

PERFORMANCE

The total station features 4GB of RAM and 64GB of ROM, providing ample memory for efficient data processing and storage. R40 is equipped with a GSM module able to guarantee connectivity right in the field and transfer data between the field to the office in a very fast and simple way.

ANDROID AND CUBE-A

R40, with Android 11 operating system and pre-installed with the Cube-a software, facilitates the integration of data from GNSS surveys and total stations. Bluetooth simplifies communication and data exchange between the station and the GNSS controller.

DISPLAY AND KEYBOARD

R40 mounts two high-quality 5.5-inch TFT LCD screens boasting a resolution of 720 × 1280 pixels. In addition, the total station is equipped with an intuitive 13-key keypad, designed for efficient operation and quick access to essential functions, and a trigger key to start the measurement.



cube·a

ONBOARD SOFTWARE

Cube-a provides the flexibility to extend the functionality of the main module, The Cube-a software, pre-installed on the R40 Android total station, offers a wide range of features designed to enhance the efficiency and precision of surveying tasks. Notable capabilities include direct I/O support for total stations and Bluetooth connectivity for GNSS receivers, allowing seamless integration of data from multiple sources.

INTEGRATED CAD

During both the survey and staking phases, Cube-a enables operators to work in a simple, intuitive manner, enriching field data with overlays from Google Maps or user-imported cartography. With a powerful built-in CAD system, Cube-a allows operators to complete point measurements directly in the field by adding graphic elements, producing a fully detailed restitution that's ready for immediate use.

EASY DATA TRANSFER

Cube-a also supports efficient data exchange between the total station and a remote controller. This transfer can be done via Bluetooth or Wi-Fi, eliminating the need for cables and simplifying the workflow. Thanks to its advanced features and user-friendly interface, the R40.
Android total station is a powerful tool for any surveying project.



ANDROID ROBOTIC TOTAL STATION

R120

R120 is a robotic Android total station that provides exceptional precision with an angular accuracy of 1" (2" & 5" available) and an electronic distance measurement (EDM) accuracy of 1mm + 1ppm. It operates effectively up to 1000m (800m for 2" & 5" version) in reflectorless mode and features a rotation speed of 60° per second. This instrument combines the capabilities of a robotic station with excellent cost-effectiveness.

The R120 is designed with a 5.5-inch color touch screen and runs on the Android operating system, making it user-friendly and similar in interface to a smartphone, which enhances data exchange capabilities. The onboard Cube-a software allows operators to seamlessly integrate GNSS tasks with surveys performed using the total station.
Communication and data transfer between the station and the controller are facilitated via a Bluetooth connection. Additionally, the R120 has an integrated modem, enabling the operator to connect to the internet and send and receive topographic data.



DC SERVO MOTOR

The R120 Robotic Total Station boasts maximum rotation speed of 60 degrees per second, ensuring accurate and controlled rotation. It can switch between Face 1 and Face 2 in just 2.9 seconds, enabling efficient and rapid measurements.

HIGH MEMORY CAPACITY

R120 has 4GB of RAM and 64GB of internal storage, providing a good balance of memory for multitasking and storing files.

4G MODEM

R120 can fully utilize its SIM card port and integrated modem. The operator can connect to the internet to send and receive topographic data.

ANDROID AND CUBE-A ON BOARD

The Android System multiplies the possibilities for operators who can have touch management of jobs and work with convenient background maps. Thanks to this operating system, it is possible to use the total station in a simple and intuitive way, as if it were a smartphone.



cube-a

The R120 is equipped with the Android operating system and comes pre-installed with the powerful Cube-a program. This onboard software allows operators to easily integrate data from GNSS and surveys conducted with the total station. Communication and data exchange between the station and the controller (GNSS) is made simple with a Bluetooth connection. This means that with the total station, surveys carried out with GNSS, can be loaded through an external controller via Bluetooth. These surveys then can be completed within the total station. With Cube-a, users can navigate the program easily and efficiently, accessing all the classic functions of a total station while enjoying the added benefits of the Android operating system. This integration allows for seamless and streamlined workflows, saving time and effort while achieving the highest level of accuracy.

Fast360

The state-of-the-art robotic total station features a cutting-edge 360° prism search technology that allows users to locate their target quickly and accurately from any angle. This advanced capability enables surveys to be completed with greater speed and precision, all while enjoying the convenience of a fully automated system. If the lock is lost, the total station, thanks to Fast360° technology, can quickly find the prism. This can be done through the Cube-a, simply by pressing a command, or by manually managing the search through an interface with joystick functionality.

APC

R120 is designed with automatic prism centering technology that takes the guesswork out of surveying. With this advanced system, users can easily and quickly center their prism with minimal effort. Thanks to the total station's automatic centering feature, surveying processes can be streamlined and made more efficient. Users can simply position the total station near their target and let the system take care of the rest. The automatic prism centering technology will quickly and accurately locate the prism and center it for the most precise measurements possible.

OnePole

The OnePole Solution is a surveying system that combines the high accuracy of prism measurements with the ability to measure points that are not visible from the Total Station (TS) using GNSS technology. While a TS requires reference points that must be visible from the station, an RTK GPS receiver can quickly determine its position with centimeter-level accuracy using data from satellites. The OnePole Solution allows for the simultaneous use of TS and GNSS and can easily switch between the two with a simple tap on a button. Additionally, the system reduces prism search times through auto-aiming to the current GNSS position.

HIGH PRECISION ROBOTIC TOTAL STATION

R180



The R180 is a highly accurate and fast Android robotic station. It features a rotation speed of 180°/sec and an EDM accuracy of 1mm + 1ppm, with a range of up to 1000m without a prism. The R180 is available in three versions, 0.5",1" and 2" second. For all models, the quietness and smoothness in prism searches and rotations are among the most observed and appreciated features.

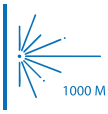
Equipped with the Android operating system, the R180 comes with Cube-a as onboard software. Android enables easy and intuitive touch-screen navigation, allowing users to interact with the device in a familiar way.
The Cube-a onboard software includes all the classic functions of the program, as well as the integration of jobs done with GNSS receivers and surveys done with the total station. This allows operators to achieve complex and professional work in a short time and with high accuracy.
Additionally, the R180 has a camera and a light guide to further facilitate field work.

TDRIVE MOTOR, FAST AND SILENT

The R180 Robotic total station boasts a rotation speed of 180°/sec, making it one of the fastest in its product category. Not only is it speedy, but it is also impressively quiet, with noise levels among the lowest in its class. Additionally, the Tdrive technology, with a very high speed motor, allows for high-speed pursuit, even with a prism installed on moving vehicles. Not using gear technology ensures frictionless movement, greater durability, and less maintenance.

HIGH ACCURACY AND PROFESSIONAL RESULTS

This instrument is top-of-the-line. Its detailed engineering allows for exceptional performance, achieving an accuracy of 1 mm + 1 ppm with a prism, at a measurement speed of significantly less than one second.



LONG DISTANCE REFLECTORLESS

R180 guarantees high accuracy long range measurements: up to 1000 m in reflectorless mode and up to 6000 m using a single prism, with millimeter accuracy.

BUILT-IN CAMERA

The R180 is further enhanced by the addition of a built-in camera, which can be utilized thanks to the presence of two 6-inch screens. This camera allows you to view the points operator have surveyed on the large screens, or to use the image to help with collimation.

ANDROID AND CUBE-A ON BOARD

R180 is equipped with an Android operating system and has Cube-a installed on board. The 6-inch touch screens allow you to have complete control of the station.



cube-a

The R180 is equipped with the Android operating system and comes pre-installed with the powerful Cube-a program. This onboard software allows operators to easily integrate data from GNSS and surveys conducted with the total station. Communication and data exchange between the station and the controller (GNSS) is made simple with a Bluetooth connection. This means that with the total station, surveys carried out with GNSS, can be loaded through an external controller via Bluetooth. These surveys then can be completed within the total station. With Cube-a, users can navigate the program easily and efficiently, accessing all the classic functions of a total station while enjoying the added benefits of the Android operating system. This integration allows for seamless and streamlined workflows, saving time and effort while achieving the highest level of accuracy.

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TOTAL STATIONS

PRODUCT COMPARISON



	R20 600m - 1000m	**R40**
ANGLE ACCURACY	1" / 2"	1" / 2"
PRISM MEASUREMENT	5000 m	5000 m
PRISM ACCURACY	2 mm + 2 ppm	2 mm + 2 ppm
REFLECTORLESS MEASUREMENT	600–1000 m	1000 m
REFLECTORLESS ACCURACY	3 mm + 2 ppm	3 mm + 2 ppm
DISPLAY	2 Color	2 Color Touch
OPERATING SYSTEM	Proprietary	Android
MEMORY (RAM/ROM)	>80000 points	4GB/64GB
BLUETOOTH	√	√
WI-FI	No	√
USB	√	√
GSM	No	√
GUIDE LIGHT	No	No
H-V MOVEMENTS	Lock drives	Lock drives
OPERATION TIME	22 hours	10 hours
WEIGHT	5.6 kg	5.9 kg
OPERATING TEMPERATURE	-20°C to +50°C	-20°C to +50°C
PROTECTION CLASS	IP65	IP55







R60	R120	R180
1" / 2"	1" / 2" /5"	0.5" / 1" / 2"
5000 m	3500 m	6000 m
2 mm + 2 ppm	1 mm + 1.5 ppm	1 mm + 1 ppm
1000 m	800-1000 m	800–1000 m
3 mm + 2 ppm	3 mm + 2 ppm	2 mm + 2 ppm
1 Color Touch	2 Color Touch	2 Color Touch
Android	Android	Android
4GB/32GB	4GB/64GB	3GB/32GB
√	Long Range	Long Range
√	√	√
√	√	√
No	√	√
√	No	√
Lock / Endless	Motorized	Motorized
9 hours	12 hours	12 hours
6.5 kg	7.0 kg	9.3 kg
-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
IP55	IP55	IP65/IP66

PRODUCT FEATURES

SLAM

Stonex offers a wide range of SLAM products, capable of generating high-precision point cloud data. All the devices are equipped with LiDAR, a camera for texture information along with an inertial navigation module.

The integrated structure includes storage system and built-in replaceable batteries. Mapping results are visible in real time from the GOapp. GOpost can perform post-processing of collected data, generate high precision colored point clouds, produce panoramic images and integrate GNSS data. The uniqueness of Stonex SLAMs is in the stability and strength of the algorithm, which is able to reconstruct complex scenarios that are not trivial for this type of technology.



RAPIDITY AND REDUCED WORKLOAD

No more multiple scan station, just move around the scene to collect the entire 3D point cloud, without time consuming cloud to cloud alignment.



REAL TIME PREVIEW

Track real-time LiDAR acquisition with colour-mapped coverage indicators via the dedicated Android app directly in the field.



AUTOMATIC CONTROL POINT MEASUREMENT

When capturing data, the device is able to collect reference points too. They can be matched with known control points to georeference or compensate the scans, or to check the final quality of your survey.



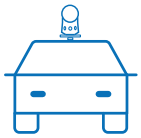
STRONG ALGORITHM, RELIABLE DELIVERABLE

Data processing can be done in a few clicks, obtaining the best result for the situation, even processing batches of scans. In the case of special environments, the processing parameters can be edited to maximise the quality.



GEOTAG COLLECTION

Directly in the field you have the possibility to take pictures or add notes related to your position. Those information will be availble and consultable inside the point cloud.



WIDE RANGE OF ACCESSORIES

Stonex SLAMs are equipped with a very interesting range of accessories, which facilitate its use in the field and cover different scenarios. Backpack, shoulders hook or vehicle mount platforms allow to cover long trajectory effortlessy.

X-WHIZZ MODE

X70^{GO}, X120^{GO} and X200^{GO} models merge mobile and stationary surveying. The advantageous SLAM solution that allows you to survey large areas in a very short time, they combines a stationary mode to scan with higher resolution. Mount the device on a monopod and stand still in key areas for a few seconds. It is the perfect trade-off for those who need speed and detail in a mobile survey.



X200^{GO}

The rotating head has 32-channel sensor with 300 meters range and 3 returns. Embedded GNSS board and two 12 Mpx cameras, which provide texture information and panoramic images. Colour information is available in real-time and mapped results are generated immediately inside the scanner: choose if you want to improve their accuracy postprocessing with GOpost software. The high precisions IMU makes the product versatile, even for use on UAV drone.



X120^{GO}

The new X120GO features a rotating LiDAR head with a 16- or 32-channel sensor. Aesthetically similar to the X200^{GO} model, with which it shares much of the same hardware, it stands out for its range of up to 120 meters, 360° x 290° coverage, and the ability to detect two returns instead of three.



X70^{GO}

It integrates a 360° rotation head with 70-meters range LiDAR , a 12 MPx visible-light camera which provides texture information, and a visual camera that guarantees stronger real time preview with GOapp. Mapping results are generated immediately inside the scanner, right after scanning: choose if you want to colour them and improve their accuracy, postprocessing with GOpost software.



X40^{GO}

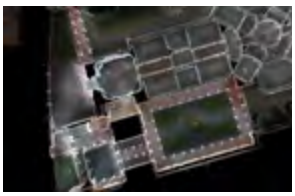
Equipped with the same sensor as the X70^{GO}, the lidar does not have a rotating head but its orientation is designed to maximise coverage. The 12 Mpx camera has a wide FOV for point cloud colouring. An affordable and simple product, the ideal for interior surveys and layout generation.

SLAM

SIMULTANEOUS LOCALIZATION AND MAPPING

STONEX SLAM technology delivers more range, more points per second and best in class on board processing algorithms to reach unmatched speed of capture and reliability even in the more demanding environments.

APPLICATION



BIM & REAL ESTATE

Gather a complete 3D model of civil or industrial structures with a simple walk-through, from which your project deliverables will be effortlessly extracted.



FACILITY MANAGEMENT

Document any information, exploiting the panorama images, the X-Whizz mode or the geotag function with pictures of details or annotations.

TANK INSPECTION

Quickly and safely generate data for tank analysis, documenting verticality, roundness, integrity and deformations.

FORESTRY

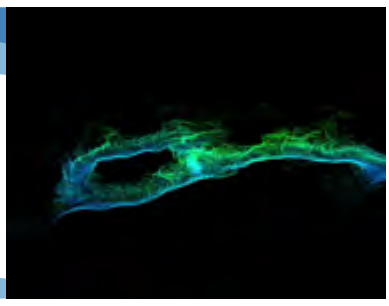
Document the state of forests to know the positions of trees, the size of trunks or to quantify the vegetation cover.

TUNNEL & CAVE

Even extreme environments underground can be detected, processing tunnel scans with a dedicated algorithm.







PROCESS YOUR DATA AS YOU WISH

Collect and process your data thanks to Stonex solutions. Thanks to the bundled software it is possible to acquire data easily and carry out basic post-processing operations.
For those who need to carry out complex operations it is possible to use Cube-3d

BUNDLED SOFTWARE

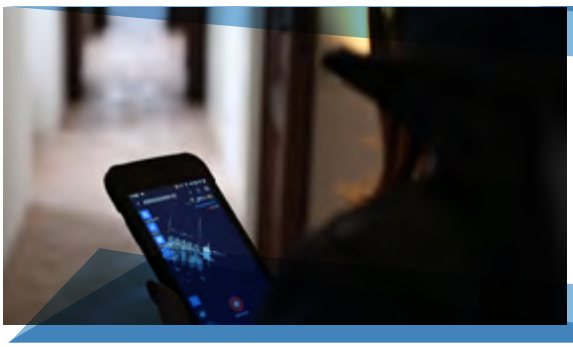
GOapp

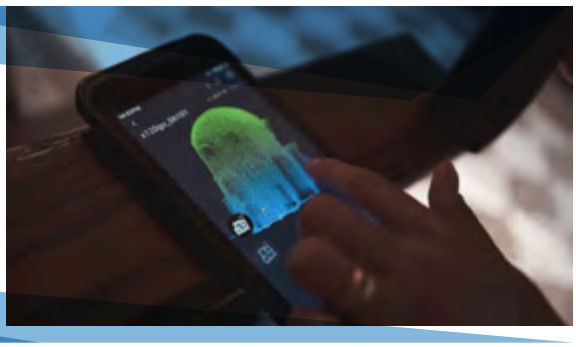
GOapp is dedicate mobile application for Stonex SLAM scanners, to manage projects, real time point cloud display, image preview, firmware upgrade and other operations. The APP runs on Android and iOS operating system.



GOpost

Windows post processing software which performs optimization processing, colouring of point clouds and creation of panoramic images. You can also import control points to georeference the point cloud.





3D SOFTWARE

Cube-3d

Cube-3d is a complete software for 3D data management, built by two modules for photogrammetry and for scanner data. The former processes images (or videos) to generate accurate digital maps and 3D models with extreme precision; the latter provides tools to align point clouds.



PointCab

Thanks to the collaboration between Stonex and PointCab, you can manage your point clouds with it. PointCab Origins is your Swiss army knife when it comes to the evaluation of point cloud data – working with all laser scanners and compatible with all CAD and BIM systems.



Aplitop

Thanks to the collaboration between Stonex and aplitop, you can try this powerful software with our Laser Scanners.

- Imports clouds from standard formats and represents them by attributes such as color, intensity, category, etc.
- Import images from E57 and LGSx files. Easily and intuitively measure and draw on the cloud or 360° image.
- Create profiles in plan and elevation.
- Easily manage geotags.

And much more.



ACCESSORIES

Expand the capabilities of our Slam Laser Scanners with dedicated accessories.

PLATFORM/EXTENSION

	X40GO	X70GO	X120GO	X200GO
BACKPACK	n/a	√	√	√
RTK MODULE	n/a	√	Integrated	Integrated
360° CAMERA	√	Insta360 X4/X5/ DJI Osmo360	Integrated Insta360 X4/X5/DJI Osmo360	Integrated Insta360 X4/X5/DJI Osmo360
VEHICLE MOUNT	n/a	n/a	√	√
UAV	n/a	n/a	DJI M300/350	DJI M300/350
RADIO MODEM	n/a	n/a	Stonex SR02	Stonex SR02

RTK MODULE

There are several reasons why the RTK module is worth using. First, it places your point cloud in a global coordinate system, but it can also be useful in large surveys to improve the composition of the final 3D model. Indeed, RTK module can help the system, adding GNSS info to LIDAR and IMU. If the GPS does not have a satellite connection, such as indoors, the system will rely on LIDAR and IMU to locate itself.



RECEIVER	
Satellite Signals Tracked	GPS L1, L2
	GLONASS L1, L2
	GALILEO E1, E5b
	BDS B1, B2
Fixed RTK (RMS)	Horizontal: 1 cm + 1 ppm
	Vertical: 1.5 cm + 1 ppm
Data Update Rate	20Hz
Time Accuracy	20ns
Speed Accuracy (RMS)	0.03 m/s
Modem	LTE FDD: B1/B3/B5/B8
	LTE TDD: B34/B38/B39/B40/B41
	GSM: 900/1800MHz

PHYSICAL SPECIFICATION	
Weight	1.8 Kg
Size	196 mm × 80 mm × 39 mm
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Waterproof/Dustproof	IP54

ANTENNA	
Size	27.5 mm × 56 mm
Weight	15.3 g
Optional	SA85 for backpack/vehicle mount

POWER SUPPLY	
Type-C USB	20V
Aviation socket	12V-20V

SLAM

TABLET HOLDER

You can use your tablet docket to the device to have one to have one hand free while surveying. The tablet mounted on the back of the scanner allows you to always have eyes-on scan real time preview.

PHYSICAL SPECIFICATIONS	
Min Width	1,75" (4,44 cm)
Max Width	4,5" (11,43 cm)



BACKPACK

A solution to mount the device on your back and to combine it with the geodetic antenna. Extended surveys will become a simple walk.



PHYSICAL SPECIFICATIONS	
Material	Nylon, aluminum
Size	250x 250x 1000mm
Weight	1,7kg (frame only)

CONFIGURATION
X70^{GO} - RTK module - SA85
X120^{GO} - SA85
X200^{GO} - SA85



UAV MOUNT

Complete the survey from any viewpoint mounting the X120^{GO} and X200^{GO} on DJI M350.

COMMUNICATION
Power and RTK supplied by DJI

VEHICLE MOUNT

Securely mount your X120^{GO} or X200^{GO} on a vehicle to collect data on urban environments. Choose between suction cups or magnets and drive up to 20 km/h.



PHYSICAL SPECIFICATIONS	
Frame material	Aluminum
Weight	6.3 kg
Size (docking excluded)	250mm×180mm×660mm
Docking mode	Suction cups or magnets
Suction cups load	Horizontal: 60 kg
	Vertical: 40 kg
Suction cups operating temperature	-20°C to +70°C

POWER	
Operating time	4h
Capacity	3 Ah
Voltage	20V-30V

CONFIGURATIONS
X120^{GO} - SA85
X200^{GO} - SA85

TELESCOPIC POLE

Hold the device on the monopod for a stationary survey in key areas with the X-Whizz mode. The quick-lock swivel system makes the pole quick and easy to extend to different heights, up to a maximum of 1,60 meters. Its handle ensures a firm, ergonomic grip during use: maximum efficiency and comfort are guaranteed.



SLAM

PANO CAMERA

Enhance your SLAM survey by adding important properties such as the 360° panoramic photography.



PANO CAMERA SPECIFICATIONS	DJ1 OSMO 360
Model	Insta360 X4/X5
Resolution[1]	16.6 MPx
Operating time	135/185 min
Weight	around 200 g

[1] After processing with GOpost

SHOULDERS HOOK

Distribute weight of the device over both shoulders, freeing your hands. Adjustable in both height and angle, it is easy to put on and take off.

PHYSICAL SPECIFICATIONS	
System Weight	3.2 kg
Size	300mm x 300mm x 640mm




3D SCANNING
3D SCANNING EVERYWHERE

SLAM
PRODUCT COMPARISON

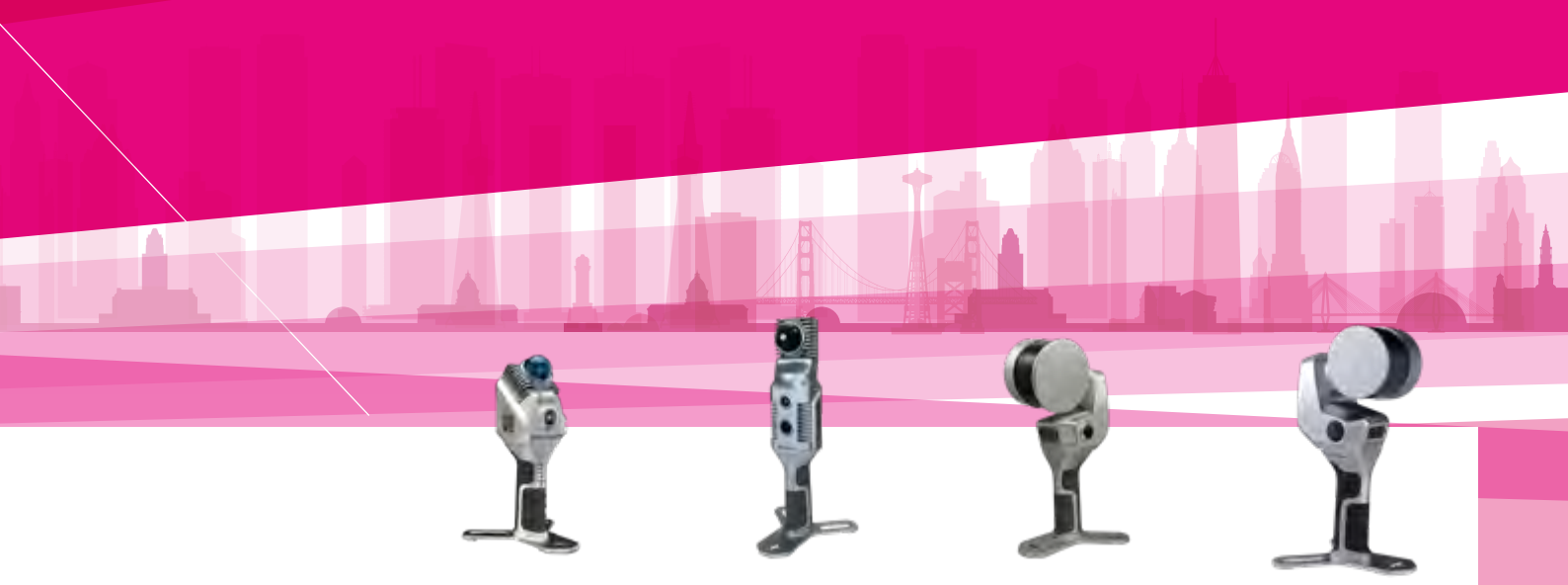


	X40[GO]	X70[GO]	X120[GO]	X200[GO]
LIDAR				
Sensor	Livox Mid-360	Livox Mid-360	Hesai XT16 | XT32	Hesai XT32M2X
Max Range	70 m @80% reflectivity	70 m @80% reflectivity	120 m	300 m
Min Range	0.1 m	0.1 m	0.5 m	0.5 m
Scanning Point Frequency	200.000 pts/s	200.000 pts/s	320.000 pts/s* 640.000 pts/s	640.000 pts/s**
Returns number	1	1	2	3
Field of view	360°H, -7~52°V	360° x 360°	360° x 290°	360° x 290°
Laser Class	Class 1 eye-safe per IEC/EN 60825-1:2014			
RGB CAMERA				
N° of pixels	12 Mpx	12 Mpx	24 Mpx (2 cameras, 12 MPx each)	24 Mpx 2 cameras, 12 MPx each)
FOV	143°x131°	143°x131°	360°x130°	360°x130°
Focal length	1.26 mm	1.26 mm	1.26 mm	1.26 mm
Resolution	2704x2288 px	4000x3000 px	8000x3000 px	8000x3000 px
Sensor size	1/2.3inch	1/2.3inch	1/2.3inch	1/2.3inch
Pixel size	1.55 µm	1.55 µm	1.55 µm	1.55 µm
SYSTEM				
Relative accuracy[1]	Up to 6mm			
Global accuracy[1]	Up to 2cm			
Control point support	Ground & wall			
Capture App	Android & iOS			
Storage	512 GB SSD	512 GB SSD	512 GB SSD	512 GB SSD
Operating mode	SLAM mode	SLAM & X-Whizz modes	SLAM & X-Whizz modes	SLAM & X-Whizz modes

* X120[GO] - 16:
320.000 pts/s (single return)
640.000 pts/s (dual return)

* X120[GO] - 32:
640.000 pts/s (single return)
1.280.000 pts/s (dual return)

** X200[GO]
640.000 pts/s (single return)
1.280.000 pts/s (dual return)
1.920.000 pts/s (triple return)



	X40[GO]	X70[GO]	X120[GO]	X200[GO]
ELECTRICAL SPECIFICATION				
Power consumption	18W	20W	26W	26W
System supply voltage	20V	20V	20V	20V
Operating time[2]	1.7 h (single battery)	1.5 h (single battery)	1.2 h (single battery)	1.2 h (single battery)
Battery input voltage	5-20V	5-20V	5-20V	5-20V
Battery output voltage	10.8V	10.8V	10.8V	10.8V
Battery capacity	3000mAh	3000mAh	3000mAh	3000mAh
PHYSICAL SPECIFICATION				
Weight	650 g (without battery) 1.166 kg (with battery)	925 g (without battery) 1.47 kg (with battery)	1.6 kg (without battery) 2.15 kg (with battery)	1.26 kg (without battery) 1.8 kg (with battery)
Size	283.8 mm x 173.8 mm x 170 mm	364.5 mm x 173.8 mm x 170 mm	404 mm x 170 mm x 188 mm	403.6 mm x 173.8 mm x 170 mm
Operating temperature	-20°C to +50°C (-4°F to 122°F)			
Waterproof/Dustproof	IP54			
GNSS RECEIVER				
Satellites Signal		(Optional) **GPS** L1/L2 **GLONASS** L1/L2 **Galileo** E1/E5b **BDS** B1I/B2I"	**GPS** L1 C/A/L2P(Y)/ L2C/ L5 **GLONASS** L1/L2 **Galileo** E1/E5a/E5b **BDS** B1I/B2I/B3 **QZSS** L1/L2/L5	**GPS** L1 C/A/L2P(Y)/ L2C/L5 **GLONASS** L1/L2 **Galileo** E1/E5a/E5b **BDS** B1I/B2I/B3I **QZSS** L1/L2/L5
RTK (RMS)		H 1cm+1ppm V 1.5cm+1ppm	H 0.8cm+1ppm V 1.5cm+1ppm	H 0.8cm+1ppm V 1.5cm+1ppm
Speed accuracy (RMS)	0.03m/s			

1. In controlled environment
2. SLAM only, no external platforms

NEW GENERATION PHOTOGRAMMETRY

XVS

The system uses a technology based on the integration of high-resolution images, inertial systems and a complex algorithm: capturing a scenario with XVS, 3D model will be generated through photogrammetric techniques. Walking and capturing the scene in motion, a real-time interface will guide you in the data collection, suggesting the speed of your movement and if necessary returning to an area to have enough image overlapping.

Thanks to Visual SLAM system (Simultaneous localization and mapping), your trajectory is displayed in real-time on a tablet. The Inertial Measurement Unit (IMU) sensor helps the algorithm to generate a continuous image block. The best result will be obtained automatically. Back in the office, the procedure to generate the 3D model is fully automatic, through a desktop PC. Data coming from XVS can be integrated with video from UAV drone or any camera for a complete reconstruction of the area.



ACCURATE

Smart algorithm makes it possible to choose the best images and increase the accuracy of the derived model. If the capture is very close to the element (around 1 m) and closing where you started-loop closure-the accuracy is 2-3 mm.

HD TEXTURES

Based on advanced high-resolution images, it allows reconstructing the texture of the scanned material with great clarity and realism.

SCALED AND LEVELLED RESULTS

Through the automatic detection of targets and the use of inertial systems, scaled and levelled results can be obtained.

EASY TO USE

Because of its practicality and ease of use, it can be used by multiple people within a company or institution, without the need for prior knowledge of 3D scanners. The field application will guide in through the data collection.

VERSATILE

A variety of urban scenarios can be documented using XVS scanner, as infrastructures, accident reconstructions, gas/water connection works, building faces and others. The geometric accuracy and colour realism in the results, make it a companion also for archaeological, architectural and geological work.



ACCESSORIES

LIGHT



POLE



XVS

VISUAL SLAM TECHNOLOGY

Visual simultaneous localization and mapping technology determines the position and orientation of a camera in relation to its surroundings, while mapping the environment around it. Through subsequent images, points are tracked to triangulate their 3D position; this information is simultaneously used to approximate the camera pose. The advantage, compared to standard photogrammetry, is that at the end of the survey you leave the site with the certainty that the frames have the correct overlap for building the point cloud.

BUNDLED SOFTWARE

XVSAPP

The provided software has a simple interface and helps the user by indicating how to behave in critical steps and alarming in case the object is not captured correctly. Camera parameters are fully customizable, adapting them to the surrounding environment. Suggested tablet is Microsoft® Surface PRO, not included in the bundle.

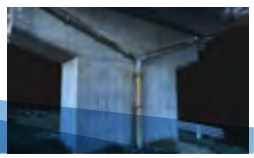
Data collected in the field can be sent to a server for advanced data processing. This service will return point cloud or mesh formats, which you can use in Cube-3d or any third-party software.



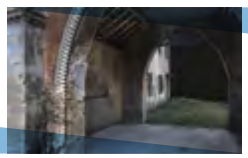
APPLICATION



URBANISM



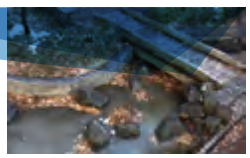
INFRASTRUCTURE



RESTORATION



ARCHAELOLOGY



GEOLOGY

ACCURATE & RELIABLE

XFLY

XFLY series integrates high performance Inertial Navigation System with camera and LiDAR for point cloud generation. Different customer's need can be met by the choice of Hesai LiDAR XFLY120, XFLY300 or other sensors.

The processing platform contains a Wi-Fi interface, an embedded cellular modem for RTCM corrections, data logging software and a gigabit Ethernet network. Equipped with a high-performance INS, it delivers clean point clouds even at high AGL. As a small, lightweight and low-power system, it allows the user to fly longer, adapting to the needs of any project. The post-processing software provides fully automatic point cloud generation.



200m AGL

Fly up to 200 meter above ground level.

ACCURACY

Thanks to high performances GPS-Aided INS, 3-5 cm point cloud accuracy can be achieved.

CAMERA

24 MP camera adds RGB information to the data. Camera comes to the customer already calibrated and with these boresighting values already saved onto the device.

FLY & DRIVE

Different mounts are offered to support the assembly onto well-known UAVs and other platforms, like cars. Among the compatible UAVs: DJI - M300 - M350, Inspired Flight IF1200A / IF800 Hexacopter, Freefly Alta X, Freefly Astro, WISPR Ranger Pro 1100, Sony Airpeak S1.

PPK/RTK Dual/Single GNSS

Depending on customer's application, choose whether you want single or dual GNSS antenna. For who wants to avoid post processing, Real Time Kinematic solution is also available.





XFLY

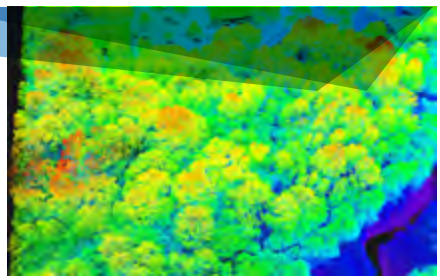
FLYPOST

The software observes and corrects misalignments between the INS and LiDAR, and georeferences the data into a geographic coordinate system. The post-processed INS trajectory, LiDAR scan files and camera images are converted to point clouds in LAS format for further processing.

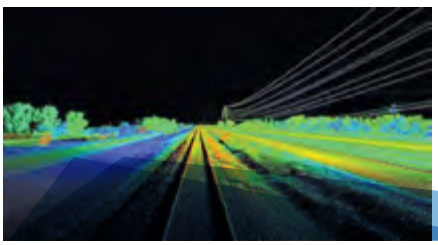
CONSTRUCTION SITE



FORESTRY







RAILWAY



POWER LINES

Cube-3d is a complete software for 3D data management, built by two modules for photogrammetry and for scanner data. The former processes images (or videos) to generate accurate digital maps and 3D models with extreme precision; the latter provides tools to align point clouds. It is compatible with cube-a surveys and with any third-party 3D model.



It is possible to draw on point clouds or meshes and merge data imported from traditional survey tools, all in a single software. The data can be then processed and enhanced thanks to the various CAD tools. Among the many features available, most appreciated are the automatic classification, orthophoto, cross-sections and profile lines, volume calculation, and more. Licenses configuration is very flexible, from perpetual to temporary subscription, it adapts to the needs of many professionals.

PHOTOGRAMMETRY MODULE

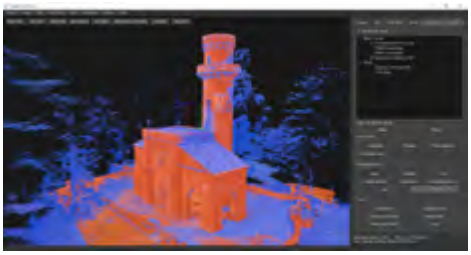


The program can process, in a single project, images captured by any handy camera, UAV drone, or multiple-camera and create extremely accurate and detailed high-definition 3D models. It can generate a fully geo-referenced, spatially orientated, and complete overview of your site configuration.



Cube-3d automatically detects both GCPs and detail points, allowing the operator to check the position of the detected targets, in the first step of the orientation. With Stonex targets, the time needed will be even shorter, centering is immediate. Alternatively, coded targets are also supported for fully automatic orientation. Even working with RTK drones, it will be easy to achieve centimeter accuracy without GCP.

SCANNER MODULE



Import clouds from Lidar, Laser Scanners, and without limitation from any tool capable of generating them. Full support for Stonex Scanners and a wide range of import formats. Register point clouds in cube-3d and take advantage of all the excellent tools it provides.

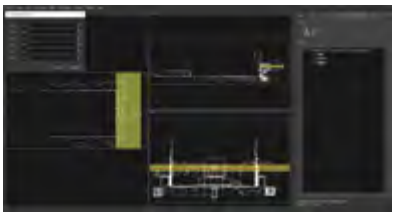
MAIN FUNCTIONALITIES

CLASSIFICATION

Benefits from an industry-leading classification engine with best-in-class point cloud customization tools that give users fast, easy-to-use, and simple data classification.

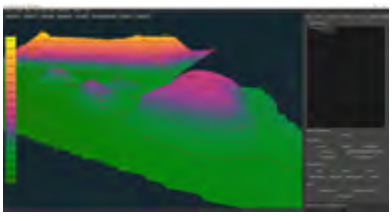
ORTHOPHOTO AND X-RAY

It allows to calculate high-resolution, traditional and true, digital orthophotos with cm-grade precision in perfect geo-referenced details. The X-ray feature helps to see through the rooftops, so drawing building walls and similar features on a survey map will be much easier. From 2D X-ray views, generate layouts customising their dimension and position.



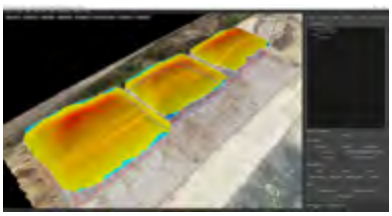
CROSS SECTIONS, PROFILES AND CONTOUR LINES

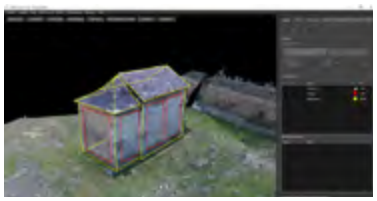
From point cloud data, it will draw a definition line and calculate single vertical cross-sections or multiple transverse profiles with user-defined intervals. Or it can instantly create topographic maps, and freely explore terrain elevation data in 2D or 3D, thanks to the automated contour lines calculation.



VOLUMES

Calculate volumes, comparing different models for cut&fill. Dedicated tools to move points, increase/decrease heights, flatten, etc... permit the prediction of future surfaces/results of the area.





CAD ENGINE

Integrated CAD functions give you the power to work on your project with a complete layer system, snapping tools, drawing options and measurements. No need of any further third-party CAD software.



MEASURE ON PANO IMAGE

Import e57 point cloud with panoramic images and switch among them to measure. The use of the panoramic camera will give you a clearer idea of the environment and you will be able to take measurements more easily.



VECTORIALIZATION

In few clicks, extract lines from plans of your point cloud. Edit the result of the vectorizer, snapping lines, if needed. CAD results will be exported effortlessly.

CUBE - 3D
MODULE COMPARISON

	PHOTO module	SCANNER module
3D MODEL GENERATION FROM IMAGE/VIDEO	√	Upgrade to PRO
MESH GENERATION	√	√
GCP ORIENTATION	√	√
MANUAL REGISTRATION	Upgrade to PRO	√
2D VIEWS & LAYOUTS GENERATION	Upgrade to PRO	√
VECTORIZER ON LAYOUTS	Upgrade to PRO	√
CAD TOOLS ON MESH/POINT CLOUD	√	√
CAD TOOLS ON ORIENTED IMAGES	√	Upgrade to PRO
MEASURE ON PANO IMAGES	Upgrade to PRO	√
CLASSIFICATION	√	√
VOLUME	√	√
ORTHOPHOTO	√	√
CROSS SECTION & PROFILE	√	√
CONTOUR LINE	√	√
FLYTHROUGH VIDEO RECORDER	√	√




3D SCANNING
3D SCANNING EVERYWHERE

MACHINE CONTROL SOLUTIONS
FOR HIGH PRECISION WORKS



Our world demands technologies that are able to monitor and assure the correct workflow to get the job done quickly and correctly.

The Stonex team has a deep knowledge in developing solutions, in order to improve the jobsite productivity keeping in first place the Operator's safety.

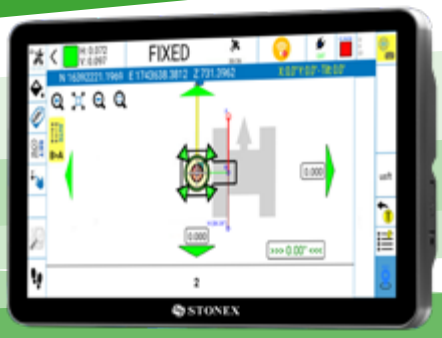


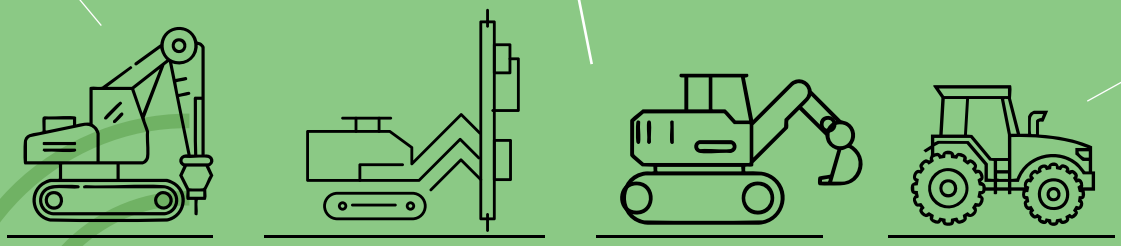
EARTHMOVING





PILING





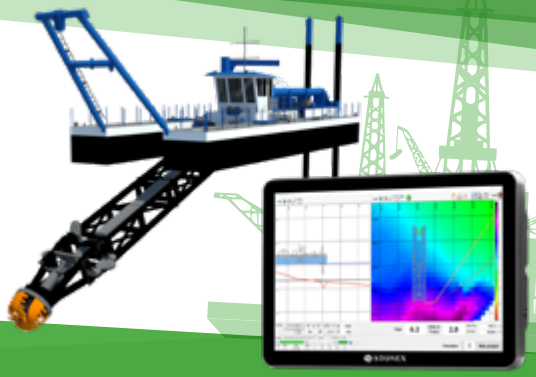
AGRICULTURE



DRILLING
AND MINING



MARINE



SUITE STX-MC

MACHINE CONTROL

EARTHMOVING



Stonex machine control solutions can be installed in most earthmoving machines quickly and easily.

The simple design of the solution allows you to be up and running in no time. Thanks to the Android software developed by Stonex, all the components can easily communicate with each other. The software allows you to manage all phases of excavation and machine movement. The system is scalable as needed. It is possible to install a 1D/2D solution and then easily transform it into 3D.



PROFESSIONAL SOLUTION

Efficient workflow with ON and OFF Machine solutions for complete data management.

ACCURATE POSITIONING

High precision positioning thanks to GNSS Antennas and high quality sensors.

EASY TO USE

Our system is plug & play. Quick to install and easy to use thanks to an intuitive user interface.

HIGH PRECISION SENSORS

The system is equipped with precision sensors that provide accurate data. Our sensors also have a high frequency rate.

ANDROID SOFTWARE

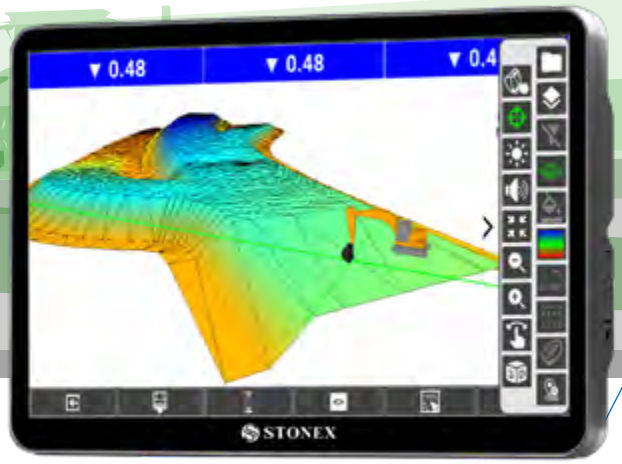
Software developped by Stonex for Android system, optimized for machine control operations.

ROI

Adopting Stonex solutions means reducing production costs. Less operators with high productivity.

CLOUD WEB PORTAL

The STX-Cloud allows users to upload and share files (projects, calibration and configuration, localization) between your Apollo tablets, Cube-a devices and office devices



SOFTWARE

SUITE STX-MC

STX-MC software is fully developed and supported by our experienced Stonex development team in Milan, Italy. The software represents the heart of all our machine control systems and it's created with a strong focus on the real needs of machine control users: simplicity, reliability, and flexibility.
We use one software for all types of machines and applications. You simply activate the functions you need by choosing the right license level: 1D, 2D, 3D.

KEY FEATURES:

One software for all machine types: excavators, dozers, graders, wheel loaders

User-friendly interface for quick calibration and fast operator learning

Up to four machine profiles can be saved on one display - no need to recalibrate when swapping between machines.

STX-MC software works seamlessly with the STX-Cloud platform, remote access for quick support and real-time project updates.

STX-MC can also share files with Cube-a software.

SOFTWARE

STX-CLOUD



STX-CLOUD is a web portal designed to facilitate the exchange of job data between the office and the job site.

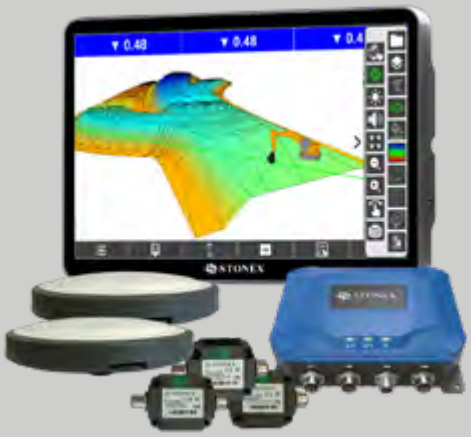
The key communication points include:
THE OFFICE (ACCESSIBLE VIA ANY WEB BROWSER)
THE JOB SITE (VIA ANY REGISTERED MC TABLET DEVICE)
THE SURVEYOR THROUGH CUBE-A FIELD SOFTWARE (SEPARATE LICENSE)

Job site data uploaded to the web portal can be assigned to one or more tablet devices-typically those installed in earth-moving machines-either individually or in bulk.
A simple and intuitive user interface allows operators to preview DXF files before uploading them to the server.
From the operator's perspective, downloading and uploading data through the cloud service is straightforward and user-friendly.
Additionally, the cloud service provides real-time updates on the latest machine locations.

MACHINE CONTROL

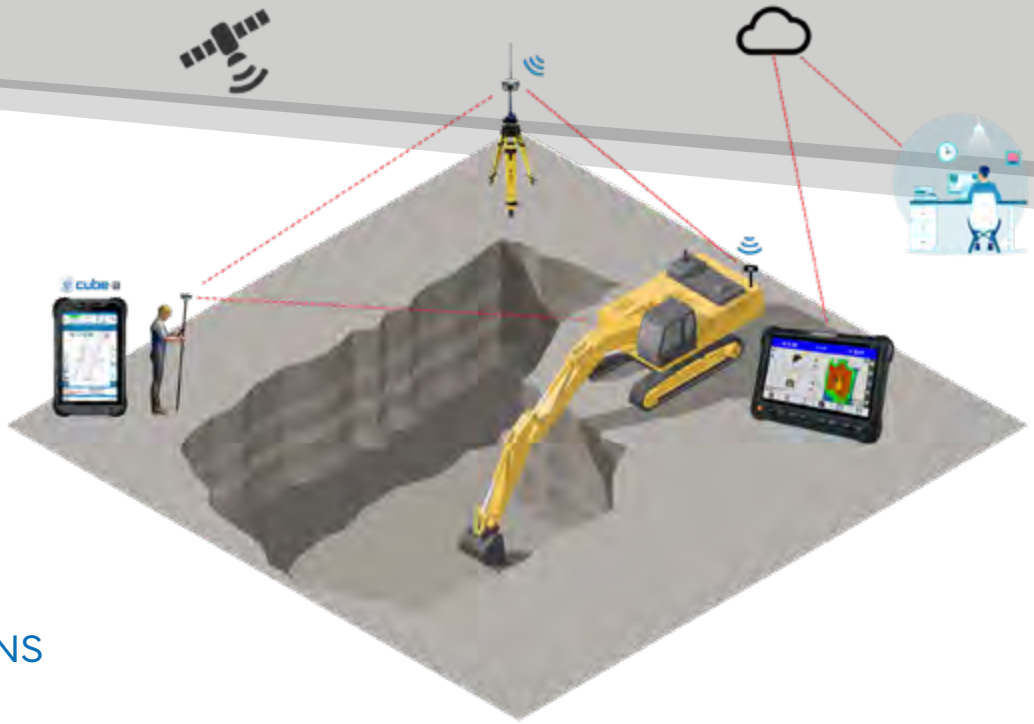
EXCAVATION

STX-DIG



Stonex machine control solutions can be installed in most excavators machines quickly and easily. The simple design of the solution allows you to be up and running in no time.

Thanks to the Android software developed by Stonex, all the components can easily communicate with each other. The software allows you to manage all phases of excavation and machine movement. The system is scalable as needed. It is possible to install a 1D solution and then easily transform it into 2D or 3D.



CONFIGURATIONS

1D

The 1D system is the easiest to install and use. It allows you to manage the digging and vertical leveling phases quickly and precisely. It is a perfect starting point for the user approaching the world of machine control for the first time. Suitable for excavators and mini excavators. You can always check the bucket position from the screen in real time. Complex tasks such as underwater digging and blind digging are simplified because you can always keep an eye on the bucket on the screen. You can work with different height references such as an existing surface or a rotating laser.

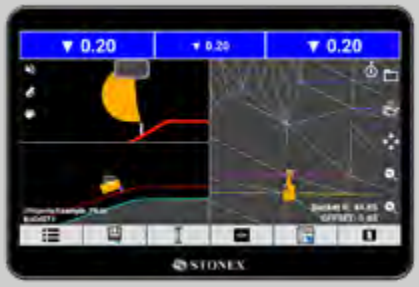
2D

The 2D system allows operations to be managed even on the horizontal plane, thanks to the use of a GNSS antenna installed on the machine (heading). It is the simplest solution if you have to work with double slopes. You can create slopes and excavations in any orientation. Just enter the depth of the excavation, the slopes and you can start working. The system uses GNSS antennas like a compass. The system can work with the Touch and Go function or with the laser to transport the working height of the construction site.



3D PRO

3D Pro allows you to manage complex projects thanks to the ability to import geo-referenced projects. The perfect integration of the data collected with field GNSS receivers and the excavation system makes the process very simple and fast. The management of large and complex excavations can be managed with 3D Pro and Cube-a.



	1D	2D	3D pro
Depth	✓	✓	✓
Slope	Single	Dual	Dual
Pipelaying	✓	✓	✓
Grading work	✓	✓	✓
Heigh Allarm	✓	✓	✓
Laser reference	Optional	Optional	Not need
Tilt bucket	✗	Optional	Optional
Pitch&Roll	✗	✓	✓
Compass GPS	✗	✓	✓
GPS positioning RTK	✗	✗	✓
Creation of projects in the field	✗	✗	✓
Project import	✗	✗	✓



GNSS RECEIVERS FOR MC

SMC-ONE

SMC-ONE is a dual antenna GNSS receiver specifically designed for machine control applications. It is equipped with all the functionality you need for a machine control application in one small device. Stream all your sensor and GNSS data over a single Serial, CAN BUS or ethernet connection to your controller.



MULTI CONSTELLATION
All GNSS signals (GPS, GLONASS, BEIDOU, GALILEO, and QZSS) are included at no additional cost.

PITCH AND ROLL
The sensors track the movements of the machine's body, both pitch and roll.

HEADING
Dual antenna for heading.



SMC-TWO

SMC-TWO is a Dual Antenna GNSS receiver specifically designed for OEM Market. It is equipped with all the functionality you need for a machine positioning application in one small device. Stream all your sensor and GNSS data over a single Serial, CAN BUS or ethernet connection to your controller. SMC-TWO delivers accurate, seamless NMEA and CAN data throughout the system.

MULTI CONSTELLATION
All GNSS signals (GPS, GLONASS, BEIDOU, GALILEO, and QZSS) are included at no additional cost.

GALILEO HAS
SMC-TWO supports Galileo HAS service. Get improved user positioning performance in real-time.

PITCH AND ROLL
The sensors track the movements of the machine's body for slope information.

HEADING
Dual antenna for heading.

SUITE STX-MC





S850+
BLACK EDITION



Equipped with an advanced 1408-channel GNSS board and capable of supporting various satellite constellations, including GPS, GLONASS, BEIDOU, GALILEO and QZSS. The Stonex S850+ GNSS receiver is the ideal solution for any surveying work in the field. The receiver's advanced design gives the S850+ excellent signal tracking and interference resistance capabilities. The advantages of portability and speed of operation make the S850+ GNSS receiver particularly suitable for field work in areas with complex terrain. Stonex S850+ also integrates the IMU system that enables inclined measurement (TILT) up to 60°: quick initialization, fast and accurate surveying.

S980+
BLACK EDITION



The color touch display and the ability to connect an external antenna make the S980+ an extremely effective receiver, capable of detecting GPS, GLONASS, BEIDOU, GALILEO QZSS and IRNSS constellations, making it suitable for any job. With a 4G GSM modem, a fast Internet connection is guaranteed, while Bluetooth and Wi-Fi modules always enable reliable data flow to the controller. These features, combined with the built-in 2-5W radio, make the S980+ the perfect receiver as a base station. The S980+ also features optional IMU technology with quick initialization and tilt up to 60° and dual antenna support for heading. S980+ can also be mounted on excavator and used as GNSS in the STX-DIG solution.



MACHINE CONTROL

DRILLING & MINING

Stonex has developed simple solutions for the correct positioning of machines on the construction site. Thanks to our systems it is possible to follow the project coordinates without errors.

In addition to the components installed directly on the machines, our software also handles the traditional staking part if needed. To facilitate the exchange of information between operators, the solutions consist of a part dedicated to the office and a part dedicated to field work. Office and field can communicate thanks to the use of a Cloud platform where they can easily share data, projects and information.



PROJECT AND DESIGN

The Project can be generated, importing the local coordinates from different formats (DXF, TXT). A TARGET POINT file will be produced for the GPS navigation purpose. The Project coordinates include the depth and the tilt information.

MONITORING ACTIVITY

Thanks to a remote connection it is possible to monitor the progress of the work and update the projects in real-time.

VISUALIZATION AND STORAGE

Thanks to our solutions it is possible to assess and store the position of the drilling point.

ANDROID SOFTWARE

Software solutions that work with AndroidTM system.

ROI

Adopting Stonex solutions means reducing production costs. Less operators with high productivity.

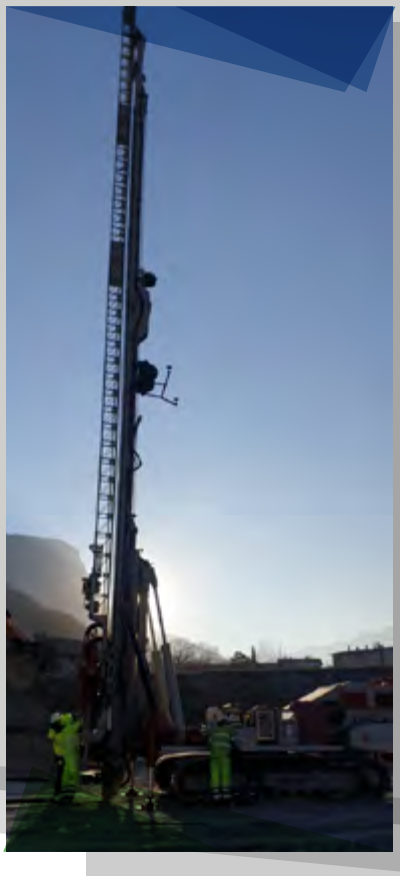
SUITE STX-MC

SATELLITE TECHNOLOGY FOR HIGH PRECISION MINING OPERATIONS

Stonex machine control division has designed three solutions for the mining world:

A GPS guidance system for jet grouting capable to determine the correct planimetric position of the columns, the verticality of the drilling tower and the deviations from the designed coordinates.

A system for guiding and positioning digwheel machines for the construction of quarries or tunnels.









MACHINE CONTROL

PILING



Stonex positioning technology provides excellent performance in piling operations, supplying a solid solution to operators.

The main solution (GPS + tablet + software) is able to process large surveys and create projects quickly; the quality of the work is ensured by the correct interaction between the sensors and the software. Our solutions offer a different degree of automation for the pile driving process, to meet the customer's needs and reducing working time.

PROJECT AND DESIGN

The Project can be generated, importing the local coordinates from different form ats (DXF, TXT). A TARGET POINT file will be produced for the GPS navigation purpose.

SURVEY STAKE-OUT

Quick and smart stakeout GPS solution made for any kind of operator. A clear guidance layout aids the operator to find the post position with centimeters accuracy.

MACHINE GUIDANCE

Our solutions fit on any kind of piling machines and drive the operator on the target point (post coordinates) in manual, semi-automatic and automatic mode.

AUTO LEVELLING

A slope sensor with an hydraulic interface can be installed on any machine in order to assure always the best levelling accuracy of the mast along two axis.

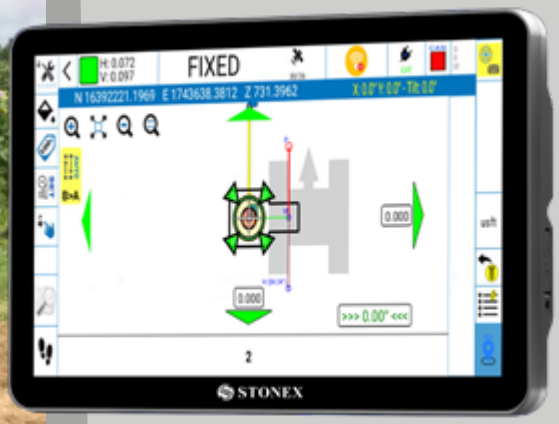
ROI

Adopting Stonex solutions means reducing production costs. Less operators with high productivity.

ANDROID SOFTWARE

Software solutions that work with Android system.





GPS SATELLITE TECHNOLOGY FOR PILE DRIVERS

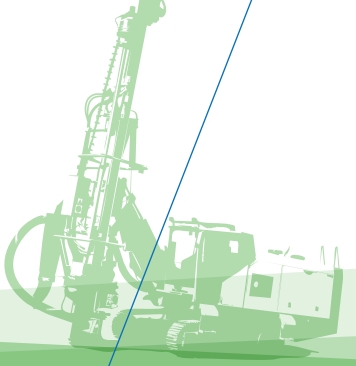
Stonex machine control division has designed different solutions for pile drivers machines.

SOLAR FIELDS - ROADS - AGRICULTURE

Our solutions can be used to create photovoltaic fields, to set up the rows of a vineyard or to facilitate the construction of guard rails. Thanks to GNSS technology and precision sensors, every operation is easy and fast. We also provide a solution for testing the strength of the posts with a push and pull validation test.



AGRICULTURE PRECISION FARMING



Stonex offers numerous solutions to meet the needs of the agricultural world. Our solutions for smart farming provide the ability to easily plan, schedule and manage jobs. Our receivers reach high levels of precision, becoming largely usable for jobs related to precision agriculture.

The solutions consist of hardware and software; moreover, they adapt to different types of machines becoming easily adaptable to the client's needs. The goal is to improve the quality of work and reduce the stress of workers, supporting them in all those activities that require great precision.



PROJECT AND DESIGN ON THE FIELD

Design the plant layout directly in the field thanks to the powerful software.

MACHINE GUIDANCE

Easy driving of the tractor on designated routes and points by following the indications on the display.

SURVEY STAKE-OUT

Adapt the plant layout to the elevation profile of the field. Smart stake-out with auto-lock.

HIGH ACCURACY

High-precision positioning of machines, poles and plant shoots using GNSS technology.

ANDROID SOFTWARE

Software solutions that work with Android system.

ROI

Adopting Stonex solutions means reducing production costs. Less operators with high productivity.





GPS TECHNOLOGY FOR SMART FARMING

Stonex Agriculture division has designed several solutions for smart farming:

GUIDANCE SOLUTION

Stonex STX-AG200 and STX-AG300 solutions allow you to use the precision positioning provided by GNSS antennas to efficiently guide agricultural machinery in the field. You can set straight, curved, concentric lines and much more.

PILING SOLUTION FOR FIELDS AND VINEYARD

A solution for the design and driving of poles in a field /vineyard that allows to reduce time and work stress, as well as to increase the accuracy.

PLANTING SOLUTION

Our solution allows you to plant the cuttings in a precise point thanks to precision positioning, following a project defined in the management software.







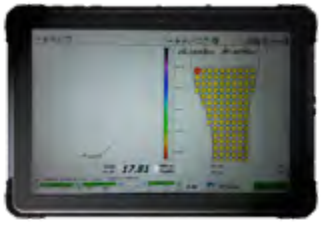
NAVIGATION & DREDGING

Stonex offers flexible, high-performance positioning systems to meet the unique needs of marine world on both simple and complex projects.

Our solutions include both hardware and software, and can be easily integrated into third-party systems. Improve productivity and efficiency in underwater applications thanks to our systems. Our solutions are suitable for dredging operations, canal/port development, reclamation, breakwaters, navigation systems and hydrographic surveys.









HARBOUR CONSTRUCTION

- Full control of the project fitting the stones on the right project position (Planimetricand cross section)
- Multilayer surfaces with colorized hight.
- Progress of work and report production.

REAL TIME VISUALIZATION

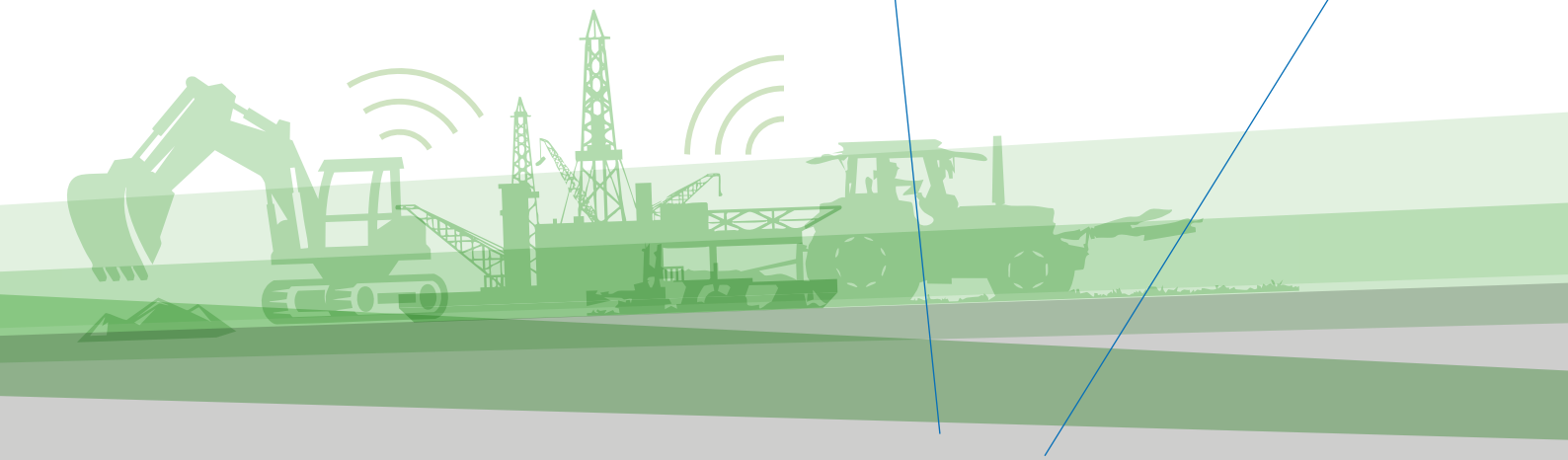
You can keep an eye on each stage of operations in real time and correct/modify what you need based on the job you are doing.

ACCURATE PROJECTS

Thanks to our software you can create the project you need quickly and easily.

HIGHLY CONFIGURABLE

Highly configurable to suit endless vessels and dredges. Wide room for different applications including navigation, excavation, dredging, piling and mapping.



PRECISION POSITIONING FOR MARINE OPERATIONS

NAVIGATION

Stonex has developed a precision navigation system that uses RTK GNSS receivers, GNSS antennas and dedicated software to facilitate complex operations such as navigation in difficult zones.



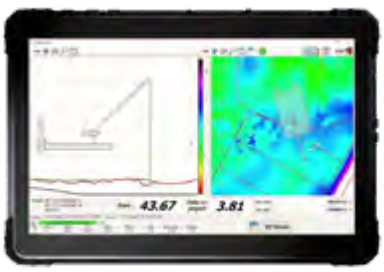






DREDGING

For all operations regarding dredging and dredger control, Stonex has developed a specific system that facilitates operations. The system adapts to various types of dredgers even of different sizes.



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STONEX

DISCOVER MORE

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