Survey GNSS

Powerful solutions for every work

STONEX offers a wide range of GNSS receivers to meet your needs. STONEX receivers combine the most advanced technology with a practical and intuitive design to simplify daily work. Designed for the needs of professionals, the STONEX GNSS product range includes various options, allowing users to choose the best solution for everyone’s needs.

Equipped with an advanced GNSS card and capable of supporting multi-constellations, including GPS, GLONASS, BEIDOU and GALILEO, the Stonex GNSS receivers S800 series are the ideal solution for any field survey. The S800 series receivers have a web-ui interface for simple management, a 6800 mAh battery and an internal UHF radio modem. They are also equipped with wi-fi and bluetooth.

With the IP67 certification, the Stonex S800 series will guarantee operations in various types of environments even the most difficult. S800A is equipped with the aRTK function and the Atlas® positioning correction service.

The S900 series is the result of the continuous evolution of Stonex GNSS receivers. All receivers in this series are equipped with a new high-precision multi-constellation antenna, a powerful UHF transmitter and a GSM 4G modem. The S900 series receivers support all the present constellations such as GPS, GLONASS, BEIDOU, GALILEO and QZSS. On the S900 series there is an electronic bubble that checks if the pole is vertical and the point will be recorded automatically when the pole is in the right position. The double slot for two smart batteries allows you to work up to 12 consecutive hours. S900A is equipped with the aRTK function and the Atlas® positioning correction service.

The S10 series is equipped with intelligent and open GNSS receivers, in which the user has the possibility to instal customized applications directly on the receiver. The sophisticated design of the internal structure ensures a compact housing: GNSS antenna, GPS card, power supply, RX/1X radio, intelligent battery, 3.5G module, BT module and Wi-Fi module are all located in a well organized space, optimizing the performance and energy consumption. Points can be measured with inclination up to 30°. The inclination compensator installed inside can automatically correct the coordinates of the points collected based on the angle of inclination and the direction of inclination. S10A is equipped with the aRTK function and the Atlas® positioning correction service.
Total Stations

**High quality and technology**

Stonex Total Stations are simple and durable, designed and built to meet all the needs of customers, allowing everyone to work easily. Rapid, intuitive, reliable and precise, STONEX Total Stations are precision instruments designed to support professionals in all types of topographic work, guaranteeing high performance for surveying and engineering.

Stonex R1 Plus and R15 Total Stations: precise measurements of distances and angles, concentrated in 5 kg of pure technology. The perfect tools whenever the topographic work requires a light and fast machine; they operate throughout the day thanks to 26 hours of continuous operation. No limitation for distance measurements, up to 5,000 m with a single prism, 600 m reflectorless (KGC 90%) and 2” as angular precision, always guarantee a reliable calculation of the points. R15 is equipped with Bluetooth connection for data transfer.

High angular accuracy and long range measurements for Stonex R25/R25LR and R35/R35LR Total Stations. Long range high precision measurements: 600/1000 m in reflectorless mode and up to 5000 m with a single prism, with millimeter precision. They have a friction mechanism for continuous horizontal and vertical rotation; no more knobs or blocks with limited movements but a more comfortable use of the station. The trigger button located on the same side of the horizontal screw allows you to start the measurement with ease. R25/R25LR is supplied with an onboard software, but through the Bluetooth connection it can be connected to an external controller where field software can be installed. R35/R35LR instead has on board the Windows CE 7.0 system and is completely customizable.

**R80**

*Motorized. Easy and accurate Monitoring*

R80 combines the power of a Total Station and the features of remote control. Monitoring of large and small structural works has never been so simple and accurate. R80 adopts the technology of automatic recognition and positioning of prisms and has a high angular precision of 1”. R80 also has a distance measurement accuracy of 1 mm + 1 ppm and is able to measure up to 1,000 m in reflectorless mode. This advanced total station has Windows CE 7.0 operating system on board and each user can choose the software that best suits their needs.
GIS, GNSS Receivers & Controllers

Solutions for an accurate data collection

GIS solutions require precision positioning and software applications capable of managing the survey in the field in a simple and quick way. STONEX GNSS receivers and controllers allow high productivity for all surveys and precision data collection to manage and update GIS databases. STONEX offers a wide range of applications for the GIS sector.

GNSS Handheld Receivers

Windows

S4HII and S7G handheld receivers are able to combine the modern positioning technology and the versatility of a powerful handheld. Equipped with Windows Mobile OS they are ideal for surveying geographic data with DBs and photographs for GIS applications. The dual frequency S7G receiver has topographic precision. The S4HII single frequency receiver has a metric precision. Resistant to water, shock and dust (class IP67) STONEX GNSS handhelds are ideal tools for data collection even in the most difficult environments. The S4HII and S7G receivers use STONEX GeoGis application.

Controller Rugged

UT20 is reliable and resistant to water, shock and dust (class IP67). UT20 is equipped with a large 7” display and Windows 10 operating system. There are Wi-Fi, Bluetooth, NFC (optional), USB port, slot for micro SDXC cards, GSM positioning system and GPS.

Rugged Controller

Android

UT10 and UT30 are reliable in terms of construction quality and performance. With their bright 6” and 8” displays they are the perfect assistants for field work. Resistant to water, shock and dust (class IP67), they can be used even in the most difficult environments. UT10 and UT30 offer different connectivity options including Wi-Fi, Bluetooth, NFC, USB port, slot for micro SDXC cards, GSM positioning system and GPS.

GIS Software

GeoGis can be used for GIS / Topographic survey and to collect graphic information with databases and photographs. Developed in Italy, from STONEX’s R&D department for Windows Mobile and Windows 10 OS, GeoGis allows to manage quickly and intuitively the GIS survey:
- Work anywhere by choosing from various reference systems, including the cadastral system and IGM gratings.
- Browse using raster, vector or real-time maps with Google Maps™.
- Intuitive interface to memorize points, paths, surfaces and all the elements that make up the survey.
- Build and manage databases with photographs using the built-in handheld camera.
- Research the detected elements with precision (stake-out), even in the most difficult environmental conditions.
- Store jobs in GeoGis and / or SHAPE™, DXF, ASCII, Pregeo proprietary format.
Cube Suite

Field and Office Software

Cube Suite is the set of software solutions designed and developed by STONEX for the RTK and GIS survey, data download to personal computer, processing and display of results. Work in the field with RTK, GIS and Total Station GNSS detection software. Continue to work in the office with software for data transfer, graphical display and analytical data processing.

Field Software

Stonex Cube-a is the survey and mapping software designed and developed for the Android platform. Thanks to the flexibility of the Android environment, we were able to create a simple and intuitive user interface that makes users ready for any job, saving time and increasing productivity. Full support for touch gestures and the ability to install it on smartphones and tablets are the keys to Cube-a’s success.

Office Software

Cube-link is a lightweight and free version of the Cube-manager. The program performs many of the fundamental functions for topographic professionals. Among the functions, it is possible to manage TS surveys and GNSS surveys, with the possibility of modifying surveys by adding graphic elements. It supports numerous data formats during import and export, is constantly updated and users can take advantage of technical support.

Cube-manager has been developed to work on desktop computers with Microsoft Windows operating system and implements the tools to download, manage and process the data acquired in the field.

Using this software, it is possible to integrate mixed GNSS RTK and Total Station data, process raw GNSS data in different ways, import and export data to and from the most popular formats.

Cube Manager is composed of 3 main modules (P, T, M), each specialized in a series of functions. Among the functions shared by all the modules, there are plano-altimetric elaborations, generation of 3D models and calculation of the contour lines.
Laser Scanner
3D scanning everywhere
STONEX laser scanners are the best solution for any application, balancing economic efficiency and highly accurate results. The sealed external housing of all scanners allows you to operate in dusty and humid environments, where others fail.

X300
Simple, fast and accurate
STONEX X300 is a 3D Laser Scanner designed to provide accurate data every day, on any project.
Ease of use, reliability, flexibility and price make the X300 a highly competitive product. X300 can be connected to a smartphone or a tablet to start working immediately and easily. It is equipped with a range of accessories that make it flexible and suitable for different jobs.

Handheld 3D Scanner
STONEX F6 and F6SR are 3D handheld scanners designed to perform detailed scans. With Stonex F6 it is possible to scan medium-sized objects such as a statue or a room. F6 Short Range (SR) is instead designed specifically for the fast and accurate scanning of small objects with high details. Based on a patented innovative algorithm F6 and F6SR provide excellent data quality that makes them ideal devices for scanning complex scenes in seconds.

STONEX RECONSTRUCTOR
Easy and powerful 3D Software
STONEX RECONSTRUCTOR will guide you through a complete and clear workflow with expandable modules suited to your needs.

Open File Manager
If you are using CAD, crime scene, car crash analysis or other 3rd party software, you can now load the point cloud data collected with X300 directly into your workflow.
Special Projects

GPS solutions for precision work

The construction world requires technologies capable of monitoring and ensuring the correct workflow. STONEX Special Project team has a deep knowledge in the development of tailor-made solutions, in order to improve the productivity of the construction site while maintaining the safety of the operators in the first place. The fields of application in which the driving solutions are developed are: marine driving systems, precision agriculture, mines and foundations, solar energy systems.

STX-SUITE

Construction & Machine Control

STX-SUITE is a handy and prompt system for the design of ground photovoltaic plants and the on field positioning of the pile driver machines. STX-SUITE allows the planning of the best piling pattern directly on the field (survey with GPS + tablet + integrated software), as well as the loading of existing CAD projects (.dwg, .dxf).

Centimeter accuracy positioning is provided by two Stonex GPS receivers (up to 20Hz), installed on a metal frame integrated in the pile driver machine structure.

STX-DRILL

Construction & Machine Control

STX-DRILL is 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. STX-DRILL guides the operator straight to the designed coordinates thanks to the easy and intuitive user interface. It is only required to drive the machine and match the head and tail edges of the pole against the crosshairs displayed on the screen. Once the placement is finished, the system provides the exact excavation depth to be reached.

STX-PLANT

Precision Farming & Agriculture

STX-PLANT is a GPS driving system for planting machines of any kind. Thanks to a dedicated software and a machine remote control, it allows to deliver centimeter accuracy when putting the plant (vine shoot, olive, hazel) in the right place at a given distance along the row. The STX-PLANT Software allows to survey and design the project layout right on the job site. The program allows to define the shape of the row: linear, fan and curved shapes. Planting can be done in the two directions of travel and it is not required to drive at constant speed, since the Stonex GPS data rate can check the plant positioning in real-time.

STX-MARINE

Marine Operations

Stonex offers flexible, high-performance positioning systems to meet the unique needs of marine construction projects. Our solutions include both hardware and software, and can be easily integrated into third-party systems. Improve productivity and efficiency in underwater marine construction applications including dredging, crane operations, piling and hydrographic survey. STX-MARINE provides accurate 3D visualization to assist the operator with underwater construction tasks. Our systems are suited for dredging operations, canal/port development, land reclamation and breakwater/revetment works.
Headquartered on the outskirts of Milan, Italy, STONEX is one of the world leader company on measurement and survey, with over 80 qualified distributors worldwide.

Joined together with an unbeatable professional expertise Stonex offers a wide range of top quality services, to satisfy all pre-sales and post-sales needs.

Stonex is a part of Beijing UniStrong Science & Technology Co. Ltd, global provider of GNSS, positioning and timing technology for the geospatial market.

Thanks to the integration of different positioning technologies and software the wide range of solutions allows to meet the needs of many fields of application and industries, such as:

- Building and construction
- Land survey and cadastral survey
- GIS data collection
- 3D Scanning
- Agriculture and smart farming
- Land and structure monitoring