

Xsite



Earthmoving automation

NOVATRON
EARTHMOVING AUTOMATION

■ PART OF MOBA GROUP

Novatron Oy is a Finnish technology company focused on earthmoving automation. We develop, manufacture and deliver hardware and software and offer a wide range of services to increase the productivity, quality, and safety of our customers' operations.

The main focus of our product development is on automation and 3D measurement applications for mobile machinery; we are actively developing them in cooperation with infrastructure construction industry professionals, research institutions and universities.

We have been developing our expertise in machine control since 1991, which has made us a significant actor in digital infrastructure construction. Our expertise has also allowed us to participate in the development of industry standards and practices.

Welcome to the world of intelligent machine control.

Novatron - Part of MOBA Group

We are part of the German MOBA Group, a globally recognized trusted partner for supplying high quality solutions for earthmoving, road construction, cranes and lifters, waste management, mining, and agriculture.

www.moba-automation.com

MOBA
MOBILE AUTOMATION

MACHINE CONTROL

MORE EFFICIENCY, PRECISION AND PRODUCTIVITY

We know that quality, precision and adherence to schedule are important in your work. Using the Xsite® machine control allows you to improve the earthmoving process.

Our machine control systems guide the machine operator towards achieving the target level quickly and easily. This saves time, materials and fuel.

Xsite® MACHINE CONTROL SYSTEMS FOR MOBILE MACHINERY



Xsite® EASY

Simple 2D system for excavators



Xsite® PRO 2D

Versatile 2D system for excavators. Genuine 3D preparedness.



Xsite® PRO 3D

Intelligent 3D system for mobile machinery. Built for open InfraBIM

XSITE® - OPEN AND COMPATIBLE

Xsite® PRO 3D machine control system allows for using network correction signals, base stations and satellite positioning devices from several different suppliers without issues. This avoids having to commit to single-vendor solutions and allows you to work on different projects without fear of machine control system incompatibility. This gives you a genuine competitive advantage in a market that keeps getting tighter.

Xsite® PRO 3D is also compatible with third-party software (*BIM Cloud Services). Different openBIM data formats can also be used without additional format conversions or compatibility issues.



COMPONENTS



1.Display 2.LED-display 3.GNSS-antenna 4.GNSS-receiver 5.Computer unit 6.Sensor 7.Laser receiver

Xsite® PAD



WORKSITE TABLET WITH SUPREME INFRABIM CHARACTERISTICS

Xsite® PAD is based on our information model-based LandNova 3D software and offers its users an efficient and seamless user experience with supreme infraBIM characteristics.

The Xsite® PAD contains the same top features as our Xsite® PRO 3D machine control system, but its functions are designed for the needs of surveyors, work management and other persons responsible for the operation of the worksite.



Make the most out of your worksite tablet with the Xsite® ROVER



Xsite® PRO - BUILT FOR OPEN INFRABIM

THE BEST USABILITY

We have designed the functions in Xsite® PRO to be as simple as possible to use, so that you can focus on productive work. All the main functions, such as selecting and switching models and saving measured data, can be accessed with a single touch.

A SYSTEM FOR YOUR USE

There are different jobs requiring machine control systems. For this reason, we have based Xsite® PRO software on modules. This means that you can choose the features you need for your system. This way, you will not be paying for features you do not need. Simple, isn't it?

OPEN BIM

Xsite® PRO is compatible with third-party software (such as BIM Cloud services). Open BIM data formats can also be used without additional format conversions or compatibility issues.



RELIABLE AND POWERFUL

Xsite® PRO is designed, tested and manufactured in Finland for the challenging Northern conditions. You can rest assured that your system will work as promised, regardless of the season. The powerful Xsite® PRO allows for working with large 3D models without performance issues.

EASY TO UPDATE

The Xsite® PRO 2D configuration is very easy to update into a full 3D system. The 3D preparedness means that you only need satellite positioning devices and a software licence for the 3D update – the screen or other components do not need to be replaced!

COMPATIBLE

A compatible system allows for using network correction signals and access points from several different vendors without issues. With Xsite® PRO, you do not need to commit to single-vendor solutions. We offer you a genuine competitive advantage in a market that keeps getting tighter.



COLLECT MEASUREMENT DATA

Xsite® PRO 3D allows for quickly and easily collecting machine measurement data. Only a single touch is needed. The machine control system saves the measurement data and automatically binds it to the selected structural layer. **You no longer need to define a code for a point, as the system will do that for you!**



CREATE YOUR OWN 3D PLANS

Our systems built in modelling tool includes an assistant feature that allows you to create your own 3D models from the machine cabin. For example, you can **create lines between the existing points** or points you entered yourself in order to simplify digging cable or pipe trenches.



USE 3D MODELS WITH EASE

Xsite® PRO 3D allows you to **display all the surface models, lines, points and background maps simultaneously**. You can also measure against several targets at the same time; for example, in road construction, you can measure against the surface model and the survey line.



BENEFIT FROM INFRA BIM

Xsite® PRO 3D's advanced data processing features allow for **fully utilising infra BIM models pursuant to the open BIM standard**. When working with infra BIM models on Xsite® PRO 3D, you have access to all the information that the designer included.

Xsite® PRO 3D

OPTIMIZED FOR OPENBIM WORKFLOW

Our machine control system has been developed together with construction companies and surveyors to fully support open BIM workflow, so you can be sure that Xsite® PRO 3D will keep you on the cutting edge!

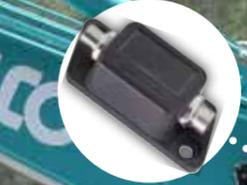
The easy-to-use Xsite PRO® 3D is full of smart features that make your work easier. All the main functions, such as selecting models and saving as-built data, can be done with a single touch. The powerful Xsite® PRO allows panning even large 3D models on the system screen, thereby letting you see the entire work plan inside the cabin.

Xsite® PRO 3D - features

- Full support for openBIM data formats. Utilize models directly from design software. No need for conversions.
- System combines different design files and shows them as a single surface, which makes working faster and easier.
- Automatic as-built data coding and linking to selected surface model.
- Support for code lists (also self produced) for logging cables, sewers etc. with the machine.
- Wireless data transfer.
- Automatic synchronization with BIM Cloud* services.



3D machine control is based on RTK-GNSS satellite positioning where the machine achieves centimetre precision by means of a correction signal from a base station or online correction service.



Fast and reliable **G2 inclination sensors** ensure precise measurement even in the roughest conditions



Xsite PRO has a **8,4" touchscreen** with modern and clear graphics.

Xsite® PRO 3D is suitable for various machine types; Dredgers, dozers, wheel loaders, telescopic boom excavators, rollers and surface drills

Xsite[®] PRO 2D

VERSATILE 2D WITH 3D-PREPAREDNESS

SIMPLE, VERSATILE 2D

Xsite[®] PRO with 3D preparedness is the perfect way to prepare for future 3D machine control needs. The system includes comprehensive 2D features and can quickly be upgraded to a 3D machine control system.

3D preparedness includes all the necessary components, such as GNSS antenna masts and a powerful computer with a large touchscreen. When a 3D system is required, you only need satellite positioning devices and 3D software for a precise 3D system.



Xsite[®] EASY

SIMPLE 2D SYSTEM

MEASURES DEPTH, DISTANCE AND SLOPE

Xsite[®] EASY is a simple measurement system that saves time and money. When you know the elevation of the bucket at a centimetre's precision, work does not need to be interrupted in order to check it.

Xsite[®] EASY is an excellent partner for earth-moving, with or without a laser!



TILTROTATOR SUPPORT



GNSS COMPASS



PROFILE CREATING TOOL



EASY UPGRADE



ELEVATION AND DISTANCE



SLOPES



LASER



WARNING LEVELS

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novatron.fi/en



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