



What is Remote Access?

GeoSLAM Remote Access is a software module that gives users access to real time SLAM processing results through an application programming interface (API). This can be used in conjunction with the **ZEB Revo RT** scanner and the new RT datalogger, and can also be mounted onto a robotics platform.

Remote Access gives users remote control of their **ZEB Revo RT** and allows them access to both the trajectory and point cloud in real time.

How does Remote Access work?

An ethernet connection is established between the scanner and the control computer which provides the user with remote control access to the **ZEB Revo RT**.

Remote Access uses specific python scripts and dependencies to remotely control the main functions of the Revo RT system. The **ZEB Revo RT** scanner has been modified to be compatible with the Remote Access API.

The python command library includes:

- ✔ Scanner start/stop
- ✔ Data download
- ✔ Data logger file control
- ✔ Scanner state messages
- ✔ Disk space and temperature checks

What is included with GeoSLAM Remote Access?

The Remote Access API consists of a series of specific python scripts and dependencies which communicate with the ROS (robot operating system) software on the scanner. Python is an open-source programming application which can be downloaded from:

<https://www.python.org/downloads/>

If you are using ROS, then ROSBridge can be used to control the scanner from within your own ROS environment.

Installation on a robotics platform allows access to dangerous and difficult to reach areas or automated site monitoring for construction projects.