

### Key features

- Professional field software for GIS data acquisition
- Compatible for Android and Windows operating systems
- Connection and data transfer from A08-RTK via Bluetooth
- Support of ESRI shapefile format
- Import of existing GIS data for editing in the field
- Export of ISOXML files
- Support of taking georeferenced photos
- Navigate to/stake out existing features
- Quality control of real-time GNSS position input



### Professional mapping solution with AGIS and AGPS

AGIS is a professional GIS software with an intuitive interface and extensive GIS functionalities. The AGPS software serves as an interface connection between the A08-RTK and the AGIS application. Both applications are available for Android and Windows operating systems and can be installed on a smartphone or tablet PC.

In the AGPS software individual profiles can be created for different tasks. The A08-RTK is connected to the external Android or Windows device via Bluetooth and the information of the transmitted NMEA messages is displayed. This includes e.g. the display of the number of tracked satellite signals (GPS, GLONASS, etc.) using a skyplot and the data for quality assessment (RMS, HDOP, etc.).

In addition to the project-controlled structure, the AGIS software offers a variety of functions for recording, maintenance and restoring geodata. This includes recording vector data in the form of points, lines and polygons, navigation/staking out and editing of individual elements. For editing, individual layers can be created and the measurement data can be individually adapted in style and labeling for display. Additional information, such as areas and lengths as well as quality information, is stored in attribute tables. Georeferenced photos can be taken for documentation purposes. For the processing of the measurements, shape files in the ESRI standard format are saved for each project.

For further processing of recorded areas in agricultural, forestry machines, etc. ISOXML files can be exported with the attribution of customer and area.



### Software's features at a glance

	Basic version	Full version
Open Project	X	X
Open Background Project		X
New Project	X	X
Add Layer		X
Enable GPS	X	X
GNSS Cursor Auto Zoom		X
Change rod height		X
Record Point	X	X
Record Points		X
Record Polyline	X	X
Record Polygon	X	X
Layer		X
Download Offline Map		X
Base Layer (Alberding OSM)	X	X
Feature Properties	X	X
Feature Liste		X
Overview / Detail		X
Select+	X	X
Delete Feature	X	X
Edit Points		X
Copy Feature		X
Create Feature		X
Feature -> Points		X
Create Raster		X
Scale Bar		X
Show Grid, Coordinates		X
Navigation		X
AGIS Options		X
Info About	X	X



### Overview of the features at a glance

#### Open Project

Opens an existing project. By clicking Open Project, a pop-up window appears to select a project file.

#### Open Background Project

A background project can be opened parallel to the actual project. In this way, you can complete existing measurements in the new project.

#### New Project

This menu item allows you to create a new project by assigning a name and defining a coordinate system.

#### Add Layer

Standard layer types include: point, points, polyline and polygon. To add a layer, you have to specify a layer name and type.

#### Enable GPS

For the connection with the GNSS receiver (A07-RTK), this function is used to establish the communication through AGPS.

#### GNSS Cursor Auto Zoom

The GNSS position is fixed in the middle of the map when moving.

#### Change rod height

Entry of the rod height in cm is possible. The rod height is attached directly to the measured heights and documented.

#### Record Point, Points, Polyline, Polygon

Intuitive operation of the capture geodata option. Stores quality parameters and additional remarks to the measurement. Calculation, display and storage of line lengths and polygon areas.

#### Layer

Lists the layers of the current project. It is possible to deactivate layers.

#### Download Offline Map

The background map (OpenStreetMap) can be downloaded and saved for a defined area.

#### Base Layer

The background map (OpenStreetMap) can be switched on and off. Internet connection must be available for displaying.

#### Feature Properties

Displays the properties (remarks and quality parameters) of the last measurement or the selected (select+) feature.

#### Feature List

It shows all the measured elements with their attributes (e. g. coordinates, recording time, DOP values) in the selected layer.

#### Overview / Detail

Centres the current measurement area in the tablet or smartphone screen.

#### Select+

This tool is used to select measured elements (points, lines and polygons). These can then for example be deleted or their properties displayed.

#### Delete Feature

In combination with the Select+ tool, it deletes measured elements (points, lines and polygons).

#### Edit Points

This tool can be used for the correction (removal and re-measurement) of individual points of lines and polygons.

#### Copy Feature

Copies the measured elements (points, lines and polygons) with their properties and stores them in a layer.

#### Create Feature

Creates and saves lines and polygons based on measured points.

#### Feature -> Points

With this tool, the measured points of the lines and polygons can be stored and displayed.

#### Create Raster

Generates a 2D raster from the current location, specifying a raster width. It is also possible to define the starting point.

#### Scale Bar

Enables/disables the display of a scale bar in the main window.

#### Show Grid, Coordinates

Enable/disable the display of a coordinate grid and the current coordinates of the position in the main window.

#### Navigation

Allows you to navigate to a point by entering the target coordinates or by selecting an existing point. It uses a colour-coded display of the distance to the target point.

#### AGIS Options

Specifies the location of project and measurement files. Adjusts the size of the icons in the main window and the appearance (light or dark).

#### Info About...

Shows the version and copyright information of the software.