

AgGPS[®] EZ-Map

Frequently Asked Questions and Answers

What is AgGPS EZ-Map?

AgGPS EZ-Map is easy-to-use affordable software that runs on handheld Pocket PCs, such as the Compaq iPAQ. It is fully-featured mapping software, which gives maximum benefit for minimum investment. It can be used for application logging, field mapping, feature mapping, sampling, scouting, and topographic mapping. It also displays background images and layers to show you exactly where you are.

Who will use AgGPS EZ-Map?

AgGPS EZ-Map is designed for a wide range of agricultural users, including growers, contractors or custom applicators for spreading, spraying, planting of crops, soil sampling, laying of irrigation tile, and planting of trees or vines. With an AgGPS 214 high accuracy GPS receiver, growers and contractors can use this in topographic mapping. Automated record-keeping with customizable data dictionaries means that anyone can use this for general operation traceability and quality assurance.

What Pocket PC can I use?

EZ-Map runs on the Compaq iPAQ 3100, 3600, and 3800 series Pocket PCs, or the HP Jornada 568. Contact your nearest Trimble Reseller to check availability of AgGPS EZ-Map for alternative Pocket PC brands.

What GPS receivers can be used with AgGPS EZ-Map?

AgGPS EZ-Map works with Trimble's entire range of AgGPS receivers when you need the highest possible accuracy and reliability, and can also work with any third-party GPS receiver or guidance system that outputs the standard NMEA GGA data format. The Trimble AgGPS 214 high accuracy GPS receiver can also be connected to AgGPS EZ-Map for topographic mapping.

What sources of differential correction can be used with AgGPS EZ-Map?

AgGPS EZ-Map operates with a Trimble AgGPS receiver of your choice, or a third-party GPS receiver that outputs NMEA GGA.

If you have an AgGPS 132 or Case Universal Receiver, beacon or satellite DGPS can be used. Both Thales (Racal LandStar) and OmniStar satellite DGPS services are supported.

If you have an AgGPS 110 or 114, WAAS or satellite DGPS can be used. Both Thales (Racal LandStar) and OmniStar satellite DGPS services are supported.

If you have an AgGPS 124 then radio beacon differential corrections are supported.

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If you have an AgGPS 214 high accuracy GPS receiver, you will also require a dedicated base station and radios to provide corrections.

How can I ruggedize my Pocket PC?

There is a range of protective cases available for Pocket PC's. For more information on available cases, contact your nearest Trimble Reseller.

How does AgGPS EZ-Map maximize profitability?

AgGPS EZ-Map maximizes investment return by improving efficiency and quality of many applications such as field and topographic mapping, material application, planting, guidance, soil sampling and record keeping. It also saves you time in the office for keeping track of your field operations and crop records by generating field summaries of your work that you can print with the included office software, ESRI ArcExplorer.

How does AgGPS EZ-Map help increase crop yields and reduce application costs?

Coverage logging maps provide proof of the job quality to customers and/or can be used for environmental or other record keeping purposes. Coverage logging lets you identify skips or overlaps in coverage, so you can remedy skips before leaving the field to reduce crop damage, improve crop yields, and avoid costly call-backs.

When the logging function is on, the coverage area being applied is logged to an ESRI Shape file in WGS-84 latitudes and longitudes. This coverage map can be easily printed from the ESRI ArcExplorer software supplied with AgGPS EZ-Map.

How do I use an external switch with AgGPS EZ-Map?

The AgGPS EZ-Map spray switch adaptor cable is supplied with AgGPS EZ-Map software. Connect a master sprayer, spreader, or planter switch to the switch adaptor cable to start and stop coverage logging automatically when crop inputs are applied or planted. Therefore, no additional buttons need to be pressed to log the field operation.

How does AgGPS EZ-Map assist with field location?

AgGPS EZ-Map displays background layers in ESRI Shapefile WGS-84 latitudes and longitudes format or images in JPEG or BMP formats to assist you to locate the required fields.

What field mapping can I perform with AgGPS EZ-Map?

AgGPS EZ-Map lets you easily define field boundaries. You can return to these fields for subsequent operations to minimize field traffic and soil compaction.

The software lets you easily map point, line, or area features "on the go" as you perform a field operation, with the simple press of a button, displaying an appropriate feature icon on the map display. You can select from a large list of supplied point, line, and area icons or line and fill styles, or customize your own. You can also create your own feature mapping data dictionaries for recording feature attributes.

By connecting to a high accuracy GPS receiver such as the AgGPS 214 you can create topographic maps that can be used to plan leveling, drainage, or irrigation work.

How accurate are the field maps I create?

By using a Trimble AgGPS Differential GPS receiver (e.g., AgGPS 132, AgGPS 124) you will achieve sub-meter or better accuracy in your field maps.

Can field area be calculated?

Area can be calculated when a field boundary is driven and mapped. Non-productive areas can also be subtracted from the field area. On a typical-sized field, the calculated area is accurate to 99 % or better.

What information can AgGPS EZ-Map collect and display?

In real time, AgGPS EZ-Map records and displays the following information:

- Field boundaries driven.
- Points, lines, or areas that were mapped (e.g., changes in crop variety, herbicide applications, hazards, tiles, weeds).
- Coverage logging maps showing field application, planting or cultivation areas.
- Track logging is an optional file that can be collected– this shows the vehicle path and collects elevations for topographic maps.

All information is logged directly into either the internal memory, or removable data card if you have one inserted in your Pocket PC.

How can I speed up land leveling and drainage work?

AgGPS EZ-Map lets you speed up land leveling or drainage work by automating the topographic mapping process using RTK GPS. RTK GPS receivers have much greater range than laser transmitters, which reduces time moving and resetting the laser transmitter. Topographic data collected by AgGPS EZ-Map can be easily loaded into AgGPS MultiPlane software for designing leveling plans, or TilePro for planning drainage lines.

How can I create reports?

AgGPS EZ-Map automates record keeping for each field event, saving time and providing valuable information for general farm records, customer relations, communication with environmental authorities and GIS data analysis.

The software lets you build your own field event data dictionaries to suit your record keeping needs.

All data is stored directly in ESRI Shapefile WGS-84 latitudes and longitudes format for easy integration to a range of GIS packages, including AgGPS ViewTrack (www.trimble.com/aggps_viewtrack.html), which lets you view and print customized spray maps and reports for your customers.

What languages are supported?

English is supported in the initial release.

Where is my data saved?

All information is logged directly into either the internal memory, or removable data card if you have one inserted in your Pocket PC.

How do I transfer data from my Pocket PC to my office computer?

If you saved data to a data card, you can easily remove this from the Pocket PC and insert into a card reader on your office computer and then copy or move files to your office computer using a program such as Microsoft Explorer.

If you saved data to the internal memory, you can use Microsoft ActiveSync to connect to your office computer and then copy or move files to your office computer using a program such as Microsoft Explorer.

What office software can I use with AgGPS EZ-Map?

A copy of ESRI ArcExplorer is provided with the system – this software lets you view and print maps and view attribute data generated by AgGPS EZ-Map

AgGPS ViewTrack software is also available to playback field events, view and print customized spray maps and reports for your customers. Download the AgGPS ViewTrack demonstration software from www.trimble.com/aggps_viewtrack.html. Contact your nearest Trimble Reseller for more information on AgGPS ViewTrack (Part Number 205 AGVT).

AgGPS EZ-Map data can also be loaded into a range of other GIS packages.

What GIS software can I load AgGPS EZ-Map data into?

AgGPS EZ-Map interfaces to a wide range of GIS and agricultural GIS software:

- *AgGPS ViewTrack* by Trimble www.trimble.com
- *AgGPS MultiPlane* by Trimble www.trimble.com
- *AGIS & ViewPoint* by Delta Data Systems www.deltadatasystems.com
- *SSToolbox* by SST Development Inc. www.sstdevgroup.com
- *AgLink* by AGRIS www.agris.com
- *ArcExplorer* and *ArcView* by ESRI www.esri.com
- *AgInfo* by Agronomy Service Bureau (ASB) www.asb1.com
- *Patchwork Office* by Patchwork Systems www.patchwork.co.uk
- *Farm Site* and *Site Pro* by FarmWorks www.farmworks.com
- *Agvance* by Software Solutions Integrated www.ssinews.com
- *MapInfo* www.mapinfo.com
- *Trimble Pathfinder Office* by Trimble www.trimble.com

How can I upgrade to more features?

The flexible, modular Trimble AgGPS products let you build your AgGPS system when you are ready – e.g. start with an AgGPS receiver and later add one of the two AgGPS Parallel Swathing Options or AgGPS EZ-Map for field computing.

The AgGPS EZ-Map software has the same look and feel as the sophisticated AgGPS FieldManager software that runs on the AgGPS 160 Portable Computer, and AgGPS 170 Field Computer. This allows you to easily transition to these products when you need features like variable rate control and planting, barcode or weather sensor data logging, advanced guidance patterns, and a rugged waterproof field computer.

What are the differences between AgGPS EZ-Map on a Pocket PC and the AgGPS 70 RDL, the AgGPS 160 Portable Computer, and the AgGPS 170 Field Computer?

	AgGPS EZ-Map on a Pocket PC*	AgGPS 70 Remote Display & Logger (RDL)	AgGPS 160 Portable Computer	AgGPS 170 Field Computer
Display	Graphical color or monochrome	2 line x 16 character text	Graphical monochrome	Graphical color
Storage Memory	Internal storage or removable data card	CompactFlash card	Internal storage, not removable	CompactFlash card
Operating voltage range	Dependant on your Pocket PC	9 to 30 volts	9 to 16 volts	9 to 36 volts
Display Software	AgGPS EZ-Map v4.0	Remote display for the AgGPS 132 receiver	AgGPS FieldManager v4.0	AgGPS FieldManager v4.0
Coverage logging display	Yes	No	Yes	Yes
External switch inputs	Yes	Yes	Yes	Yes
Works with AgGPS 21 and AgGPS 23 lightbars	No	Yes	Yes	Yes
Applications	Mapping, sampling, scouting, coverage logging, topo mapping and record keeping	Mapping, guidance, coverage logging and record keeping	Mapping, guidance, sampling, coverage logging, topo mapping, variable rate management, as-applied rate logging and record keeping	Mapping, guidance, sampling, topo mapping, coverage logging, variable rate management, as-applied rate logging and record keeping

* Pocket PC hardware is required.

What documentation is provided with AgGPS EZ-Map?

AgGPS EZ-Map comes with an easy-to-use Quick Reference Card, a 40 page manual, and on-line Help.

How is AgGPS EZ-Map ordered?

Order AgGPS EZ-Map from your nearest Trimble Precision Agriculture Resellers. To find your nearest Reseller, visit www.trimble.com/locator/sales.asp.

What is the price of AgGPS EZ-Map?

Contact your local Trimble Reseller for pricing.



For more information contact: Trimble Navigation Limited, Precision Agricultural Systems,
1-800-865-7438 or 1-913-495-2700.

