

AgGPS Parallel Swathing Option

GPS guided parallel swathing for precision farming

The parallel swathing option for the Trimble AgGPS 114, 124 & 132 series receivers is a tool that reduces operator fatigue, sets you free from the limitations of foam markers, and becomes the heart of your precision farming operation.

Use an AgGPS 114, 124 or 132 with the parallel swathing option to drive straight rows in any visibility condition, day or night, dust or fog, wind or calm. Increase your effective swath width and reduce fuel, chemical, fertilizer, and other input material expenses. Cover more field in less time with less environmental impact. Extend hours in operations like field preparation, seeding, and fertilizer or chemical application. You can even calculate field area on the fly.

Trimble makes parallel swathing easy. Enter the width of your applicator. In the field, mark the beginning and end of your first swath. On the next and all remaining swaths, the lightbar indicates how far left or right your location is to the desired path. Use the light-bar to help steer on-line.

When you turn at the end of a row, the parallel swathing option automatically begins guidance down the next swath. Leave the field in mid-swath and the Pause/Resume function guides you back to the location

last worked and lets you begin swathing as before. Depending upon your needs, Closed Circuit, A-B Endzone, Follow Curve and Auto Mark headlands can be set.

While providing parallel guidance, the AgGPS 114, 124 & 132 receivers simultaneously output accurate position information in NMEA 0183 format to precision farming devices, including yield monitors, variable rate controllers and portable field computers. To ensure compatibility, the NMEA output data rate is configurable.

Accurate position information is derived with the AgGPS 132's The Choice™ technology. This technology is the combination of a high-performance GPS receiver, a

beacon differential receiver and a satellite differential receiver all in the same housing.

The AgGPS 114, 124 & 132 series receivers provide sub-meter differential positioning and 0.1 mile per hour (0.16kph) velocity accuracy on almost any farm in the world without additional hardware costs. GPS positions are computed using robust differential processing techniques, allowing operation to begin a few seconds after you switch on your machine. The AgGPS 124 beacon differential receiver uses the broadcasts from established free navigation beacon reference stations around the world. The AgGPS 114 & 132 satellite differential receivers provide multiple vendor support. Its use requires a service subscription.



AgGPS Parallel Swathing Option

Features

- In-cab dash or ceiling mounted lightbar with data/power cable
- Fast Rate positioning and Everest™ multipath reduction technology while swathing
- A-B parallel guidance (straight line swathing)
- Headlands
- Field area calculation
- Navigation back to work stop locations
- Headland Approach warning
- Automatic swath increment
- Lightbar Text Display Selections:
 - GPS status
 - Current swath & speed
 - Start and end line distance
 - True heading
 - Heading error
 - Cross track error
 - Ground Speed
- Configurable:
 - Lead-time prediction for smooth navigation
 - Swath pattern type for guidance
 - Headland type for guidance
 - Swath width
 - LED (light) interval
 - Units of measure (Metric or US)
 - Headland Approach Warning

Lightbar Physical Characteristics

Size:	23cm W x 7.5cm D x 6.4cm H (with Mounting Bracket)
Weight:	0.45kg (1 lb)
Power:	1.2W (max), 9 to 36 VDC
Operating temp:	-20 to +65 °C
Storage temp:	-30 to +75 °C
Casing:	Cast aluminum, polycarbonate non-scratch lens, dust proof, splash resistant, shock resistant
Humidity:	95% non-condensing

AgGPS Parallel Swathing Benefits

- Improves crop production potential
 - Reduces field skip of pesticides, fertilizers and other inputs
 - Reduces field overlap ensuring recommended amounts of agri-chemicals are not over-applied
- Increased swath efficiency cuts operating costs
 - Reduces fuel and application material inputs
 - More field acres covered in less time
 - Extend work hours in low visibility conditions
 - Reduces environmental impact
- Eliminates foam marker system
 - No on-going operating costs for foam
- Reduces operator fatigue when driving long hours
- Pause/Resume guidance feature allows operator to stop applying in mid-swath and return to exact stop point later
- AgGPS 132 receiver can be used in other farm management applications
 - Field mapping
 - Yield monitoring
 - Variable rate application
 - Crop scouting
 - Soil sampling

Ordering Information

Parallel Swathing Option	Part Number 34623-00
<i>(Order AgGPS 124 or 132 separately)</i>	
AgGPS 124	Part Number 33606-00
AgGPS 132	Part Number 33300-00
PSO Plus for AgGPS 124/132	Part Number 34623-30
Parallel Swathing Option for AgGPS 114 & AgGPS 70 RDL	Part Number 34623-20
PSO Plus for AgGPS 114	Part Number 34623-40
AgGPS 114	Part Number 38200-00
AgGPS 70 RDL	Part Number 39600-00

Trimble follows a policy of continuous product improvement. Specifications are thus subject to change without notice. These products are intended for marine use.



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