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AgGPS 900 Radio

What is the AgGPS 900 radio?

The AgGPS[®] 900 radio provides a robust radio network for real-time, high-precision agricultural GPS applications. The AgGPS 900 rover radio is designed to provide a seamless radio solution for Real Time Kinematic (RTK) applications, specifically for the AgGPS 252 receiver.



Why would I use the AgGPS 900 radio?

Coupled with a Trimble[®] AgGPS Autopilot[™] system, the AgGPS 900 radio and the AgGPS 252 receiver will provide 1 inch row to row and year to year accuracy by using an RTK solution.

How will the AgGPS 900 radio benefit my operation?

- The AgGPS 900 radio gives 1-inch row to row and year to year accuracy using RTK¹ when used with the AgGPS 252 receiver and supporting base-station.
- Because the AgGPS 900 radio and the AgGPS 252 receiver are essentially integrated, the system is easy to transfer between vehicles.
- The radio is easily installed onto the AgGPS 252 GPS receiver, the combination is a low profile solution that won't get caught on any overhanging branches.

How rugged is the AgGPS 900 radio?

The AgGPS 900 radio is designed and built especially for the Agriculture environment. Fully sealed against dust, rain, splash, and spray, the AgGPS 900 radio is reliable and built for the roughest of agricultural applications.

What is the operating range of the AgGPS 900 radio?

Typical range of the AgGPS 900 radio is 2-3 miles (3-5 km) line-of-sight up and up to 6 miles (10 km) under optimal conditions.

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What frequency range does the AgGPS 900 radio perform?

This versatile Trimble radio operates in the frequency range of 902–928 MHz, receiving real-time data used by the AgGPS 252 GPS receiver.

Where can I operate the AgGPS 900 radio?

The AgGPS 900 radio is certified for license-free operation¹. This makes the AgGPS 900 radio extremely portable; you can move it from field to field without licensing hassles and restrictions.

What radio performance should I expect from the AgGPS 900 radio?

The AgGPS 900 radio has increased sensitivity and jamming immunity that provides operational reliability in demanding RF environments where many other products and technologies can't perform. The RF performance of the AgGPS 900 radio further ensures that you will be up and running when you need to be.

Is the AgGPS 900 radio compatible with the Trimble TRIMCOMM and SiteNet radios?

Yes. The AgGPS 900 radio is fully compatible with the SiteNet 900 and TRIMCOMM 900 radios. The AgGPS 900 radio fully supports Trimble CMR, CMR+ and RTCM data types and the new controlled broadcast functionality.

How many networks does the AgGPS 900 radio support?

The AgGPS 900 radio is capable of supporting 40 different networks providing more flexibility in demanding Agricultural environments. The large variety of networks selectable ensures less down time and optimal performance due to jamming.

What is RTK?

When using Real Time Kinematic (RTK) mode, positions are computed using robust processing techniques that provide highly accurate positions. This highly precise technique requires an RTK base station, which using the AgGPS 900 radio transmits real-time positional carrier phase data over a radio data-link to the AgGPS 252 receiver (known as the rover). The AgGPS 252 receiver then computes its position, the result is sub-inch overall guidance and positioning at the rover.

Can I upgrade the AgGPS 900 firmware ?

Yes. Firmware enhancement updates can be downloaded from the Trimble website, so you can benefit from continued product enhancement.

¹ In the U.S.A., Canada, Australia, and New Zealand.