

# AG963



## Base Station for AG960 & AG961 Autosteer Systems

### Overview

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The AG963 Autosteer base station is a high-precision navigation reference product capable of receiving and processing navigation signals from GPS, GLONASS and BeiDou satellites, as well as broadcasting satellite observations via data transceivers. It can be employed within GNSS Autosteer systems, GNSS land leveling systems, geodetic surveying, construction engineering and other fields.

The base station is designed to be easily carried, transported and rapidly deployed. It provides a high-precision differential data broadcasting service for mobile stations within a radius of 5km. For example, in precision agriculture, an AG960 Base Station cooperating with an AG960 Autosteer System provides driver assists on farming machines to improve the precision and efficiency of agricultural operations and reduce the drivers' work effort.



### Key Features

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Centimeter-level accuracy using multi-frequency GNSS receiver technology in a rugged, all-in one enclosure

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Fast RTK fix and reacquisition times

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Strong multipath mitigation and interference rejection

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Wide input operating voltage range (9V - 36V), high transient protection for any power source

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Long range RTK baselines of up to radius 5km with internal radio, further distances can be reached with an external radio

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### In the Box

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- 1 × GNSS receiver
- 1 × Power cable
- 1 × GNSS antenna
- 1 × GNSS antenna RF cable
- 1 × Mount of radio RF antenna
- 1 × Radio RF antenna cable
- 1 × Slender radio transmitter antenna rod
- 1 × Thick radio transmitter antenna rod
- 1 × Antenna bracket assembly
- 1 × Tripod



# Technical Specifications

## GNSS Receiver

Frequencies:	GPS L1/L2, GLONASS L1/L2, BeiDou B1/B2, Galileo, QZSS
RTK Accuracy:	
– Horizontal:	10mm+1ppm
– Vertical :	20mm+2ppm
Correction I/O Protocol:	RTCM v2.3, RTCM v3.2, CMR, CMR+
Dimensions:	228×171×57mm
Weight:	1.4Kg

## GNSS Antenna

Frequencies:	GPS L1/L2, GLONASS L1/L2, BeiDou B1/B2/B3
Polarization:	RHCP
Axial Ratio:	≤3dB
Azimuth Coverage:	360°
Output VSWR:	≤2.0
Peak Gain:	5.5dBi
Phase Center Error:	±2mm
Dimensions:	Φ152×62.2mm
Weight:	374g

## Radio

Radio channel number:	15
Frequency:	452-467 MHz
Radio transmitting power:	2W
Operation range (Radio):	≤5 km
Radio transmitting antenna length:	1m

## Physical

Operation Temperature:	-40°C ~ +70°C
Power Consumption:	≤5 W (12V battery)
Equipment Weight:	≤9 kg
Dust & Water Proof:	IP67

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