

# Base Station

FJD Base Station utilizes advanced RTK technology and data transmission with stability and efficiency to satisfy users' requirements for precise coordinate positioning.

## 01 Centimeter-level Three-dimensional Positioning

Integrating multiple data transmission can provide real-time differential data for various machines and realize centimeter-level three-dimensional positioning and precise orientation, covering a radius of 5 kilometers where there is no interference or shield.

## 02 16 Bands of Five Satellite Navigation Systems Supported

It can receive signals from 16 frequency bands of five satellite navigation systems, including GPS, GLONASS, Beidou, GALILEO and QZSS.

## 03 Intelligent Channel Detection

With built-in anti-interference and high-gain antenna and high-performance receiver, it is able to receive more satellite signals through intelligent channel detection, and reduce user operations. It can still offer real-time positioning for farming machinery when obstruction is serious.

## 04 Quick Setup

IP65 industrial protection is suitable under various outdoor operating environmental conditions. Rapid base station setup can be realized so long as the right location is selected.

## 05 Modular Design

Base station module realizes base station positioning.

Bracket realizes unobstructed working environment and ensures the accuracy and strength of signals.

Antenna stand module (optional) secures stronger positioning signals with the support of external antenna.

## 06 Removable Battery

Dual-battery provides 12-hour duration and AC power supply supports hot plugging. battery can be replaced without powering off. Continuous operation is guaranteed.



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## Application Scenarios

- As a mobile station, it is often used for setting datum points in fields.
- As a reference station, it is used to provide real-time kinematic relative positioning for the automation of agricultural machinery.
- As a CORS reference station, it is used to provide network RTK service for the automation of agricultural machinery.

## Product Specifications

Item	Satellite Navigation Base Station	
Satellite and Positioning	Satellite Tracking	624 channels available; complete constellation of Beidou supported
	Tracking Features	BDS: B1/B2, (Can be upgraded to B3)
		GPS: L1/L2 GLONASS: L1/L2 GALILIEO: E1/E5B QZSS: L1/L2
	RTK Positioning	Plane: 1cm+1ppm
	Accuracy	Elevation: 1.5cm+1ppm
	Single Point Positioning	Plane: 1.5m
	DGPS	Elevation: 2.5m
	Accuracy	Plane: 0.4m
	Positioning Update Rate	Elevation: 0.8m
	Initialization Time	1Hz, 2Hz, 5Hz, 10Hz and 20Hz
	Recapture	<10 seconds
	Initialization Reliability	<1 second
	Differential Data Transport Format	>99.9%
	Battery Features	RTCM v3.0/3.2
Communication Unit	Built-in Radio Station	Double battery compartments, 10400mAh 7.4V (single battery 5200 mAh) Mobile station lasts up to 12 hours, hot plugging supported
	WiFi Communication	Input: AC 100-240V 50/60Hz Output: 12V 5A QC3.0 fast charge
	Dimensions	Built-in integrative receiving and transmitting radio station, with automatic optimal channel selection Frequency range: 410~470MHz Transmitting power: 1W or 5W
Physical Properties	Material	802.11 a/b/g/n
	Water and Dust Resistant	Φ178*110mm
	Working Temperature	Aluminum alloy
	Storage Temperature	IP65
		-40°C--65°C
		0°C--75°C