

What is GNSS?

[GNSS](#) is the abbreviation of Global Navigation Satellite System (GNSS), including China's BeiDou Satellite Navigation System (BDS), the U.S. Global Positioning System ([GPS](#)), Russia's GLONASS Global Navigation Satellite System (GLONASS), and the European Union's Galileo satellite navigation system (GALILEO), the system allows the UAV to locate itself in real time, which in turn allows it to hover and stabilize its flight.

When the [UAV GNSS signal](#) is weak, the impacts that can occur are The key to the [GNSS system](#) is to realize the reception and resolution of satellite signals, of which signal tracking is one of the key technologies.

However, under certain conditions, such as high latitude areas, dense urban high-rise building areas, and laminar cloud weather, the GNSS signal may become weak, which in turn leads to poor positioning results.

In the case of poor GNSS signals but sufficient ambient light, the vision system can provide the UAV with localization and environment sensing capabilities to help the UAV achieve stable hovering.

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Omni Ultra-wideband 3G/4G/5G [4x4 MIMO Antenna](#)

4G 4G WiFi GPS 4x4 [MIMO Omnidirectional Antenna](#)

[4x4 MIMO External Antenna](#) for WiFi 4G LTE GPS

Low-profile [2x2 MIMO 5G Antenna](#)

New Radio Omni Outdoor [3x3 MIMO 5G Antenna](#)

[MIMO Antenna 4G 3x3 External Cellular Antenna](#)

[2x2 MIMO Antenna](#) for LTE 5G/GPS 3in1 Combo Antenna

External [Antenna MIMO 2x2 4G/5G Dome Antenna](#)

Low-profile 4G/5G [Puck Antenna](#)

3x3 MIMO [5G LTE GPS Combo Antenna](#)

4G 4G GPS 3x3 [MIMO Vehicle Antenna](#)

4x4 MIMO [5G 4G GPS/Cellular/WiFi Multi-Band Antenna](#)

Low-profile 5G 5G GPS [3x3 MIMO Antenna](#)

Low-profile 3x3 [5G 4G LTE WiFi MIMO Antenna](#)

Low-profile 4G + 5G + WiFi + GPS [4x4 MIMO Antenna](#)