

Specs

GNSS Receiver

GNSS Frequency

GPS: L1C/A, L2C, L5
 BDS: B1I, B2I, B3I, B1C, B2a, B2b
 GALILEO: E1, E5a, E5b, E6
 GLONASS: L1, L2
 QZSS: L1C/A, L2C, L5
 L-Band

System Accuracy*

Base Station Mode (Broadcast Mode) and Relay Station Mode

Base Station Accuracy:
 Single Point Accuracy (Uncalibrated):
 Horizontal: 1.5 m (RMS)
 Vertical: 3.0 m (RMS)

Satellite-Based Differential Accuracy:
 Convergence Time: 20 mins
 Horizontal: 30 cm (RMS)
 Vertical: 40 cm (RMS)

Network RTK Calibration**:
 Horizontal: 1.0 cm (RMS) + 1 ppm
 Vertical: 3.0 cm (RMS) + 1 ppm

Rover Station Mode

RTK Accuracy (Fixed Survey)*:
 Horizontal: 0.8 cm (RMS) + 1 ppm
 Vertical: 1.5 cm (RMS) + 1 ppm

RTK Accuracy (Tilt Survey)***:
 Angle Range: 0° to 60°
 Horizontal: 8 mm + 0.7 mm/° tilt (accuracy <2 cm within 30°)

* Measurement accuracy depends on various factors. This value is obtained under normal conditions with an unobstructed view, good satellite geometry, low ionospheric activity, and no electromagnetic interference or multipath effects.

** Base station calibration coordinate accuracy depends on various factors. For surveying, high-precision flight paths, etc., it is recommended to use during periods of inactive ionosphere, in open, unobstructed environments with no electromagnetic interference or multipath effects, using GNSS systems.

*** Intense vibrations and rapid rotations can affect the accuracy of the inertial measurement unit.

Satellite-Based Precise Point Positioning*

Supported Frequencies: BDS B2b, GALILEO E6, L-BAND**
 Convergence Time: 20 mins
 Horizontal: 30 cm (RMS)
 Vertical: 40 cm (RMS)

* Measurement accuracy depends on various factors. This value is obtained under normal conditions with an unobstructed view, good satellite geometry, low ionospheric activity, and no electromagnetic interference or multipath effects.

** Will be supported in later versions.

- 1. Supports RTCM v3.0, v3.1, v3.2, v3.3, MSM4, MSM5, MSM6, MSM7 protocols.
- 2. It is recommended to use receivers that support four or more GNSS systems.

Initialization Reliability >99.9%

Video Transmission

Video Transmission System O4 Enterprise

Operating Frequency

Relay Station Mode:
 O4: 2.4 GHz/5.2 GHz/5.8 GHz
 Base Station Mode:
 O4: 2.4 GHz/5.8 GHz
 Rover Station Mode:
 BLE: 2.4 GHz

Operating frequency allowed varies among countries and regions. Please refer to local laws and regulations for more information.

Transmitter Power (EIRP)

2.4000 GHz to 2.4835 GHz:
 <33 dBm (FCC)
 < 20 dBm (CE/SRRC/MIC)

5.150 GHz to 5.250 GHz:
 <23 dBm (CE/FCC)

5.725 GHz to 5.850 GHz:
 <33 dBm (FCC)
 <30 dBm (SRRC)
 <14 dBm (CE)

Bluetooth

Protocol: Bluetooth 5.1
 Frequency: 2.400 GHz to 2.4835 GHz
 Transmitter Power (EIRP): <10 dBm

Max Transmission Distance (unobstructed, free of interference)

Base Station Mode:

- 1. Between D-RTK 3 and Matrice 400:
 FCC: 40 km
 SRRC/CE/JP: 20 km
- 2. Between D-RTK 3 and other aircraft:
 FCC: 15 km
 SRRC: 12 km
 CE/JP: 8 km

Rover Station Mode:
 Between D-RTK 3 and mobile devices: 30 m

Measured in an unobstructed outdoor environment free of interference. The above data shows the farthest communication range for on flights under each standard. Always pay attention to RTH reminders in the app during your flight.

Max Transmission Distance in Relay Station Mode (unobstructed, free of interference)

FCC
 Between the aircraft and the relay station: 25 km
 Between the relay station and the remote controller/DJI Dock 3: Recommended within 1 km; maximum (unobstructed, free of interference)

SRRC
 Between the aircraft and the relay station: 12 km
 Between the relay station and the remote controller/DJI Dock 3: Recommended within 1 km; maximum (unobstructed, free of interference)

CE

D-RTK 3 Multifunctional Station

Spe

(unobstructed, with interference)

* The relay station should be deployed only after a field survey. If there is interference or obstruction at the chosen location, and the survey is unsuitable for deploying dock, "Unable to use RTK positioning," or indicates other unsuitable conditions, the site is not recommended. This functions such as relay station upgrade and log download. It is recommended to install the relay station on rooftops, tower tops, or other unobstructed, and interference-free locations.

** Measured in an unobstructed outdoor environment free of interference. The above data shows the farthest communication range for return flights under each standard. Always pay attention to RTH reminders in the app during your flight. The relay station should be placed in an unobstructed location to ensure clear communication between the remote controller and the aircraft.

Max Transmission Distance (unobstructed, with interference)

Strong interference: City centers, approx. 1.5-5 km
Medium interference: Suburban areas, approx. 5-15 km
Micro interference: Remote areas/seasides, approx. 15-25 km

Data is tested under FCC standards in unobstructed environments of typical interference. Only to serve as a reference and provides no guarantee of actual flight distance.

Max Transmission Distance (obstructed, with interference)

Low Interference and Obstructed by Buildings: approx. 0-0.5 km
Low Interference and Obstructed by Trees: approx. 0.5-3 km

Data is tested under FCC standards in unobstructed environments of typical interference. Only to serve as a reference and provides no guarantee of actual flight distance.

Relay Station Range Extension Effect

Relay Station Performance Enhancement:
Severe obstruction (e.g., buildings, mountains): 3x to 5x performance improvement
Mild obstruction (e.g., trees, glass): 1x to 3x performance improvement

The relay station must be deployed in an elevated, unobstructed location free of interference.

Antenna

OcuSync 4 directional antennas× 4, 2T4R

The antenna uses a standard reverse polarity SMA connector.

Others

D-RTK 3 Relay Fixed Deployment Version: Compatible with DJI Cellular Dongle 2

Electrical Properties

Power

D-RTK 3 Multifunctional Station:
Relay Station: 14.5 W*
Base Station: 7 W
Rover Station: 6.2 W

* Maximum power consumption without heating. When connected to a USB-C power supply above 9V, maximum power consumption will be 14.5 W.

D-RTK 3 Relay Fixed Deployment Version:
Relay Station: 14.5 W**

** Max power consumption without heating. When connected to a PoE power supply of Type 4, maximum power consumption with heating will be 14.5 W.

Power Output Port

D-RTK 3 Multifunctional Station: USB Type-C
D-RTK 3 Relay Fixed Deployment Version: USB Type-C and Ethernet Port (PoE)

Supported Power Adapter

D-RTK 3 Multifunctional Station:
USB PD 3.0 protocol, output voltage 9V to 15V adapter (e.g., DJI 65W Portable Charger)

When using a non-recommended charger, such as a charger with 5V-output, the D-RTK 3 can be charged only after powering off.

D-RTK 3 Relay Fixed Deployment Version:
DJI Dock 3 PoE Output Port
Third-party PoE Power Supplies:

D-RTK 3 Multifunctional Station

Spe

Battery Operating Time (Under Normal Temperature)*

D-RTK 3 Multifunctional Station:
 Relay Station: 4 hrs
 Base Station: 7 hrs
 Rover Station: 10 hrs

D-RTK 3 Relay Fixed Deployment Version:
 Relay Station: 4 hrs**

* Battery performance may decrease in low temperatures; it is recommended to use power adapters that support the USB PD 3.0 protocol.
 ** When powered by PoE, the device battery enters preservation mode and does not fully charge. Upon PoE disconnection, the built-in battery has up to 2 hours of runtime.

Ethernet Cable Requirements

D-RTK 3 Multifunctional Station:
 Ethernet not supported

D-RTK 3 Relay Fixed Deployment Version:
 Requires Cat 6 twisted-pair cable, ≤100m length, 6-9mm outer diameter.

Battery

LiPo
 Capacity: 6500 mAh
 Energy: 46.8 Wh

Physical Characteristics

Operating Temperature

D-RTK 3 Multifunctional Station: -20° to 55° C (-4° to 131° F)
 D-RTK 3 Relay Fixed Deployment Version: -30°C to 55° C (-22° to 131° F)

1. In normal temperature environments, charging power will be limited if the device shell temperature exceeds 48°C (118.4°F). Full power resumes after cooling.
2. After storage/use in low temperatures, the device needs to be brought to a normal temperature environment and allowed to warm up until the battery temperature is >0°C (32°F) before charging.
3. After storage/use in high temperatures, the device needs to be brought to a normal temperature environment and allowed to cool down until the internal battery temperature is <45°C (113°F) before charging.
4. When connected to Type 4 PoE power, the D-RTK 3 Relay Fixed Deployment Version enables heating for low-temperature startup.

Altitude

6000 m

Protection Rating

D-RTK 3 Multifunctional Station: IP67*
 D-RTK 3 Relay Fixed Deployment Version: IP67**

* Please ensure all rubber seals are securely installed for optimal performance.

** The rubber seal on the PoE input port of the Fixed Deployment Version provides IPX5-rated protection. IP67 protection requires installing a dedicated PoE port connector and cable.

Drop Resistance

D-RTK 3 Multifunctional Station: 2 m drop with pole

Dimensions

D-RTK 3 Multifunctional Station: 163 mm × 89 mm (without OcuSync Directional Antennas)
 D-RTK 3 Relay Fixed Deployment Version: 163 mm × 344 mm

Weight

D-RTK 3 Multifunctional Station: Approx. 1.26 kg (2.78 lbs)
 D-RTK 3 Relay Fixed Deployment Version: Approx. 2.24 kg (4.94 lbs)

Product Categories

Where to Buy

Fly Safe

Explore

Community

Consumer

DJI Online Store

Fly Safe

Newsroom

SkyPixel

Professional

Flagship Stores

DJI Flying Tips

Buying Guides

DJI Forum

Enterprise

DJI-Operated Stores

STEAM Education

Developer

D-RTK 3 Multifunctional Station

Spe

Services

DJI Care

DJI Care Refresh

Agricultural Drone Dealer

Pro Retailers

DJI Store App

Cooperation

Become a Dealer

Apply For Authorized Store

Repair Services

Help Center

After-Sales Service Policies

Download Center

Security and Privacy

DJI Affiliate Program

Your email ac



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