

# D-RTK 2 Specs

## GNSS Receiver

<b>GNSS Frequency</b>	Simultaneously receive: GPS: L1 C/A, L2, L5 BEIDOU: B1, B2, B3 GLONASS: F1, F2 Galileo: E1, E5A, E5B
<b>Positioning Accuracy</b>	Single Point Horizontal: 1.5 m(RMS) Vertical: 3.0 m(RMS) RTK Horizontal: 1 cm+ 1 ppm(RMS) Vertical: 2 cm+ 1 ppm(RMS) 1 ppm: For every 1 km increase in distance, the accuracy will be 1 mm less. For example, the horizontal accuracy is 1.1 cm when the receiving end is 1 km away from the base station.
<b>Positioning Update Rate</b>	1 Hz, 2 Hz, 5 Hz, 10 Hz and 20 Hz
<b>Cold Start</b>	<45 s
<b>Hot Start</b>	<10 s
<b>Recapture Time</b>	<1 s
<b>Initialization Reliability</b>	>99.9%
<b>Differential Data Format</b>	RTCM 2.X/3.X

## IMU

<b>Features</b>	Built-in high-precision 6-axis accelerometer D-RTK 2 movement monitoring Sloping measurements Electronic bubble level
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## Physical Characteristics

<b>Dimensions(D-RTK 2 body with extension rod)</b>	68 mm×168 mm×1708 mm
<b>IP Rating</b>	IP67

## Communication and Data Storage

<b>Data Link</b>	OcuSync, Wi-Fi, LAN, 4G
<b>Operating Frequency</b>	2.400 GHz to 2.483 GHz (China, United States, Australia, Europe, Japan, Korea) 5.725 GHz to 5.850 GHz (China, United States, Australia)
<b>EIRP</b>	OcuSync 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 26 dBm 5.8 GHz FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 22 dBm 5.8 GHz FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 22 dBm
<b>Communication Distance</b>	OcuSync: 2 km (unobstructed and free of interference, when the distance from the D-RTK 2 antenna to the bottom of the tripod is 1.8 m, when the difference in height between the remote controller and D-RTK 2 is less than 2 m, and when the remote controller is 1.2 m from ground level)
<b>Memory Capacity</b>	16 GB

## Electrical Characteristics

### Power Consumption 12 W

<b>Power Supply</b>	16.5 to 58.8VDC
<b>Battery</b>	Type: Lithium-ion battery Capacity: 4920 mAh Energy: 37.3 WH
<b>Run Time</b>	WB37 battery: >2 h MG-12000P battery: >50 h

## Operating Temperature

**Operating Temperature** 32° to 113° F (0° to 45° C)