

D-RTK 2 COMBO



D-RTK 2 MOBILE STATION

GNSS RECEIVER

GNSS Frequency

Simultaneously receive:

GPS: L1 C/A, L2, L5

BEIDOU: B1, B2, B3

GLONASS: F1, F2

Galileo: E1, E5A, E5B

Positioning Accuracy

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.

Positioning Update Rate

1 Hz, 2 Hz, 5 Hz, 10 Hz and 20 Hz

Cold Start

<

45 s

Hot Start

<

10 s

Recapture Time

<

1 s

Initialization Reliability

>

99.9%

Initialization Reliability

>

99.9%

Differential Data Format

RTCM 2.X/3.X

IMU

Features

Built-in high-precision 6-axis accelerometer

D-RTK 2 movement monitoring

Sloping measurements

Electronic bubble level

PHYSICAL

CHARACTERISTICS

Dimensions(D-RTK 2

body with extension rod)

168 mm×168 mm×1708

mm

IP Rating

IP65

ELECTRICAL

CHARACTERISTICS

Power Consumption

12 W

Power Supply

16.5 to 58.8VDC

Battery

Type: Lithium-ion battery

Capacity: 4920 mAh

Energy: 37.3 WH

Run Time

WB37 battery: >2 h

MG-12000P battery: >50 h

OPERATING TEMPERATURE

Operating Temperature

4° to 131° F (-20° to 55° C)



GRIDX
metering and control

D-RTK 2 COMBO



COMMUNICATION AND DATA STORAGE

Data Link

OcuSync, Wi-Fi, LAN, 4G

Operating Frequency

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)

EIRP

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

Communication Distance

Operating Mode 1/3

SRRC/NCC/FCC/MIC/KCC/CE: 2 km

(Unobstructed and free of interference, when the D-RTK 2 Mobile Station is used as a base station and 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)

Operating Mode 4

Between the aircraft and mobile station: NCC/FCC: 7 km; SRRC/MIC/KCC/CE: 5 km

Between the remote controller and mobile station: 200 m (Unobstructed and free of interference at a flying altitude of about 120 m, when the distance from the D-RTK 2 antenna to the bottom of the tripod is 1.8 m, and when the remote controller is 1.2 m from ground level)

Operating Mode 5 NCC/FCC: 12 km; SRRC/MIC/KCC/CE: 6 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)

Memory Capacity

16 GB



GRIDX
metering and control

D-RTK 2 COMBO

DIMENSION

Internal dimension

1281x279x243(mm) - 50.43x10.98x9.57(in)

External dimension

1330x335x285(mm) - 52.36x13.19x11.22(in)

WEIGHT

7,20kg - 15.87lbs

TEMPERATURE RATING

Minimum

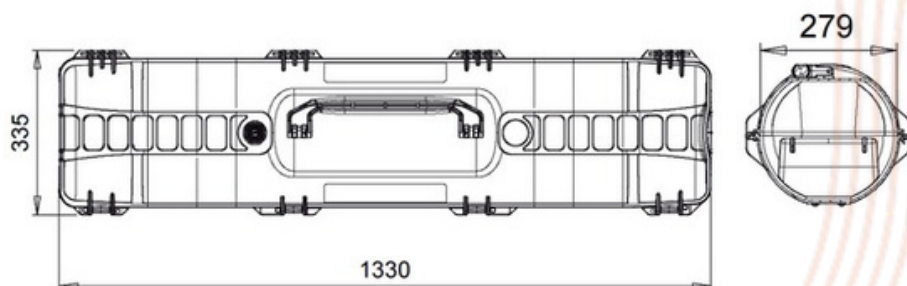
-40°C -40°F

Maximum

+80°C +176°F



TECHNICAL DRAWING



GRIDX
metering and control