Antigravity A1 Drone

Name	Antigravity A1 Drone
Model	DE001
Takeoff Weight	With Flight Battery 249g
	With High-Capacity Flight Battery weighs 291g
Size	Folded: length 141.3mm, width 96.2mm, height 81.4mm
	Unfolded: Length 308.6mm, Width 382.3mm, Height 89.2mm
Maximum Ascent Speed	8 m/s (S Mode) 6 m/s (N Mode) 3 m/s (C Mode) *Tested in a controlled windless environment at 25° C (77° F) at an altitude below 50m (164 feet).
Maximum Descent Speed	8 m/s (S Mode) 6 m/s (N Mode) 3 m/s (C Mode) *Tested in a controlled windless environment at 25° C (77° F) at an altitude below 50m (164 feet).
Maximum horizontal speed (at sea level, no wind)	16 m/s (S Mode) 12 m/s (N Mode) 3 m/s (C Mode) *Tested in a controlled windless environment at 25° C (77° F) at an altitude below 50m (164 feet).
Maximum Takeoff Altitude	4,000m (13,000ft) with Flight Battery 3,000m (10,000ft) with High-Capacity Flight Battery
Maximum Flight Time	Flight Battery: approximately 22 minutes

	High-Capacity Flight Battery: approximately 35 minutes
	Test Conditions:
	Obtained under the conditions of an ambient temperature of 25° C, at altitude of <50m, a windless environment in the laboratory, camera parameters set to 5.2K/30fps without video recording enabled, and the drone in a hovering state. The actual flight time may vary depending on different external environments, usage patterns, and firmware versions. Please refer to your actual experience.
Max Wind Speed Resistance	10.7 m/s (Level 5)
Operating temperature	-10° C to 40° C (14° C to 104° F)
Supported memory card types	MicroSD, up to 1T
Classification	Equipped with Flight Battery EU C0
	Equipped with High-Capacity Flight Battery EU C1

Image transmission (divided into SDR, Bluetooth, Wi-Fi)

Operating Frequency Band	2.400 GHz - 2.4835 GHz
	5.170 GHz - 5.250 GHz
	5.725 GHz - 5.850 GHz
	5.150 GHz to 5.250 GHz and 5.725 GHz to 5.850 GHz are only used in countries and regions where permitted by relevant regulations.
Transmit Power (EIRP)	2.4GHz:

	＜33dBm（FCC）
	＜20dBm (CE/SRRC/MIC)
	5.1GHz:
	＜23dBm（CE/FCC)
	5.8GHz
	＜33dBm（FCC）
	＜30dBm（SRRC）
	＜14dBm（CE）
Maximum effective signal range (no interference, no obstruction)	10km (FCC）
	8km (SRRC)
	6km (CE)
	Measured at an ambient temperature of 25° C in an outdoor environment without interference or obstruction. The above data shows the maximum one-way non-return communication distance under each standard. The actual maximum distance may vary depending on different external environments, usage methods, and firmware versions. Please refer to your actual experience.
Antenna	4 Antennas, 2T2R

WI-FI

Agreement	802.11a/b/g/n/ac
Operating Frequency Band	2.400 GHz - 2.4835 GHz
	5.170 GHz - 5.250 GHz
	5.725 GHz - 5.850 GHz
	Note: 5.150 GHz to 5.250 GHz and 5.725 GHz to 5.850 GHz are only used in countries and regions where permitted by relevant regulations.
EIRP	2.4GHz:
	＜20dBm（CE/SRRC/FCC）
	5.1GHz:

	＜20dBm（FCC/CE/SRRC）
	5.8GHz
	＜20dBm（FCC/SRRC）
	＜14dBm（CE）

Bluetooth

Agreement	BT5.0
Operating Frequency Band	2.400 GHz - 2.4835 GHz
EIRP	<10dBm

GNSS

Satellite Navigation System	GPS + BeiDou+GALILEO

Standard Flight Battery

Drone-compatible battery	BDEmini-2360-7.16
Capacity	2360mAh
Weight	<67.5g max
Nominal Voltage	7.16v
Charging Limit Voltage	8.6V
Battery Type	Li-ion 2S
Energy	16.9Wh

Charging Environment Temperature	5~45℃ (charging will stop if the cell temperature exceeds 55℃ during the charging process)
Charging Time	Ambient temperature 25° C
	Charge using the Antigravity 65W GaN Fast Charger via the Antigravity A1 Charging Hub
	Single battery: Charging from 0% to 100% takes approximately 45 minutes
	Three batteries: Charging from 0% to 100% takes approximately 2 hours and 15 minutes
	Charge through the aircraft using the Antigravity 65W GaN Fast Charger
	Single battery: Charging from 0% to 100% takes approximately 58 minutes

High-Capacity Flight Battery

Drone-compatible battery	BDEmax-4345-7.16
Capacity	4345mAh
Weight	<108.6g max
Nominal Voltage	7.16v
Charging Limit Voltage	8.6V
Battery Type	Li-ion 2S
Energy	31.11Wh
Charging Environment Temperature	5~45℃ (charging will stop if the cell temperature exceeds 55℃ during the charging process)
Charging Time	Ambient temperature 25° C
	Charge using the Antigravity 65W GaN Fast Charger via the Antigravity A1 Charging Hub

	Single battery: Charging from 0% to 100% takes approximately 60 minutes
	Three batteries: Charging from 0% to 100% takes approximately 3 hours
	Charge through the aircraft using the Antigravity 65W GaN Fast Charger
	Single battery: Charging from 0% to 100% takes approximately 103 minutes

Antigravity Vision Battery

Model	DGS-4500-7.3
Weight	Max 175g
Longest Battery Life	≈2H
	(Ambient temperature 25° C, typical operating condition of Vision Goggles ~11W, battery life up to 2H.)
Nominal Voltage	7.3V
Rated Capacity	4500mAh
Rated Energy	32.85Wh
Charging Interface / Charging Power	USB-C（5V3A;9V3A;12V2A）
Charging Duration	＜2.5H
Charging Environment Temperature	3° C to 45° C (battery charging will stop at 55° C)

Antigravity Grip

Model	SRCSE001
Weight	Approximately 115g
Size	Length 143mm, Width 45mm, Height 72.5mm

Operating temperature	-10° C to 40° C

GFSK

Operating Frequency Band	2.4000-2.4835 GHz
Transmit Power (EIRP)	＜10dBm
Data Transmission Distance	＜10m (The above data was measured in an outdoor open and interference-free environment, representing the maximum communication distance between the remote controller and the flight goggles under typical operating conditions. For reference only. Please keep the remote controller close to the flight goggles when in use.)

Battery

Input Power	Max 5V/2A
Charging Interface	USB-C(5V/2A)
Charging Duration	＜2.5H (charging at ambient temperature of 25℃)
Cell Capacity	2300mah
Nominal Voltage	3.6V
Energy	8.28WH
Charging Environment Temperature	5° C to 45° C (charging will stop if the temperature exceeds 55° C during the charging process)