



DJI FlyCart 30

Specs

Aircraft

Weight	42.5 kg (without battery) 65 kg (with two DB2000 batteries)
Max Takeoff Weight	95 kg (with cargo at sea level)
Max Diagonal Wheelbase	2200 mm
Dimensions	1590 x 1900 x 947 mm (LxWxH) (arms unfolded, propellers folded) 2800x3085x947 mm (LxWxH) (arms & propellers unfolded) 1115x760x1027 mm (LxWxH) (arms & propellers folded)
Folding Method	Towards body
Loadable Battery Quantity	2
Hovering Endurance (empty weight, with max battery capacity)	29 mins (dual battery mode) 15 mins (single battery mode) <small>*The data was collected in controlled conditions: zero altitude and a windless environment. For reference only.</small>
Hovering Endurance (max weight, with max battery capacity)	18 mins (30 kg weight load, dual battery mode) 8 mins (40 kg weight load, single battery mode) <small>*The data was collected in controlled conditions: zero altitude and a windless environment. For reference only.</small>
Max Flight Distance (empty weight, with max battery capacity)	28 km (dual battery mode) 12 km (single battery mode) <small>*The data was collected in controlled conditions: zero altitude and windless environment, at a constant speed of 15m/s. For reference only.</small>
Max Flight Distance (max weight, with max battery capacity)	16 km (30 kg weight load, dual battery mode) 8 km (40 kg weight load, single battery mode) <small>*The data was collected in controlled conditions: zero altitude and windless environment, at a constant speed of 15 m/s. For reference only.</small>
Max Flight Time (max weight, with max battery capacity)	18 mins (30 kg weight load, dual battery mode) 9 mins (40 kg weight load, single battery mode) <small>*The data was collected in controlled conditions: zero altitude and a windless environment, at a constant speed of 15 m/s. For reference only.</small>
Operating Temperature	-20° to 45° C
Ingress Protection Rating	IP55

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Hovering Accuracy (with strong GNSS signal)

RTK positioning enabled:
±10 cm horizontal, ±10 cm vertical

RTK positioning disabled:
±60 cm horizontal and ±30 cm vertical (radar enabled: ±10 cm)

RTK/GNSS Operating Frequency

RTK: GPS L1/L2, Galileo F1/F2, BeiDou B1I/B2I/B3I, Galileo E1/E5b, QZSS L1/L2
GNSS: GPS L1, BeiDou B1I, Galileo F1, Galileo E1, QZSS L1

Max Pitch Angle

30°

Max Ascent Speed

5 m/s

*The data was collected in controlled conditions: zero altitude and a windless environment, with a 30 kg payload. For reference only.

Max Descent Speed

3 m/s (vertical)
5 m/s (tilted)

*The data was collected in controlled conditions: zero altitude and a windless environment, with a 30 kg payload. For reference only.

Max Horizontal Speed

20 m/s

*The data was collected in controlled conditions: zero altitude and a windless environment, with a 30 kg payload, for reference only.

Max Flight Altitude

6000 m (without payload)

Max Wind Speed Resistance

12 m/s

*The data was collected in controlled conditions: zero altitude and a windless environment, with a 30 kg payload. For reference only.

Propulsion System

Stator Size

100x33 mm

Motor KV Value

48 rpm/V

Max Motor Power

4000 W/rotor

Propellers Material

Carbon fiber composite

Propellers Diameter

54 inch

Propellers Type

Foldable double-blade propellers

Main-rotor Diameter

1375 mm

Rotor Quantity

8

LED Light

Effective Illumination Distance

10 m

Illumination Mode

60 Hz, automatically switch on according to ambient light

DJI O3 Image Transmission

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Model	Pigeon (with DDR)-2T4R
Signal Effective Distance	20 km (FCC) 8 km (CE/SRRC/MIC)
	<small>*Measured with FCC compliance in unobstructed environments with typical interference. Data is for reference only. The actual transmission distance may vary depending on the environment's obstruction and interference conditions. Please pay attention to reminders in the app.</small>
O3 Operating Frequency	2.4000 to 2.4835 GHz 5.725 to 5.850 GHz
	<small>*Some countries or regions do not support the 5.8 GHz frequency band. Please refer to local flight laws and regulations for details.</small>
EIRP	2.400 GHz - 2.4835 GHz: <33 dBm (FCC) <20 dBm (CE/SRRC/MIC)
	5.725 GHz - 5.850 GHz: <33 dBm (FCC) <30 dBm (SRRC) <14 dBm (CE)
Data Security	AES-256
ADS-B	Supported

Forward and Backward Active Phased Array Radar

Model Number	RD241608RF (forward) RD241608RB (backward)
Altitude Detection	Fixed altitude range: 1.5-200 m
Rear Obstacle Avoidance	Sensible distance (rear): 1.5-50 m FOV Forward: 360° horizontal, ±45° vertical, ±45°upward Backward: ±45° horizontal, 360° vertical Operating conditions: Available during takeoff, landing, and ascending when an obstacle is more than 1.5 m away from the aircraft Safe distance: 3.5 m (distance between the propeller tip and obstacle when the aircraft is hovering after braking) Sensing direction: multi-direction

Binocular Vision System

FOV	Horizontal: 90; Vertical: 106°
Work Environment Requirements	Normal lighting with clearly textured surfaces

FPV Camera

Resolution	1920x1440
DFOV	149°
Frame Rate	30fps

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Type	Full HD FPV Single Axis Gimbal Camera
Fill Light	Supported

Cargo Case

Dimension	754x472x385 mm (LxWxH)
Inner Space	573x416x305 mm (LxWxH)
Material	EPP plus aluminum alloy frame
Weighing Feature	Supported
Weight	Approx. 3 kg
Load Capacity	0-40 kg

Parachute

Max Payload	≤ 95 kg
Dimension	300x200x120 mm (LxWxH)
Weight	Approx. 2.1 kg
Automatic Reaction Time	Approx. 1000 ms
Descending Speed	≤ 6 m/s (at sea level, no wind)
Parachute Shape	Square
Material	Nylon
Surface Area	Approx. 22 m ²
Minimum Opening Height	60 m
Operating Temperature	-20° to 45° C
Ingress Protection Rating	IP55
Mainboard Power-off Battery Life	≥ 1 hour
Memory Card Capacity	Real-time record for 10 flights
Buzzer Alarm	Supported
Lighting Alarm	Supported
Manually Opening	Supported
Automatic Opening	Supported

Winch System (Optional)

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Model	A2EWI-30A
Dimension	252x195x193 mm (LxWxH)
Body Weight	2.5 kg (without clump and couple)
Clump Weight	1.9 kg
Couple Weight	0.6 kg
Touchdown Release Feature	Supported
Payload Capacity	5-30 kg (dual battery)5-40 kg (single battery)
Cable Length	20 m
Max Retraction Speed	0.8 m/s
Operating Temperature	-20° to 45° C
Ingress Protection Rating	IP55
Weighing Function	Supported
Cut Cable Protection	Supported
Swing Control Feature	Supported
Manual Operation	Supported
Automatic Operation	Supported
Deceleration Protection	Supported

DJI DB2000 Intelligent Battery

Model	DB2000
Capacity	38000 mAH
Nominal Voltage	52.22 V
Type	14S1P
Energy	1984.4 Wh
Weight	Approx. 11.3 kg
Installation Method	Plug
Dimension	316x152x279 mm (LxWxH)
Operating Temperature	-20° to 45° C
Charging Rate	5 to 15° C: 1.0C15 to 45° C: 2.5C
Max Charging Power	5700 W

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Automatic Heating Feature

Supported (when the battery temperature is below 10° C, pressing and holding the button or turning on the drone will activate the self-heating function. When the battery temperature is below 20° C, connecting the charger to the battery will activate the self-heating function. Charging and discharging in a low-temperature environment may reduce the battery's lifespan)

DJI C8000 Intelligent Charger

Model	CHX101-7000
Input	90-264 V AC
Output	42-59.92 V DC
Max Output Power	7200 W (Dual input)3600 W (Single input)
Output Channel Quantity	2
Protection Feature	The feature is designed to respond to issues including overheating, overvoltage, undervoltage, short circuits, fan stalls, etc.
Operating Temperature	-20° to 45° C
Charging Security	Connector protection feature available

Remote Controller

Type	DJI RC Plus
APP	DJI Pilot 2
Operating Frequency	2.400-2.483 GHz 5.725-5.850 GHz
EIRP	2.400-2.4835 GHz: <33 dBm (FCC) <20 dBm (CE/SRRC/MIC)
	5.725-5.850 GHz: <33 dBm (FCC) <23 dBm (SRRC) <14 dBm (CE)
Operating Temperature	-20° to 50° C
Charging Environment Temperature	5° to 40° C
Built-in Battery Life	3.3 hours
External Battery	2.7 hours
Charging Method	Use a USB-C fast charging charger with a maximum power of no less than 65 W (maximum voltage of 20 V). A DJI portable charger is recommended.
Charging Time	2 hours with built-in battery, 2.5 hours with built-in and external battery (shutdown status according to official charging method)

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Ingress Protection Rating	IP54
Video Output Interface	HDMI
Wi-Fi Protocol	Wi-Fi 6
Wi-Fi Working Frequency	2.4000-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz
Bluetooth Protocol	Bluetooth 5.1
Bluetooth Working Frequency	2.4000 - 2.4835 GHz
EIRP	<10 dBm
GNSS	GPS+Galileo+BeiDou
Screen	7.02 inch touch LCD display screen, resolution 1920*1200, brightness 1200 nits
Dual Operator Mode	Supported

Others

Guaranteed software updates until	2026/12/31
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