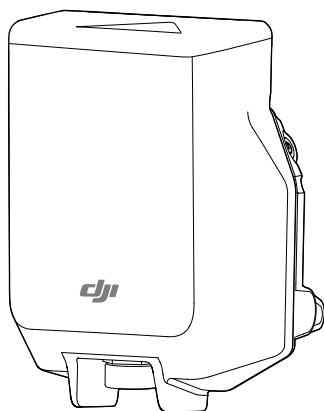


dji AP100 PARACHUTE

User Manual

v1.0 2026.07





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In the event of divergence among different versions, the English version shall prevail.

Searching for Keywords

Search for keywords such as “battery” and “install” to find a topic. If you are using Adobe Acrobat Reader to read this document, press Ctrl+F on Windows or Command+F on Mac to begin a search.

Navigating to a Topic

View a complete list of topics in the table of contents. Click on a topic to navigate to that section.

Printing this Document

This document supports high resolution printing.

Using This Manual

- ⚠ • This product does not meet the standard operating temperature for military grade application (-55° to 125° C/-67° to 257° F), which is required to endure greater environmental variability. Operate the product appropriately and only for applications that meet the operating temperature range requirements of that grade.

Legend

⚠ Important

💡 Hints and Tips

📖 Reference

Read Before Use

Watch all the tutorial videos first, then read the documentation included in the package and this user manual.

If you have any questions or issues during installation and use of this product, contact DJI Support or an authorized dealer.

Video Tutorials

Go to the address below or scan the QR code to watch the tutorial videos, which demonstrate how to use the product safely:



<https://enterprise.dji.com/ap100-parachute/video>

Download DJI Assistant 2

Download and install DJI ASSISTANT™ 2 (Enterprise Series) using the link below:

<https://www.dji.com/downloads/softwares/assistant-dji-2-for-matrice>

Contents

Using This Manual	3
Legend	3
Read Before Use	3
Video Tutorials	3
Download DJI Assistant 2	3
1 Disclaimer	5
2 Overview	6
3 First Use	7
3.1 Installation	7
3.2 Activation	9
4 Using the Parachute	10
4.1 Pre-Flight Checklist	10
4.2 Deploying the Parachute	11
4.3 Post-Deployment Procedures	13
5 Maintenance	15
5.1 Regular Inspection	15
5.2 Firmware Update	15
6 After-Sales Service	17
6.1 Warranty Policy	17
6.2 Flight Accident Handling Procedures	17
Flyaway Accident	17
Collision or Crash Accident	17
6.3 Shipping the Product for Repair	18
7 Appendix	19
7.1 Specifications	19
7.2 Frequently Asked Questions	19
7.3 Drift Distance	19

1 Disclaimer

The parachute is designed as a supplementary safety device, intended solely for deployment in emergency situations where the aircraft experiences power failure, flight control malfunction, or exceeds a safe operating area. The purpose is to attempt to reduce the aircraft's descent speed, thereby seeking to reduce potential damage to the aircraft, payload, and ground personnel and property.

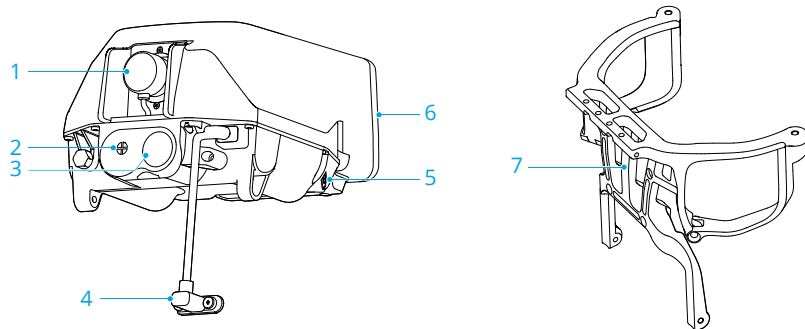
The actual effectiveness of this product may vary significantly depending on numerous factors, including but not limited to flight altitude, descent speed, aircraft attitude, payload weight, environmental conditions (e.g., wind speed and direction), deployment timing, and method of use. This product does not replace and is not a substitute for proper flight safety management practices.

The included gimbal safety tether is provided exclusively to reduce the risk of accidental payload detachment during parachute deployment. Neither this product nor the gimbal safety tether constitutes a guarantee of any specific outcome, including but not limited to zero injury or zero loss.

Users must strictly follow the requirements set out in this user manual or other official guidelines to correctly install, configure, use, and maintain this product. DJI assumes no liability for any loss resulting from improper use, unauthorized disassembly, modification, repair, or non-compliant operation.

-
-  • As a critical safety component, it is recommended that you perform the necessary inspections before each flight and periodically evaluate its condition. If this product has experienced severe impact, water exposure, or any other event that may affect its performance, it is recommended that you have it repaired or replaced promptly to ensure continued reliability.
-

2 Overview

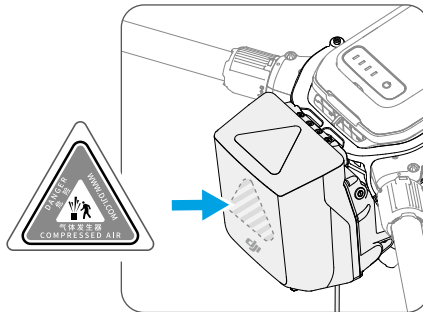


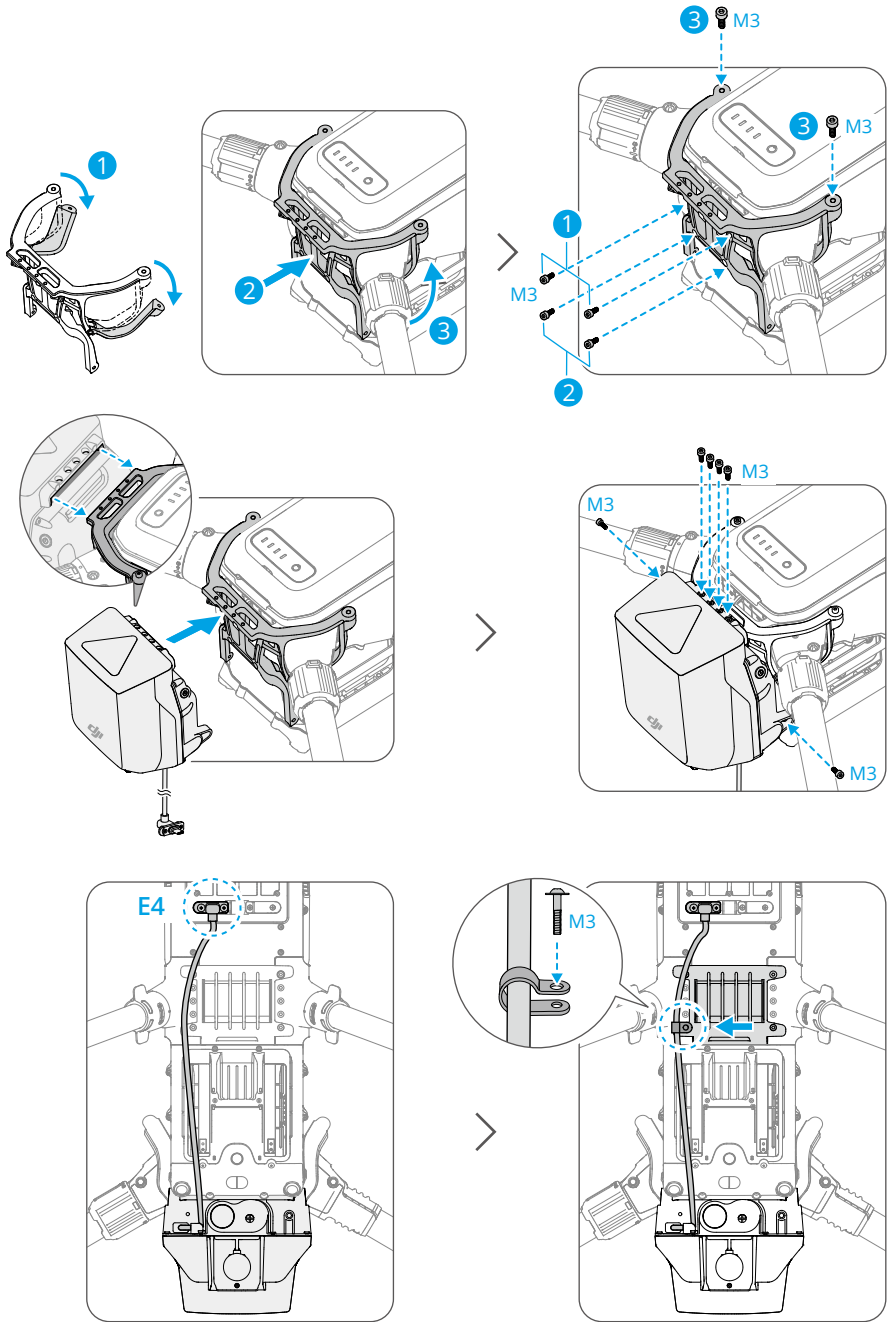
- | | |
|----------------------------------|---------------------|
| 1. Gas Generator (non-removable) | 5. Stop Button |
| 2. Buzzer | 6. Parachute Body |
| 3. Flashing Light | 7. Mounting Bracket |
| 4. E-Port V2 Cable | |

3 First Use

3.1 Installation

- ⚠ • Make sure to power off DJI Matrice 400 before attaching or removing the parachute. Tighten the screws to ensure secure installation.
- Before using the parachute, watch the [tutorial videos](#) and secure the corresponding gimbal safety tether to the gimbal bracket as instructed. If the gimbal safety tether is not secured correctly, the payload may loosen or detach, and operational accuracy or image quality may be reduced during parachute deployment. The gimbal safety tether is not compatible with third-party payloads or brackets.
- The mounting bracket is a mechanical component. Minor surface wear on the bracket during installation, removal, or rotation is normal.
- The parachute E-Port V2 cable must only be connected to the E4 port on the aircraft. Route the cable properly before securing the cable clamp to avoid obstructing the aircraft's vision and sensing systems. Leave adequate slack in the cable near the E4 port to prevent poor contact caused by cable tension.
- The parachute has a built-in gas generator. Before use, attach the safety warning sticker as shown.





3.2 Activation

A new parachute must be activated through the DJI Pilot 2 app. Make sure the parachute is installed on the aircraft, then power on the remote controller and the aircraft separately, and follow the on-screen instructions on the remote controller. An internet connection is required for activation.



- Before activation, make sure the remote controller and aircraft firmware are updated to the latest versions. After the update, check the app interface and confirm that the parachute-related features are displayed properly.
-

4 Using the Parachute

- 
- DO NOT disassemble the gas generator, connection cable, or other components.
 - Keep the product away from fire or high-temperature environments and store it in a cool, shaded place.

4.1 Pre-Flight Checklist

1. Make sure that the parachute exterior is intact, with no signs of moisture or water ingress.
2. Make sure that the parachute and its bracket are securely installed, all mounting screws are tightened, and the connection cable does not obstruct the aircraft's vision and sensing systems.
3. Make sure that the gimbal safety tether is secured correctly as instructed, the hook-and-loop fastener is firmly attached, and the tether is not damaged, detached, tangled, or taut.
4. Refer to the *DJI Matrice 400 User Manual* to complete the pre-flight inspection.
5. Power on the remote controller and the aircraft separately. The parachute will connect automatically. If the app prompts a firmware upgrade, complete the firmware upgrade before proceeding.
6. Make sure that there are no warning prompts before takeoff.

- 
- The maximum payload of the aircraft varies depending on the flight altitude and battery level. The table below shows the maximum payload measured at different flight altitudes during low-battery return-to-home. Confirm that the current operating altitude and payload meet the following requirements before takeoff:

Flight Altitude (m)	1000	2000	3000	4000	4500
Maximum Payload Without Parachute (kg)	6	5	4.3	3.5	3
Maximum Payload With Parachute Installed (kg)	5	4	3.3	2.5	2

- To ensure unobstructed parachute deployment and prevent false obstacle sensing triggers, DJI Matrice 400 will automatically disable its downward and backward mmWave radars once DJI AP100 Parachute is installed. Consequently, the aircraft's ability to sense small obstacles in these directions will be limited. Pay attention to the flight environment and manually avoid obstacles to ensure flight safety. The mmWave radar function may be unavailable or restricted

in some countries or regions. Refer to local laws and regulations for more information.

- Before operations, estimate the [Drift Distance](#) based on local wind speed, flight altitude, flight speed, and aircraft payload to ensure there are no personnel or obstacles in the landing area.

4.2 Deploying the Parachute

The minimum effective deployment altitude of DJI AP100 Parachute is 30 m* (the minimum vertical altitude required for the parachute to stabilize the aircraft's descent below 5 m/s). If the deployment altitude is below 30 m, the parachute may not fully inflate to adequately slow the descent. The parachute will not deploy if the aircraft has not taken off.

- * Measured in a windless environment at 25° C (77° F), at an altitude between 30 m and 500 m, with DJI Matrice 400 taking off at the max takeoff weight of 15.8 kg. Data is for reference only. Actual experience may vary depending on the environment, usage, and firmware version.

Automatic Deployment

- The parachute will deploy automatically when an abnormal attitude or velocity is detected.
- This parachute supports the Flight Termination System (FTS) in certain regions. The FTS can be used together with the Geocaging feature. Users can draw a geocage in the DJI Pilot 2 app. If the aircraft flies outside the boundary of the contingency volume, the FTS will be activated, the aircraft motors will stop, and the parachute will deploy.



- To mitigate the risk of damage to nearby equipment or property caused by close-range deployment, the automatic deployment will be disabled under either of the following conditions:

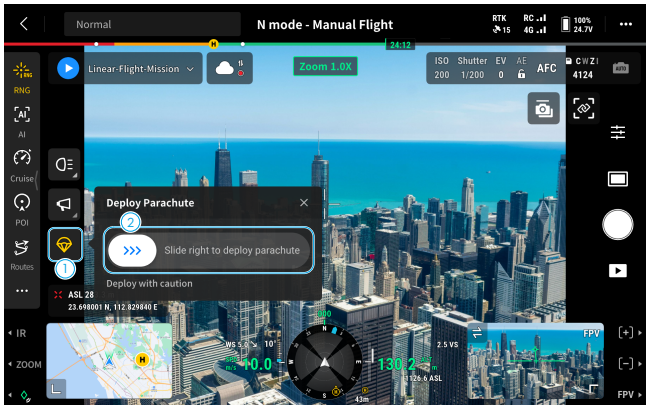
1. The aircraft is within a 10 m radius of the Home Point, and its relative altitude is within 15 m above or below the Home Point.
2. With Cleaning Mode enabled, the aircraft is within a 10 m radius of the Home Point, and its relative altitude is within 15 m above the Home Point.



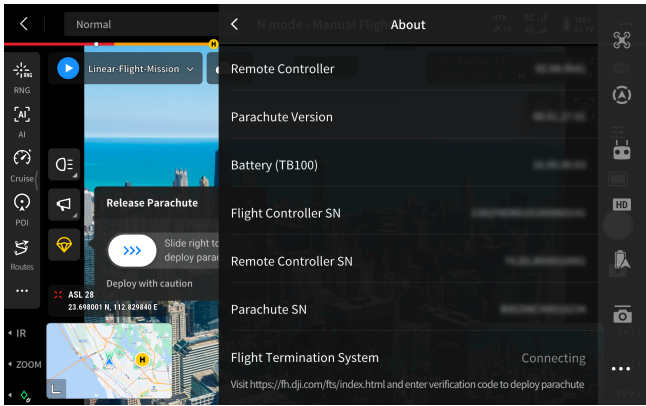
- Refer to [Frequently Asked Questions](#) for the list of countries and regions that support the FTS feature.
- When setting up the geocage, refer to the operating area and the [Drift Distance](#) after parachute deployment to plan the zone boundary appropriately. For detailed instructions on geocage settings, refer to the Geocaging section in the *DJI Matrice 400 User Manual*.

Manual Deployment

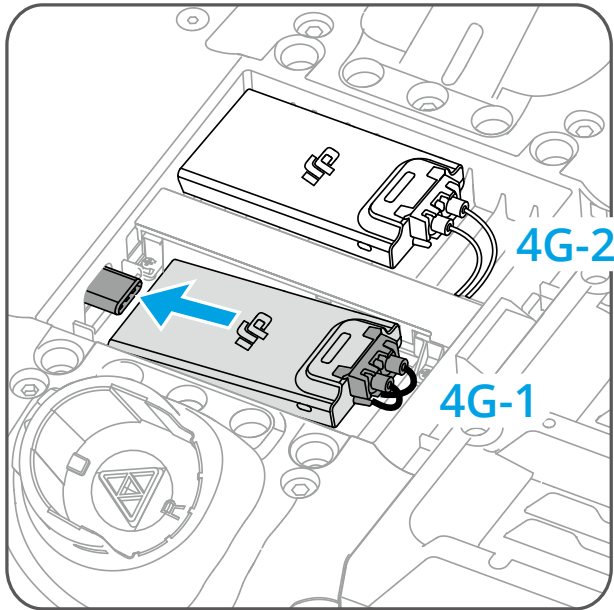
- In an emergency, users can tap the parachute icon on the DJI Pilot 2 camera view and swipe right to deploy the parachute.



- In regions that support FTS, users can trigger the FTS via a web interface. Before use, install the DJI Cellular Dongle 2 on the aircraft and connect to a 4G network. The remote controller also needs to have the module installed or be connected to Wi-Fi. After installation, go to the camera view in DJI Pilot 2, tap **...** > **About**, and view the aircraft SN and verification code. Visit <https://fh.dji.com/fts/index.html>, then enter the SN and verification code to trigger the FTS and deploy the parachute.



- ☀️ • Refer to the Using Enhanced Transmission section in the *DJI Matrice 400 User Manual* for the installation steps of the DJI Cellular Dongle 2. It is recommended to install the cellular dongle first, and then install the parachute E-Port V2 cable clamp. If only one dongle is installed on the aircraft, make sure to insert it into the 4G-1 slot.



- When the FTS service loses connection to the server, a warning will appear in the software interface. During the disconnection period, the device will automatically attempt to reconnect. Check the network status promptly to ensure the network connection is restored.

Before the parachute deploys, the aircraft motors will stop. After deployment, the aircraft will continuously emit an alarm sound and high-intensity flashing light. The audio and visual alarm can last for approximately 1 hour. After the aircraft lands, the flashing light switches to a slow flash. Refer to [Post-Deployment Procedures](#) to locate the aircraft and parachute.

4.3 Post-Deployment Procedures

After the parachute deploys normally, follow the steps below to retrieve the aircraft and parachute.

1. Check the aircraft icon on the app map and estimate the [Drift Distance](#) based on the flight altitude, then proceed to the approximate landing area.
2. Retrieve the aircraft based on the buzzer sound and flashing light emitted by the parachute.

3. Press and hold the stop button on the parachute to turn off the buzzer sound and flashing light.
4. Gather the parachute and fold the canopy.
5. Make sure that no components are left behind at the site.

-
-  • A deployed parachute cannot be reused. Contact DJI Support to send the aircraft and parachute back for inspection and servicing. DO NOT continue using the aircraft until the inspection is complete.
- If the aircraft cannot be located, or if a collision or crash has occurred, refer to [Flight Accident Handling Procedures](#).
-

5 Maintenance

5.1 Regular Inspection

The parachute is a single-use safety device that must be completely replaced after deployment. Additionally, for system effectiveness and flight safety, it is recommended to retire and replace the product 3 years after activation, regardless of normal daily self-check results.

If the parachute has never been deployed, perform the following inspections every 3 to 6 months:

1. Make sure that the parachute exterior shows no signs of damage, dirt, moisture, or water ingress.
2. Make sure that the parachute connection cable is undamaged and does not obstruct the aircraft's vision and sensing systems, the aircraft port shows no corrosion, and the port screws are securely fastened.
3. Make sure that the bracket screws show no corrosion or damage, and that the parachute is securely mounted with no looseness.
4. Make sure that the gimbal safety tether is secured correctly as instructed, the hook-and-loop fastener is firmly attached, and the tether is not damaged, detached, broken, hardened, tangled, taut, or attached to any foreign objects.

5.2 Firmware Update

The aircraft firmware includes the parachute firmware. After the parachute is installed on the aircraft, its firmware can be updated together with the aircraft firmware. Before updating, make sure the parachute is connected to the aircraft, and that the device has sufficient battery power. The update methods are as follows:

- Run the DJI Pilot 2 app:
 - If the aircraft is already using the latest firmware, tap **All modules need to be updated** on the home screen to perform a consistent firmware update for the accessory.
 - If the aircraft is not using the latest firmware, tap the firmware update prompt on the home screen, select the devices to be updated, and update all devices at once.
- Run DJI Assistant 2:
 1. Connect the aircraft to the computer.
 2. Make sure the computer is connected to the internet, and the DJI device is powered on.

3. Launch DJI Assistant 2 and log in with a DJI account.
4. Click the firmware update button on the left side of the main interface.
5. Select the firmware version and click to update. The firmware will be downloaded and updated automatically.
6. After the update is complete, the DJI device will restart automatically. When the update successful prompt appears, the device update is complete.



- Make sure that the device has sufficient power before updating the firmware.
 - DO NOT remove accessories or turn off the device during the update process.
 - It is normal that the gimbal goes limp, aircraft status indicators blink, and the aircraft reboots. Wait patiently until the update is complete.
 - Make sure to keep the aircraft away from people and animals during a firmware update, system calibration, or parameter configuration.
 - For safety, make sure you are using the latest firmware version.
 - After the firmware update is completed, the remote controller and the aircraft may become disconnected. Reconnect the devices if necessary.
-

6 After-Sales Service

6.1 Warranty Policy

The warranty period may vary according to local laws and regulations.

Visit <https://www.dji.com/service/policy> to view the product warranty period and warranty policy.

6.2 Flight Accident Handling Procedures

When your aircraft encounters a flight accident, follow the steps below.

Flyaway Accident

1. Contact official support as soon as possible, describe the flyaway accident, and explain whether the parachute deployed and the site status.
2. View the flight record in DJI Pilot 2 and look for the aircraft and parachute based on the actual terrain and the alarm sound and flashing light from the parachute.
3. Connect the remote controller to the computer, export the flight control system data and flight records, and contact official support or local dealers for assistance in applying for data analysis.
4. A solution will be provided based on the analysis results.

Collision or Crash Accident

1. Take photos of the aircraft and parachute status as soon as possible after the accident, and record the aircraft status before the accident and the accident process. If the parachute has deployed or partially deployed, do not reset, disassemble, clean, or continue using it, so as not to affect subsequent inspection and accident analysis.
2. Make sure the aircraft is powered off, remove the battery from the aircraft, and use an isolation box to store the battery. DO NOT power on the aircraft again if the accident is serious. Otherwise, it may damage the internal circuit of the aircraft and cause greater loss.
3. Connect the remote controller to the computer, export the flight control system data and flight records, and contact official support or local dealers for assistance in applying for data analysis.
4. Ship the aircraft and parachute together for repair.

6.3 Shipping the Product for Repair

Choose one of the methods below to ship the product for repair:

1. Official Website Self-Service Repair

Visit the DJI Service Center on the official website at <https://repair.dji.com/repair/index>, and follow the instructions to complete the self-service repair service.

2. Contact Local Dealer for Assistance

Contact your local dealer and describe the product issue. The dealer can assist in sending the product for repair.

3. Official Support Hotline Service

Contact official support to describe the product issue and service type, such as a repair, return, or replacement, and then ship the product back according to the guidelines.

Visit the following website to view phone support options for the hotline service:
<https://www.dji.com/support>

7 Appendix

7.1 Specifications

Visit the following website for specifications:

<https://enterprise.dji.com/ap100-parachute/specs>

7.2 Frequently Asked Questions

Visit the following link for frequently asked questions and solutions:

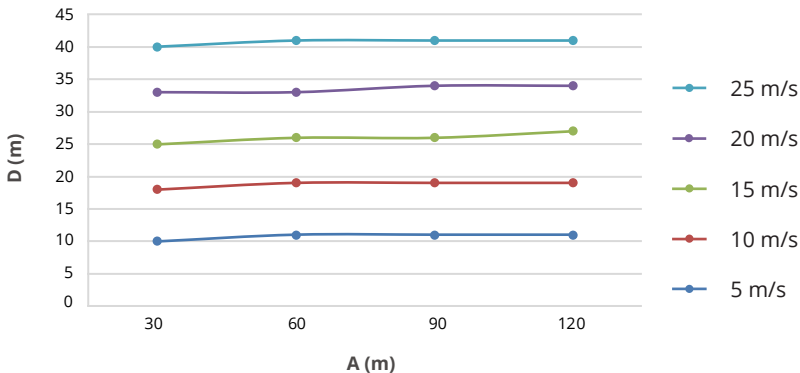
<https://enterprise.dji.com/ap100-parachute/faq>

7.3 Drift Distance

Drift distance refers to the horizontal distance between the point where the parachute deploys and the final landing point of the aircraft. The actual drift distance is affected by multiple factors. Before operations, estimate the drift distance based on the local wind speed, flight altitude, flight speed, and aircraft payload to ensure that there are no personnel or obstacles in the landing area.

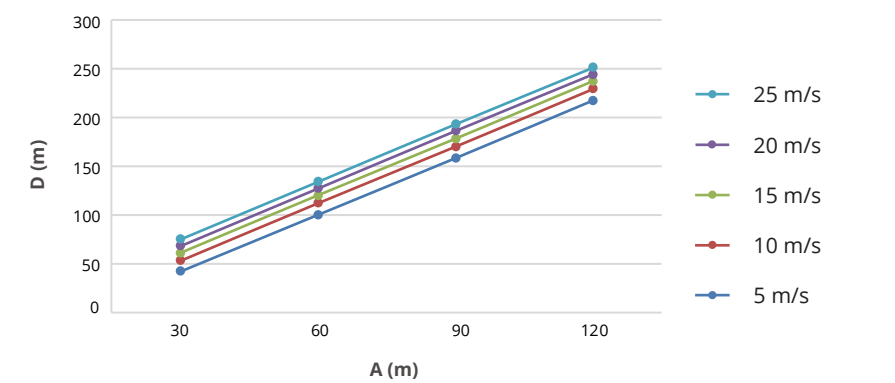
The following shows the drift distance (D, in meters) after parachute deployment when the aircraft is not carrying a payload, at different wind speeds (in m/s), altitudes above ground level (A, in meters), and flight speeds (in m/s).

No Wind



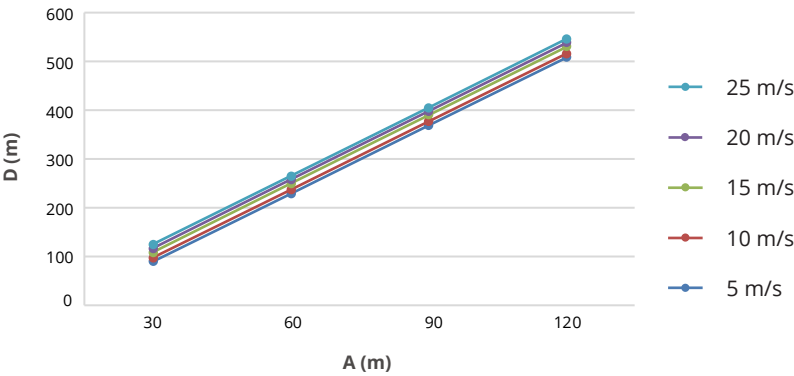
Altitude (m)	Flight Speed (m/s)				
	5	10	15	20	25
30	10	18	25	33	40
60	11	19	26	33	41
90	11	19	26	34	41
120	11	19	27	34	41

Wind Speed 5 m/s



Altitude (m)	Flight Speed (m/s)				
	5	10	15	20	25
30	42	53	61	68	75
60	100	112	120	127	134
90	158	170	178	186	193
120	217	229	237	244	251

Wind Speed 12 m/s



Altitude (m)	Flight Speed (m/s)				
	5	10	15	20	25
30	90	98	109	117	125
60	229	237	250	258	265
90	369	377	390	398	405
120	508	516	530	538	546

- 
- The aircraft debris radius after ground impact is about 3.21 meters.

WE ARE HERE FOR YOU



Contact
DJI Support

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Download the latest version from



<https://www.dji.com/downloads/products/ap100-parachute#doc>

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