

CONTENTS	DISCLAIMER AND SAFETY GUIDELINES	8. This drone does not come with a GPS module. Please fly the drone within the control range and always keep an eye on the flying.	MAINTENANCE AND CARE
	1. DO NOT look directly into the drone light.		1. Thoroughly check the drone after a crash or violent impact.
DISCLAIMER AND SAFETY GUIDELINES 01		GPR	2. Do not charge battery if it is hot. Let it cool down first.
PRODUCT OVERVIEW 04 FLIGHT PREPARATION 05	2. DO NOT treat the product as household waste.	9. This product is not intended for professional aerial drone photography.	3. Remove the batteries from both the drone and the remote if they will not be used for a long time.
FLIGHT OPERATION GUIDE 08			4. Unplug the charger once the battery is fully charged.
Remote Operation Guide 09 1. Pair the Remote with the Drone 09 2. Flight Calibration 10	3. DO NOT fly above or near obstacles, crowds, open water, public road, high voltage power lines or trees.	10. Be sure to observe all local regulations, obtain appropriate authorizations and understand risks. Please note it is solely your responsibility to comply with all flight regulations.	5. Store the drone and remote in a cool, dry place away from direct sunlight.
3. Flight Instructions 10 Take-off 10			6. Avoid direct contact of the camera with water or other liquids. Wipe dry with a soft absorbent cloth if it gets wet.
Landing 12 Flight Directions 12 Speed Switch 14 Headless Mode 14	 4. DO NOT use the drone in severe weather conditions. These include wind, snow, rain, smog, hail, lightning, tornadoes or hurricanes. Solution 5. Stay away from the rotating propellers and motors to avoid some tiny objects (e.g. hair) to get into them. 	DYNALOG accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product. The user shall observe safe and lawful practices including, but not limited to, those set forth in these Safety Guidelines. DYNALOG reserves the right to update this user manual.	7. Do not charge the battery next to inflammable materials, such as carpet, wood floors or countertops etc., or on surfaces that are electrically conductive. Do not leave the battery unattended while charging.
360°Flip			 To extend the battery's lifespan, recharge it at least once every three months if not using it for long periods of time.
High-Speed Rotation 16 Circle Fly 17			9. Please use the original battery provided. Use an incorrect type of battery may lead to fire hazards.
Altitude Hold/Hover 18 Emergency Stop 18	6. This product is not a toy and not recommended for users under age 14.		10. Do not dispose of the battery in fire or a hot oven, cut or mechanically crush the battery, as this may cause explosions.
App Operation Guide 19			11. Do not leave the battery in an extremely high-temperature environment that can result in an explosion or the leakage of flammable liquid or gas.
2. Link the App with the Drone 20 3. Function Over view of the App 22	7. Please maintain line-of-sight of your drone at all times after it is powered up. Do not rely on the camera image to control your drone.		12. Do not expose the battery to the extremely low air pressure, as this may result in an explosion or the leakage of flammable liquid or gas.

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Option 2:

take off.

5. Install the remote batteries.

4. Install the battery into the drone after it's fully charged.

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* The drone/remote will be off automatically if you do not operate it about 6mins after powering on the drone/remote. Press and hold the **ON/OFF** button again to turn off the drone/remote.

2. Flight Calibration

Move both control sticks to lower right at 45°; you'll hear a beep from the remote. Calibration is completed when the LEDs of the drone turn to solid on from flashing.



A Note: Please calibrate the drone after a crash or impact.

3. Flight Instructions

Take-off Option 1:

Speed Switch

The drone is set to low speed by default.

three beeps from the remote.

Press the speed button once for Medium speed and there are two

beeps from the remote. Press it again for **High** speed and there are



f the drone drifts

ftward or rightward

vhen hovering, press

he Rightward Trim

Trim button to adjust.

outton or the Leftward

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Simultaneously push the Left Control Stick to lower left at 45° and

the ${\bf Right}\ {\bf Control}\ {\bf Stick}$ to lower right at 45° until the four propellers

slowly push the Left Control Stick for





Standard Mode Headless Mode Press the same button to exit this mode; LEDs on the drone turn to solid on.

360° Flip

Fly the drone to a height over 2m, then press the SPFUP button to activate 360° Flip function. Next, move the Right Control Stick to flip the drone accordingly.

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- 1 Loosen the screws, then remove the propellers.
- 2 Fit the spare propellers into the drone according to the mark (A/B) on them, then tighten the screws.

Note:

Please do not overtighten the screws. Gently rotate the propellers by hand after installation to check if they are rotatable; If not, please loosen the screw and check again.

FLIGHT OPERATION GUIDE

IMPORTANT

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Landing

Option 1:

Option 2:

the propellers stop rotating.

- * Make sure you power on the drone first, then the remote in each flight. * Please calibrate the drone after a crash or impact. * For all flight functions and modes, the operator and tail of the drone
- must be aligned. * We recommend flying in the open air and within the control range for
- beginners.





Remote Operation Guide

Press and hold the ON/OFF button till the drone's LEDs start flashing to turn on the drone. Then place the drone on a flat surface with the

Press and hold the ON/OFF button to turn on the remote; you will

The drone will be paired with the remote after 2 seconds.

1. Pair the Remote with the Drone

Step 1:

Step 2:

hear a beep from the remote .

head forward.



Pull the Right Control

Pull the Left Control Stick leftward and the drone will rotate to the







Press the 区 button to make the drone rotate at high speed. Press the button again or move the Right Control Stick to any direction to exit this mode. 16 → EN





Press and hold the speed button, then the drone will stop in the air and fall.

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DR-DF100B-B****** or DR-DF100B-W****** 🚺 Note:



2. Link the App with the Drone

Step 1:

Press and hold the ON/OFF button till the drone's LEDs start flashing to turn on the drone. Then place the drone on a flat surface with the head forward.

Step 2:

Go to the Wifi settings of your mobile device and connect to the drone's Wifi(please refer to the"Name of Drone's WiFi" mentioned above).

Tip:

The drone's Wifi has no Internet access. To prevent your mobile device from automatically switching to cellular data, it's recommended that you turn off cellular data when connecting to the drone's Wifi.

Step 3:

Open **Dynalog Casper** App and tap **Start** to enter the App. Tap 🙉 to turn on the App, and the LEDs on the drone turn to solid on at a successful connection.



Step 4: Tap 💿 to calibrate the drone.

A Notes: * If the drone's Wifi is not listed or the App doesn't show the preview image, please restart the drone and search the Wifi of the

drone again. * Make sure the drone's Wifi is only connected to one device.

- * Please allow the App **Dynalog Casper** to access the necessary permissions of your mobile device.
- * Tap 💼 to check the recorded videos and captures photos.

3. Function Overview of the App 123 4567 1 • • 10 A 4 A -B --6 0 -0 --G 12 8 9 **Ú Ú** Trim clockwise/anticlockwise 1 Back 2 VR Mode 9 Emergency Stop 10 Trim leftward/rightward 3 Trajectory Flight 1 Trim forward/backward 4 Calibrate **5** Virtual Remote ON/OFF 12 Turn Left/Turn Right/ Ascend/Descend 6 Drone Battery Status 🕜 Wifi Signal IB Forward/Backward/ Leftward/Rightward A Speed Switch € Gestures for Photo/Video Photo **B** 360° Flip C Headless Mode **G** Video

🕒 Voice Control

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WR Mode: VR device (not included) is required to activate VR Mode.

Trajectory Flight:

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Tap 💽 to activate this mode. Draw a path in the frame on the right side of the screen and the drone will fly following the path. Tap 🔢 to modify flight distance and time accordingly. Tap 😰 again to exit this mode.



💮 Calibrate: Tap 💿 to calibrate the drone directly. If the LEDs of the drone flash quickly after a sudden impact, please tap 💿 to calibrate the drone.

Battery Status: Check the battery status of the drone.

🗖 📖 Wifi Signal: Check the Wifi status of the drone to avoid losing control. When it drops to 2 or 1 bar, please do not fly the drone far away.

Gestures for Photo/Video:

Tap 🛞 to activate this function. Stand in front of the camera at a distance of 1.5~3 meters, face the camera and make a 👸 gesture with

Camera Views:

🗊 : View from the drone's camera 21 View from your mobile device's rear camera

* Make the flight trimming accordingly. * Fly the drone when the weather is good. Q5. The response from the drone to the control is not sensitive.

One Key Take-off/Landing

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SPECIFICATIONS

your right hand to take a photo, a 🖑 gesture to start or stop recording a video.

Photo:

Tap 💿 once to take a photo. Please allow **Dynalog Casper** to access the photos on your phone before taking a photo.

📔 Video:

Tap 🖸 once to start recording, tap again to end and save the video. The interval time between recording and saving a video should be over 3 seconds.

🕑 Voice Control:

Press and hold 🔮 to speak the following voice commands: Take off, landing, forward, backward, left, right. Please allow Dynalog Casper to access the microphone on your phone before speaking the voice command.

STOP Stop:

Tap STOP and a pop-up window will show to confirm if you would like to stop the drone.

💧 Note:

It's NOT recommended to use this function during normal flight for landing, which may result in serious damage for your drone.

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S :View from your mobile device's front camera

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A Note: To fly the drone with the remote and see the image through your mobile device in the App operation mode, tap 🙉 to OFF, then restart the remote and wait for the automatic pairing.

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TROUBLESHOOTING GUIDE

Q1. How to avoid losing my drone?

* Make sure the distance between the drone and the remote/App is effective. * We recommend flying the drone on windless days. If you insist on

flying the drone in the wind, we recommend flying at HIGH speed. * It's essential to calibrate the drone before flying. Q2. Drone LEDs do not light up.

* Ensure that you've turned on the drone.

* Replace or charge the drone battery. * Make sure that you did not press the button 🖗 on the remote to trun off the drone's LED indicators.

Q3. Drone LEDs keep flashing, but the drone never responds to any command from the remote.

* Restart the drone and remote.

* Replace or charge the drone battery. * Make sure the batteries of the remote have enough power.

Q4. The flight is not stable.

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* Return the drone and restart to do a flight calibration as instructed. 25 EN -----

* Make sure the distance between the drone and the remote is effective.

* The remote signal may be interfered, please land the drone and go to another place to fly it.

Q6. Connection between the drone and the App is frequently lost. * Make sure the distance between the drone and the mobile device is effective.

* Make sure your mobile device is not connected to another network.

Q7. The App doesn't respond to voice commands. * Ensure the drone App has access to the microphone function of your mobile device.

Q8. Some of the functions don't work in the App. * Make sure the switch for the App 🎮 is ON.

Q9. The drone will fly beyond the control range. * Activate the Headless Mode, then move the Right Control Stick to fly the drone back.

USB Cable Input 5V ---- 2A Output 5V --- 0.5A 2.5W Rated Power

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna.
 Increase the separation between the equipment and receiver.
 Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

 Consult the dealer or an experienced radio/TV technician for help. For Remote: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled

environment. For R/C QUADCOPTER:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm

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