DYNALOG

14

DR-DG600C

FOLDABLE GPS DRONE

User Manual

Please read this manual carefully before flying and keep it for future reference.

V1.00

Thank you for choosing our product.
If you have any questions, concerns, or need any help,
please contact us at:
support@dynalog.com
or call us via hotline
(441) 998-8788 (ATT: 14:00-22:00, Monday to Friday)

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DISCLAIMER AND SAFETY GUIDELINES

Please read the disclaimer carefully before using the product. By using it you hereby agree to this disclaimer and signify that you have read them fully.

1. Before flying, please make sure to practice with a simulator or seek for the instruction from a professional.

2. DO NOT fly above or near obstacles, crowds, open water, public road, high voltage power lines, trees.



3. DO NOT use the product in severe weather conditions, such as in rainy day or windy day (wind speed is more than 5.5m/s), snow, hail, lightning, tornadoes, hurricanes, etc.



4. DO NOT fly the drone in the magnetic interference area, radio interference area, and government-regulated no-fly zones.

5. The fast rotating motors and propellers can be a potential hazard to cause serious damage and injury. A distance of at least 6m must be maintained from the drone at all times while it is operational. Fly with responsibility.

6. Please maintain the 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.



7. This product is not a toy and not recommended for users under age 14.



8. This product is not intended for professional aerial drone photography use.

9. All parts must be kept out of the reach of children to avoid CHOKE hazard.



10. CAUTION: Dispose of the drone and batteries according to local regulations. DO NOT treat it as household waste.



11. 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.

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, the guidelines in this disclaimer and safety guidelines. DYNALOG reserves the right to update this user manual.

MAINTENANCE AND CARE

1. Thoroughly check the drone after a crash or a violent impact.
2. Clean off your drone with a dry cloth to prevent any moisture from getting into the electronics.
3. Do not try to disassemble or repair the product yourself. Please contact us for more help.
4. Remove the batteries and the drone if will not be used for a long time.
5. Please store and charge the battery in a cool (0~40℃) and dry place away from any flammable materials. Please maintain the environment that can reach room temperature or the leakage of flammable liquid or gas.
6. Please use the original or compatible charger. Use an incorrect type of battery may lead to fire hazards.
7. Do not charge the battery if it is hot. Let it cool down first.
8. ONLY use the original USB cable provided. Do not over charge the battery. Unplug the charger once the battery is fully charged.
9. Do not charge the battery next to inflammables, such as bed, carpet, or flammable gas. Do not charge the battery during construction. Do not leave the battery unattended while charging.
10. Keep the battery away from any sharp objects that could puncture into the battery to avoid risks of explosion and fire.
11. Do not expose of the battery in fire or a hot oven, cut or mechanically crush the battery, as this may cause explosions.
12. Do not drink a red oil, fat with a hammer, or stamp on the battery. Do not alter the battery in other ways.
13. Do not disassemble or alter the outside structure of the battery.
14. Do not expose the battery to the extremely low air pressure, as this may result in an explosion or the leakage of flammable liquid.
15. Do not store the battery for long periods of time when it is in low battery status. To extend the battery's lifespan, recharge it at least once every three months if not using it for long periods of time.
16. Replace the battery if it is swollen.
17. Batteries are only to be charged by adults or by children at least 8 years old under adult supervision.
18. Different types of batteries or new and used batteries are not to be mixed.
19. Exhausted batteries are to be removed from the toy.
20. The supply terminals are not to be short-circuited.
21. Batteries are to be inserted with the correct polarity (+ and -).

PRODUCT OVERVIEW

Drone



Remote



FLIGHT PREPARATION

1. Unfold the front arms, then the rear arms.

2. Charge the battery.

Notes:
- Please check the drone's battery status on our app. When the drone battery gets low, the remote will also beep/vibrate.
- Please use the original battery and USB cable provided.
- It's not recommended to charge the battery from the USB port of a PC.
- Flight time may be reduced when flying in low-temperature environments.

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

4. Insert a memory card (not included) into the drone.

5. Charge the remote.

* You could check the remote's battery status on our app. When the remote battery gets low, the **Remote Power Indicator** will keep flashing, and the remote will keep beeping.

FLIGHT OPERATION GUIDE

6. Unfold the **Handle** and **Antenna**.

7. Unfold the **Phone Clamp** to mount your mobile device. Before mounting, please take off the protective case on your mobile device for a better fit.

8. Replace the propeller when it's needed. (Optional)

* Loosen the screw to remove the propellers.
* Fit the spare propellers into the screw according to the mark (A/B).

Remote

FLIGHT OPERATION GUIDE

IMPORTANT:
- Make sure you power on the drone first, then the remote in each flight.
- Please repeat the pairing procedures each time when the drone or remote is restarted.
- 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 correct range for beginners.

REMOTE OPERATION GUIDE

Pair the Remote with the Drone

Step 1:
Press and hold the **ON/OFF** button to turn on the drone. All the LEDs on the drone start flashing when the drone is powered on. Then place the drone on a flat surface with its head facing forward.



Until it's ready, the drone utilizes the GPS module to locate and make a precise hovering flight. For optimal hovering, we strongly recommend **GPS Mode** for outdoor flights.

Connect to Your Mobile Device

App Downloading and Installation

Download and install the app from your mobile device's App Store("Google Play" or by scanning the QR code below.

App's Name: Dynalog Resta
App's QR Codes:

Name of the Drone's WiFi:
DR-DG600C_4**** and DR-DG600C_5****

Note:
Google Play™ is a trademark of Google Inc., and App Store® is a trademark of Apple Inc.

App Launch

Step 1:
Turn on/dial your data and location service of your mobile device, then open the App, and tap **START** to enter.

Step 2:
Tap the **Live Map** to load the map, then tap to have your location displayed on the center of the live map.

Step 3:
Turn on the drone, then go to the WiFi setting of your mobile device and connect to the device's WiFi.



Notes:
- If the drone's WiFi is not listed in your WiFi list or the App does not show the drone's live image, please restart the drone and remote, then repeat the pairing and calibration procedures.
- Please check if the drone's WiFi is only connected to one mobile device.
- It's recommended that you turn off cellular data when your mobile device connects to the drone's WiFi. Otherwise, the WiFi connection with the drone may be interrupted.

Flight Instructions

Take-off

Option 1
Press the button , and the four rotor blades start rotating, then press the button again to take off.

Option 2
Simultaneously move the **Left Control Stick** to lower left, or 45° and the **Right Control Stick** to lower right or 45° until four rotor blades start rotating, then slowly push the **Left Control Stick** forward to take off.

Landing

Option 1
Press the button , to land the drone.

Option 2
Slowly pull the **Left Control Stick** backward until the propellers stop rotating to land the drone.



Flight Directions

Left Control Stick



Right Control Stick



Photo/Video

Press the button to take a photo.
Press the button to start recording a video. Press it again to stop and save the video. Please check media and memory card.

Speed Switch

The speed of the drone is set as **Low** speed by default.
Push **Left Control Stick** upward to switch to **high** speed, and the remote beeps twice.



Push it leftward to switch back to **Low** speed, and the remote beeps once.

Headless Mode

Press the button to activate **Headless Mode**.
In this mode, the drone will fly following the direction of the **Right Control Stick** regardless of the position of your drone's head or the tail. Press the same button again to cancel this mode.

Return-To-Home(RTH)

The **Return-to-Home(RTH)** function brings the drone back to the last recorded **Home Point** where the drone took off last time. RTH works only when the GPS signal is strong enough and the compass function is working properly.

* During RTH, the remote keeps beeping and its **RTH Indicator** keeps flashing.

GPS/RTH Indicator
Flash: RTH on
Solid on: GPS Mode on
OFF: GPS Mode off

Smart RTH

Press and hold the remote to enable **Smart RTH**.

RTH Distance

The distance between the drone and the last recorded **Home Point** within the drone took off last time.



The preset RTH altitude for the drone is 20 meters.

1. RTH Distance < 20M, Current Flight Altitude < 20M
The drone will ascend to the altitude of 20 meters, then fly back to the Home Point and land.



2. RTH Distance > 20M, Current Flight Altitude > 20M
The drone will directly fly back to Home Point at its current flight altitude and land.



3. RTH Distance < 20M
The drone will directly fly back to Home Point at its current flight altitude and land.

Note:
You could reset the RTH altitude when using the app to control the drone.

Failsafe RTH

Failsafe RTH will be **automatically activated** when the remote disconnects with the drone for more than 6 seconds. The drone will fly back to the last recorded **Home Point** under the control of its flight system.

If the remote reconnects with the drone, you could press the button to cancel RTH and regain control of the drone. If no operation is performed, the drone will continue.

Notes:
- The drone cannot avoid obstacles during the flight path of **Failsafe RTH**.
- If the remote disconnects with the drone for more than 6 seconds, and the GPS function is not available, the drone will slowly descend from the current altitude till landing.

Low Battery RTH

The **Low Battery RTH** will be triggered when the drone battery is low and the RTH Distance is over 15 meters.



RTH will be canceled automatically after the drone flies back to where RTH distance is less than 15 meters. It cannot fly beyond 15 meters anymore no matter how you operate.

The **Critically Low Battery RTH** will be triggered when the drone battery is critically low. The drone will automatically fly back and land on the last recorded Home Point.

Emergency Stop

Press and hold , for 3 seconds, the drone will stop in the air and fall.

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

APP OPERATION GUIDE

Function Overview of the App



WiFi Signal

Check the WiFi signal strength to prevent your mobile device from losing control of the drone. When it shows low signal strength (1~2 bar), please fly the drone back carefully.

Number of Satellites

Check the signal of the GPS satellites.

Flight Records

Check the historical of flight records here.

Photo/Video Switch

Tap to the image-100° .

Flight Mode

Tap to activate VR mode (VR device is not supplied).

Remote Battery Status

Check the battery status of the remote.

Drone Battery Status

Check the battery status of the drone.

Media Gallery

Tap to check the photos and videos saved.

Settings

Tap to start setting up your drone.

You can reset the **Flight Distance**, **Flight Altitude** and **RTH Altitude** as needed.

Beginner Mode
Beginner Mode will preset flight parameters is recommended for beginners.

Flight Distance
Tap to reset the maximum flight distance between the drone and last recorded Home Point.

Flight Altitude
Tap to reset the maximum flight altitude of the drone.

RTH Altitude
Tap to reset the RTH altitude when returning home.

Note:
* RTH Altitude can't be higher than the Flight Altitude.

eVersion

Tap to check the firmware version of your drone.

Take-off

Step 1:
Move the **Left Control Stick** to lower left at 45° and the **Right Control Stick** to lower right at 45° at the same time until the four rotor blades start rotating.

Step 2:
Tap , then slide rightward on the pop-up window to take off.

Point of Interest (POI)

Before flying, please check for the flight prompts on the app to see if the drone is ready to take off.

Step 1:
Tap and enable **Follow Me** based on GPS Mode during flight, enter the **POI** button and tap **Confirm** to start. The drone will fly to around the current point of the drone while keeping that point centered in the frame.

Move the **Left Control Stick** forward or backward to adjust the flight altitude of the drone.

Tap again during the flight to cancel this mode and regain control of the drone.

Note:
* This function can't be activated when the battery of the drone is low.

Follow Me

Step 1:
Tap to enable **Follow Me** based on GPS Mode, then slide rightward on the pop-up window to start. When this function is enabled during flight, the drone will fly follow your mobile device with its camera lens pointing at it.

Tap again during the flight to cancel this mode and regain control of the drone.

Notes:
- The function can't be activated when the battery of the drone is low.
- The drone's compass is disturbed.
- Check if the drone's GPS signal is strong enough.
- Check if the drone is too close to other objects or surrounded by buildings.
- Check if the drone is too far away from you.
- Check if the operator's GPS signal is not enabled correctly.
- Check if the motor is stuck by any small object or if there is a burning smell from the motors. If yes, please remove the small object or contact us directly.
- Check if the wheel of the motor is working well. If not, please contact us directly.

1. Activate this function only when there is no obstacle around you in case of unexpected accidents.
2. This function can't be activated when the battery of the drone is low.

Waypoints

Waypoints function based on GPS Mode allows you to define an exact flying route or a map during the flight.

Step 1:
Tap to start setting waypoints.

Step 2:
Tap to finish your route and tap to name desired waypoints. Then tap the key , to save waypoints if you're satisfied.

Step 3:
Tap to upload waypoints.

Step 4:
Slide rightward on the pop-up window to start.

Tap to enter this mode.

Notes:
* Up to 16 waypoints can be set at a time. It's recommended that you set 6 waypoints or less for better flying experience.
* This function can't be activated when the battery of the drone is low.

Photo/Video

Step 1:
Tap to switch recording, tap to start to and save the video to the media gallery.

Step 2:
Tap to enter **Media Gallery**, select the photos or video preferred and tap to download it to share with your friends.

Gestures for Photo/Video

Tap to activate this function. Within 3m under light-filled circumstances, please make a gesture with your **Right Hand** to the front of the drone, then for starting and ending the video recording.

Smart RTH

Tap to activate **Smart RTH** during the flight and have the drone returned to the last recorded **Home Point**. Slide rightward on the pop-up window to start RTH. Tap **Cancel** to exit this window.

Landing

Tap and slide rightward on the pop-up window to land the drone automatically.

During the path of RTH, tap to cancel RTH and regain control.

TROUBLESHOOTING

Q1. The motors of the drone don't spin.
* Ensure that you've turned on the drone and the remote.
* Ensure that you've turned the drone battery and the remote battery have enough power.
* Ensure that the remote has been paired with the drone successfully.

Q2. The LEDs of the drone flash abnormally.
* Ensure that the drone battery has enough power.
* Try to calibrate the compass.
* Try to calibrate the gyro.

Q3. The drone's propellers start rotating after I unlock the motor, but the drone fails to take off.
* Ensure that the battery has enough power.
* Push the **Left Control Stick** forward to take off after unlocking the motor.
* Ensure that the propellers are properly are installed correctly.
* Check if the rotating speed of each motor is the same. If not, the motor is broken, please contact us directly.

Q4. The drone tilts to one side after taking off.
* Ensure that the propellers are properly are installed correctly.
* Check if the motor is stuck by any small object or if there is a burning smell from the motors. If yes, please remove the small object or contact us directly.
* Check if the wheel of the motor is working well. If not, please contact us directly.

Q5. The drone drifts after taking off.
* Ensure that **GPS Mode** is **ON** and the GPS signal is strong.
* Ensure that the compass is calibrated well.
* Please land the drone and calibrate the compass.

Q1. The drone is unresponsive or insensitive to the control of the remote.
* Ensure that the drone flies within control range.
* Switch the speed of the drone to high speed.
* Ensure that the remote battery has enough power.

Q2. Why can't I see the live image on App?
* Ensure that the drone has enough power.
* Ensure that the mobile device is connected to the drone's WiFi.
* Please go to your mobile device's setting to turn off your cellular data, or disable the function that allows your phone to automatically disconnect to WiFi with no Internet access.
* Ensure that the camera isn't blocked.
* Ensure that you're within the control range.
* Please try to use another phone to connect to the drone's WiFi.

SPECIFICATIONS

Drone	
Operating Temperature	32°F to 104°F(0°C to 40°C)
Transmit Power (EIRP)	**5.8G**: 22.00dBm **2.4G**: 22.00dBm
Remote	
Transmit Power (EIRP)	2.4GHz: 14.00dBm

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.

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.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED/IC Warning

This device complies with Industry Canada license-exempt RSS standards. Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For ISED DJI/RTK:

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

The maximum antenna gain permitted for devices in the band 5725–5850 MHz shall comply with the e.i.r.p. limit specified for point-to-point and non-point-to-point operation, as appropriate.

The maximum antenna gain permitted for devices in the band 5725–5850 MHz shall comply with the e.i.r.p. limit specified for point-to-point and non-point-to-point operation, as appropriate.

High-power radars are allocated as primary users (i.e., priority users) of the bands 5650–5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.