

DR-DG600C
FOLDABLE GPS DRONE

User Manual
Please read these manuals carefully before flying and keep it for future reference.

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DISCLAIMER AND SAFETY GUIDELINES

Please read the disclaimer carefully before using this product. By using it, you hereby agree to these practices and a simulator that you seek read them fully.

- Before flying, please make some practice with a simulator that you seek read them fully.
- DO NOT fly above or near obstacles, crowds, open water, public road, high voltage power lines or trees.
- DO NOT use the drone in severe weather conditions, such as a rainy day or windy day (wind speed is more than 5.5m/s), snow, hail, lightning, tornadoes, hurricanes, etc.
- DO NOT fly the drone in the magnetic interference area, radio interference area, and government regulated no-fly zones.
- The fast rotating motors and propellers are a potential hazard to cause serious damage and injury. A distance of at least 5m must be maintained from the drone at all times while it is operational. Fly with responsibility.

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 (443) 998-8789 (UTC 14:00-22:00, Monday to Friday)

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

10. CAUTION: Dispose of the drone and batteries in accordance with local regulations. DO NOT treat it as household waste.

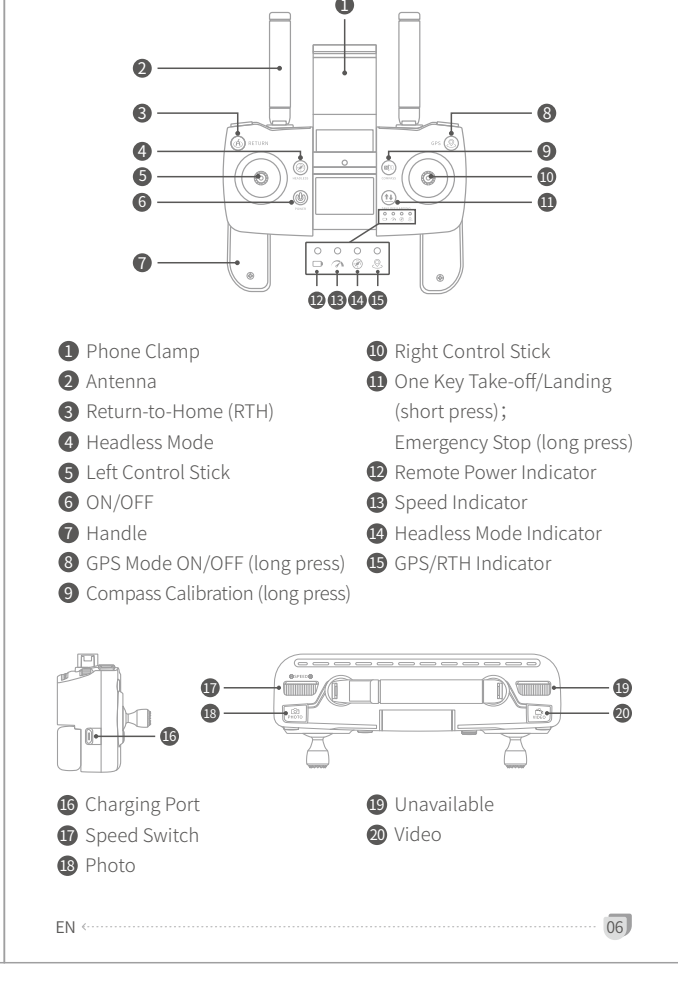
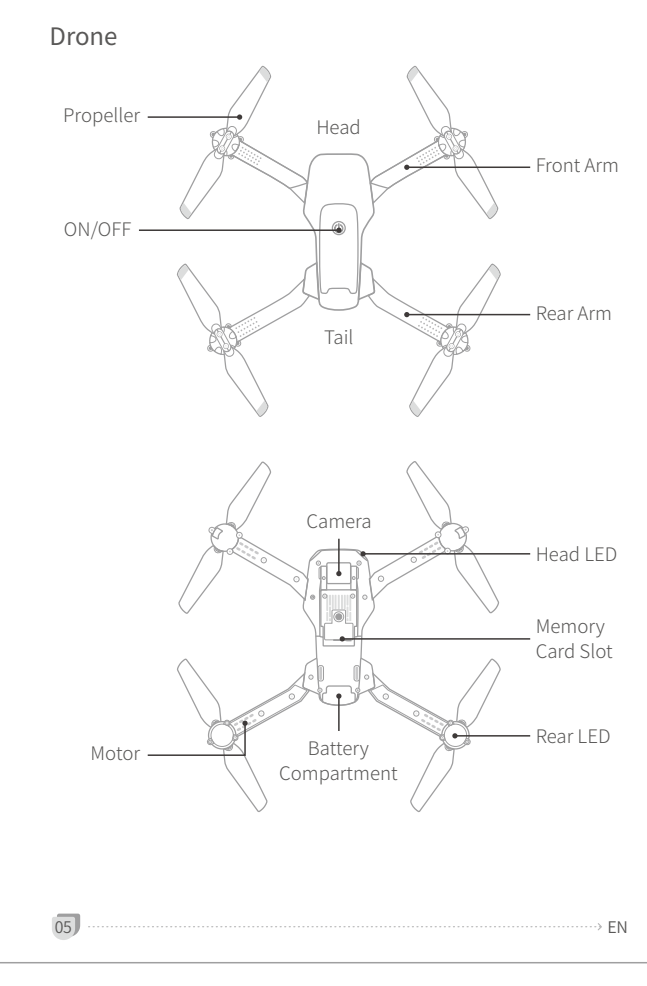
11. Be sure to observe all local regulations, obtain appropriate authorizations and understand risks. Please note it is solely your responsibility to comply with all flight regulations.

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, those set forth in these Disclaimer and Safety Guidelines. DYNALOG reserves the right to update this user manual.

MAINTENANCE AND CARE

- Thoroughly check the drone after a crash or a violent impact.
- Clean off your drone with a dry cloth to prevent any moisture from getting into the electronics.
- Do not try to disassemble or repair the product yourself. Please contact us for more help.
- Remove the battery from the drone if it will not be used for a long time.
- Please store and charge the battery in a cool (0-40°C), and dry place. 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.
- Please use the original battery provided. Use an incorrect type of battery may lead to fire hazards.
- Do not charge the battery if it is hot. Let it cool down first.
- ONLY use the original USB cable provided. Do not over charge the battery. Unplugging the charger once the battery is fully charged.
- Do not charge the battery next to inflammables, such as bed, carpet, wood floor, etc., or on a surface that is electrically conductive. Do not leave the battery unattended while charging.
- Keep the battery away from any sharp objects that could puncture into the battery to avoid risks of explosion and fire.
- Do not dispose of the battery in fire or a hot oven, cut or mechanically crush the battery, as this may cause explosions.
- Do not drive a nail in, hit with a hammer, or stamp on the battery. Do not strike the battery in other ways.
- Do not disassemble or alter the outside structure of the battery.

- Do not expose the battery to the extremely low air pressure, as this may result in an explosion or the leakage of flammable liquid.
- Do not store the battery for long periods of time when it's 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.
- Replace the battery if it's swollen.
- Batteries are only to be charged by adults or by children at least 8 years old under adult supervision.
- Different types of batteries or new and used batteries are not to be mixed.
- The supplied batteries are not to be removed from the toy.
- Exhausted batteries are not to be short-circuited.
- Batteries are to be inserted with the correct polarity (+ and -).



FLIGHT PREPARATION

- Unfold the front arms, then the rear arms.
- Charge the battery.

Notes:

- * You could check the drone's battery status on our app. When the drone battery gets low, the remote will also keep beeping.
- * Please use the original battery and USB cable provided.
- * It is not recommended to charge the battery from the USB port of PC.
- * Flight time may be reduced when flying in low-temperature environments.

- Install the battery into the drone after it's fully charged.
- Insert a memory card (not included) into the drone.
- Charge the remote.

Notes:

- * Support up to 64G.
- * Memory card of FAT32 format is required.
- * 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.

- Unfold the Handle and Antenna.
- Mount the Phone Clamp to mount your mobile device. Before mounting, please take off the protective case on your mobile device for a better fit.
- Replace the propeller when it's needed. (Optional)

Notes:

- * Loosen the screw to remove the propellers.
- * Fit the propellers into the drone according to the mark (A/B) on it.

FLIGHT OPERATION GUIDE

IMPORTANT:

- * Make sure you power on the drone first, then the remote in each flight.
- * Do repeat the pairing procedure each time when the drone or remote is restarted.
- * For all flight functions and modes, the operator and the tail of the drone must be aligned.
- * We recommend flying in the open air and within the control range for beginners.

REMOTE OPERATION GUIDE

Pair the Remote with the Drone

Step 1: Press and hold the ON/OFF button on the back of the drone. All the LEDs on the drone start flashing. For optimal hovering, we strongly recommend the drone on a flat surface with its head facing forward.

Step 2: Press the ON/OFF button to turn on the remote. The Remote Power Indicator keeps flashing when pairing.

Step 3: Wait for the remote to automatically pair with the drone. When pairing is completed, the remote beeps once, and the Remote Power Indicator and the drone's rear LEDs will both turn solid on.

Tip:

- * The drone will automatically turn off if no operation is performed within 5 minutes.
- * The remote will automatically turn off if no operation is performed within 30 minutes.

Calibrate the Compass

Step 1: Press and hold the button **1** for three seconds to start calibrating the remote beeps once and the LEDs on the drone turn off.

Step 2: Hold the drone horizontally and rotate it until the remote beeps once. The head LEDs light up in blue.

Step 3: Hold the drone vertically with its head facing down, and rotate it until the remote beeps twice. The rear LEDs light up in green.

Calibrate the Gyro

Place the drone on a flat surface. Push both sticks to lower left at 45°, the remote beeps once and the drone's rear LEDs flash quickly. Gyro calibration is completed when the drone's rear LEDs turn solid on.

Search for GPS Satellites

IMPORTANT: GPS Mode is the default mode for the drone, which requires a strong GPS signal. Please fly the drone outdoors.

GPS/RTH Indicator

- Solid on: GPS Mode on
- OFF: GPS Mode off
- Flash: RTH (Return-to-Home) on

Please wait for the drone to search for satellites; its head LEDs keep flashing quickly when searching for satellites. If the drone finds enough satellites, you'll hear a long beep from the remote, and the drone's head LEDs will turn solid on, indicating that it's ready to take off in GPS Mode.

Connect to Your Mobile Device

App Downloading and Installation

Download and install an App into your mobile device from App Store™/Google Play™ or by scanning the QR code below.

App's QR Codes:

Name of the Drone's WiFi: DR-DG600C-***** OR DR-DG600C-*****

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

App Launch

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

Step 2: Tap the Live Map to load the map, then tap **1** to have your location displayed on the center of the live map.

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

Notes:

- * If the drone's WiFi is not listed in your WiFi list or the App does not show the preview image, please restart the drone and remote, then repeat the pairing and calibration procedures.
- * Make sure 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 will be interrupted.

Flight Instructions

Take-off

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

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

Landing

Option 1: Press the button **1** 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

- Push the Left Control Stick forward and the drone will ascend; pull it backward and the drone will descend.
- Push the Left Control Stick to the left and the drone will rotate to the left; pull it rightward and the drone will rotate to the right.

Right Control Stick

- Push the Right Control Stick forward and the drone will fly forward; pull it backward and the drone will fly backward.
- Push the Right Control Stick to the left and the drone will fly leftward; pull it rightward and the drone will fly rightward.

Photo/Video

Press the button **1** to take a photo. Press the button **1** to start recording a video. Press it again to stop and save the video to your mobile device and memory card.

Speed Switch

The speed of the drone is set as Low speed by default. Push **1** rightward 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 **1** 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 functions normally.

Smart RTH

Press **1** on the remote to enable Smart RTH.

*** RTH Distance**

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

1. RTH Distance < 20M, Current Flight Altitude < 20M

The drone will directly fly back to Home Point at its current flight altitude 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.

Fail-safe RTH

Fail-safe 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 controller.

Note:

- * If the remote reconnects with the drone, you could press the button **1** to cancel RTH and regain control of the drone. If no operation is performed, the RTH process will continue.
- * The drone cannot avoid obstacles during the flight path of Fail-safe 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.

Emergency Stop

Press and hold **1** 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

- 1 Background
- 2 WiFi Signal
- 3 Number of Satellites
- 4 Waypoints
- 5 Follow Me
- 6 Point of Interest
- 7 Smart RTH
- 8 One Key Take-off/Landing
- 9 Live Map
- 10 Gestures for Photo/Video
- 11 Photo
- 12 Video
- 13 Flight Record
- 14 VR Mode
- 15 Settings
- 16 Media Gallery
- 17 Remote Battery Status
- 18 Drone-Battery Status
- 19 Flight Distance
- 20 Flight Altitude
- 21 VS:Ascend/Descent Speed

WiFi Signal: Check the WiFi signal strength to prevent your mobile device from losing track of the drone. When it shows low signal strength (1-2 bar), please fly the drone back immediately.

Number of Satellites: Check the signal of the GPS satellites.

Flight Records: Check all kinds of flight records here.

Flight Image: Tap **1** to flip the image 180°.

VR Mode: Tap **1** 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 **1** to start setting up your drone.

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

Beginner Mode: Beginner Mode with 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.

IMPORTANT

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

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 **1**, then slide rightward on the pop-up window to take off.

Point of Interest (POI)

Tap **1** to activate POI based on GPS Mode during flight, enter the POI Radius and tap Confirm to start. The drone will circle around the current point of the drone while keeping that point centered in the frame.

Landing

Tap **1** and slide rightward on the pop-up window to land the drone during the flight.

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

Follow Me

Tap **1** 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.

Note:

- * The function Follow Me may have deviation due to the GPS signal. Please maintain a safe distance between you and the drone when enabling this function.

2. Activate this function only when there is no obstacle around you in case of unexpected accidents.

3. 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 on a map during the flight.

Step 1: Tap **1** to start setting waypoints.

Step 2: Tap **1** to find your current location, then tap some desired waypoints on the map. Tap **1** to delete waypoints if you want to reset.

Step 3: Tap **1** to upload waypoints.

Step 4: Tap **1** to start recording.

Photo/Video

Tap **1** to take one photo. Tap **1** to start recording, tap **1** again to stop and save the video to your memory card and mobile device. Go to Media Gallery, select the photo or video preferred and tap **1** to share with your friends.

Gestures for Photo/Video

Tap **1** to activate this function. Within 3m under light-filled circumstances, please make a **1** gesture with your Right Hand for taking a photo, a **1** gesture for starting and ending the video recording.

Smart RTH

Tap **1** 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 function.

TROUBLESHOOTING

Q1. The motors of the drone don't spin.

- * Ensure that you're turned on the drone and the remote.
- * Ensure that the 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.

- * Try to calibrate the compass.
- * Try to calibrate the gyros.

Q3. The drone's propellers start rotating after I unlock the motor, but the drone fails to take off.

- * Ensure that the drone battery has enough power.
- * Push the Left Control Stick forward to take off after unlocking the motor.
- * Ensure that the propellers (A/B) 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.

- * Calibrate the gyros.
- * Ensure that the propellers (A/B) are installed correctly.
- * Check if the motor is stuck by any small object or if there is a burning smell from the motor. 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's propeller fails to rotate.

- * Check if the propeller is over-tightened.
- * Check if the motor is stuck by any small object or if there is a burning smell from the motor. 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.

Q6. The drone drifts after taking off.

- * Ensure that GPS Mode is ON and the GPS signal is strong.
- * Please land the drone and calibrate the gyros.
- * Please land the drone and calibrate the compass.

Q7. 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.

Q8. Why can't I see the live image on my App?

- * Ensure that the drone has enough power.
- * Ensure that your mobile device has connected to the drone's WiFi.
- * Please go to your mobile device's setting to turn off your cellular data, or disable the location that allows your phone to automatically disconnect to WiFi with no internet access.
- * Ensure that the drone flies within FPV 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)	5.0W: 11.5500m 5.0W: 12.0000m
Remote	
Transmit Power (EIRP)	2.4GHz: 14.6600m

FCC Warning:

This device complies with FCC rules and is authorized for operation in the United States under FCC Part 15. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference that may cause undesired operation of the device.

For protection against radio interference, the user should be advised that the use of this device with any accessory that is not approved by the manufacturer, use of an unshielded antenna, or unauthorized modifications, may void the user's authority to operate the equipment.

Changes to this document are made without notice. 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 radio interference to other licensed devices. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications. It is the responsibility of the user to ensure that this equipment does not cause harmful interference to other licensed devices, which can be determined by turning the equipment off and on. The user is encouraged to carry 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 Reference: This device has been tested and complies with FCC SAR limits.

The user is cautioned that this equipment is not certified for use as an unlicensed transmitter. This equipment should be operated in accordance with the instructions provided between the manufacturer's user manuals. This transmitter must not be used for operating in conjunction with any other antenna or transmitter.

ISED Warning:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following conditions:

- (1) This device must not be used to cause interference.
- (2) This device must accept any interference that may cause undesired operation of the device.

For protection against radio interference, the user should be advised that the use of this device with any accessory that is not approved by the manufacturer, use of an unshielded antenna, or unauthorized modifications, may void the user's authority to operate the equipment.

Changes to this document are made without notice. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the RSS standard(s). These limits are designed to provide reasonable protection against radio interference to other licensed devices. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications. It is the responsibility of the user to ensure that this equipment does not cause harmful interference to other licensed devices, which can be determined by turning the equipment off and on. The user is encouraged to carry 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 Reference: This device has been tested and complies with FCC SAR limits.

The user is cautioned that this equipment is not certified for use as an unlicensed transmitter. This equipment should be operated in accordance with the instructions provided between the manufacturer's user manuals. This transmitter must not be used for operating in conjunction with any other antenna or transmitter.

Q9. The drone's propellers start rotating after I unlock the motor, but the drone fails to take off.

- * Ensure that the drone battery has enough power.
- * Push the Left Control Stick forward to take off after unlocking the motor.
- * Ensure that the propellers (A/B) are installed correctly.
- * Check if the rotating speed of each motor is the same. If not, the motor is broken, please contact us directly.

Q10. The drone drifts after taking off.

- * Ensure that GPS Mode is ON and the GPS signal is strong.
- * Please land the drone and calibrate the gyros.
- * Please land the drone and calibrate the compass.