

# SPECTA

## SAFETY GUIDE

v1.0



By using this product, you signify that you have read, understand and accept the terms and conditions of this guide. THE PRODUCT AND ALL MATERIALS AND CONTENT AVAILABLE THROUGH THE PRODUCT ARE PROVIDED "AS IS" AND ON "AS AVAILABLE BASIS" WITHOUT WARRANTY OR CONDITION OF ANY KIND. This product is not intended for children.

### 1. Flight Environment

#### WARNING

- DO NOT use the aircraft in severe weather conditions including heavy wind exceeding 12 m/s, snow, rain, fog, hail, or lightning.
- DO NOT take off from an altitude more than 6,000 m (19,685 ft) above sea level.
- DO NOT fly the aircraft in environments where the temperature is below -10° C (14° F) or above 40° C (104° F).
- DO NOT take off from moving objects such as cars, ships, and airplanes.
- DO NOT fly close to reflective surfaces such as water or snow. Otherwise, the vision system may be limited.
- When the GNSS signal is weak, fly the aircraft in environments with good lighting and visibility. Low ambient light may cause the vision system to work abnormally.
- DO NOT fly the aircraft near areas with magnetic or radio interference, including Wi-Fi hotspots, routers, Bluetooth devices, high-voltage lines, large scale power transmission stations, radar stations, mobile base stations, and broadcasting towers.
- When flying at a high altitude, pay attention to environmental changes such as cloud cover, air currents, and low temperatures to avoid impacting the battery and power performance, which may cause an accident.

#### NOTICE

- Be careful when taking off in the desert or from a beach to avoid sand entering the aircraft.
- Fly the aircraft in open areas. Buildings, mountains, and trees may block the GNSS signal and affect the on-board compass.

### 2. Flight Operation

#### WARNING

- Stay away from rotating propellers and motors.
- Make sure the aircraft batteries, remote controller, and the mobile device are fully charged.
- Be familiar with the selected flight mode and understand all safety functions and warnings.
- When flying at a high altitude, keep a safe distance from other aircraft and fly carefully to avoid collisions.

**NOTICE**

- Make sure the Specta app and aircraft firmware have been updated to the latest version.
- Land the aircraft in a safe location when there is a low battery or high wind warning.
- Use the remote controller to control the speed and altitude of the aircraft to avoid collisions during auto-returning.

### 3. Battery Safety Notice

**⚠ WARNING**

- Keep batteries clean and dry. DO NOT allow liquid to come into contact with the batteries. DO NOT leave batteries covered in moisture or out in the rain. DO NOT drop the batteries into water. Otherwise, an explosion or fire may occur.
- DO NOT use swollen, leaking, or damaged batteries.
- The batteries should be used at a temperature between -10° and 40° C (14° and 104° F). A high temperature can cause an explosion or fire. A low temperature will reduce the performance of a battery.
- DO NOT disassemble or pierce the battery in any way.
- The electrolytes in the battery are highly corrosive. If any electrolytes come into contact with your skin or eyes, immediately wash the affected area with water and seek medical support.
- Keep batteries out of the reach of children and animals.
- DO NOT use a battery if it is involved in a crash or heavy impact.
- Extinguish any battery fire using water, sand, or a dry powder fire extinguisher.
- DO NOT charge the battery immediately after flight. The battery temperature may be too high and may cause serious damage to the battery. Allow the battery to cool down to close to room temperature before charging. Charge the battery at a temperature range of 5° to 40° C (41° to 104° F). The ideal charging temperature range is 22° to 28° C (72° to 82° F). Charging at the ideal temperature range can prolong battery life.
- DO NOT expose the battery to fire. DO NOT leave the battery near heat sources such as a furnace, heater, or inside a vehicle on a hot day. Avoid storing the battery in direct sunlight.
- DO NOT store the battery for an extended period after fully discharging. Otherwise, the battery may over-discharge and cause irreparable damage to the battery cell.
- If a battery with a low power level has been stored for an extended period, the battery will enter deep hibernation mode. Recharge the battery to bring it out of hibernation.

## Specifications

**Aircraft (Model: TQFDUB2)**

Operating Temperature -10° to 40° C (14° to 104° F)

**Video Transmission**

Operating Frequency 2.4000-2.4835 GHz, 5.725-5.850 GHz, 5.150-5.250 GHz

Transmitter Power (EIRP) 2.4 GHz: <33 dBm (FCC) 5.1 GHz: <21 dBm (FCC)  
5.8 GHz: <33 dBm (FCC)

**Wi-Fi**

Protocol 802.11a/b/g/n/ac

Operating Frequency 2.4000-2.4835 GHz, 5.725-5.850 GHz

Transmitter Power (EIRP)	2.4 GHz: <20 dBm (FCC) 5.8 GHz: <23 dBm (FCC)
<b>Bluetooth</b>	
Protocol	Bluetooth 5.2
Operating Frequency	2.4000-2.4835 GHz
Transmitter Power (EIRP)	<10 dBm
<b>Remote Controller (Model: GL33)</b>	
Operating Temperature	-10° to 40° C (14° to 104° F)
<b>Video Transmission</b>	
Operating Frequency	2.4000-2.4835 GHz, 5.725-5.850 GHz, 5.150-5.250 GHz
Transmitter Power (EIRP)	2.4 GHz: <32 dBm (FCC) 5.8 GHz: <32 dBm (FCC)
<b>Wi-Fi</b>	
Protocol	802.11a/b/g/n/ac/ax
Operating Frequency	2.4000-2.4835 GHz, 5.150-5.250 GHz, 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <20 dBm (FCC) 5.1 GHz: <26 dBm (FCC) 5.8 GHz: <23 dBm (FCC)
<b>Bluetooth</b>	
Protocol	Bluetooth 5.2
Operating Frequency	2.4000-2.4835 GHz
Transmitter Power (EIRP)	<5 dBm
<b>Intelligent Flight Battery (Model: BSPE-4241-4S)</b>	
Charging Temperature	5° to 40° C (41° to 104° F)
Capacity	4241 mAh
Standard Voltage	14.76 V
Supported Charger	65W USB Power Delivery chargers

## FCC Compliance Notice

Supplier's Declaration of Conformity

Product name: SPECTA

Model Number: TQFDUB2

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

#### RF Exposure Information

The aircraft complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This remote controller complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body.

These requirements set a SAR limit of 4 W/kg averaged over ten gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the limbs.

#### CLASS 1 CONSUMER LASER PRODUCT

EN50689:2021/ EN60825-1:2014+A11:2021/  
IEC60825-1:2014. Complies with 21 CFR 1040.10 and  
1040.11 except for conformance with IEC 60825-1 Ed. 3,  
as described in Laser Notice No. 56, dated May 8, 2019.

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