

Safety Guidelines



The Anzu Raptor Series is NOT a toy and is NOT suitable for children.

1. Environmental Considerations

- Avoid flying in areas with magnetic or radio interference, buildings, other obstacles, or near large crowds.
- DO NOT take off from an altitude more than 6,000 m (19,685 ft) above sea level.
- DO NOT fly the aircraft in temperatures below -10° C (14° F) or above 40° C (104° F).
- DO NOT fly in unauthorized areas. Refer to the Regulations & Flight Restrictions section for more information.
- Some aircraft features may be limited due to insufficient lighting, no GNSS signal, or lack of space when flying indoors. Take additional care.
- DO NOT use the aircraft in severe weather conditions including heavy wind exceeding 12 m/s, snow, rain, fog, hail, or lightning.

2. Pre-Flight Checklist

- Make sure the remote controller and the aircraft batteries are fully charged, and the battery is installed firmly.
- Make sure the propellers are securely mounted and not damaged or deformed, there are no foreign objects in or on the motors or propellers, and the propeller blades and arms are unfolded.
- Make sure the lenses of the vision systems, cameras, the glass of the infrared sensors, and the auxiliary lights are clean, free of stickers, and not blocked in any way.
- Make sure to remove the gimbal protector before powering on the aircraft.
- Make sure the covers of the microSD card slot, and the PSDK port have been closed properly.
- Make sure the remote controller antennas are adjusted to the proper position.
- Make sure The software and the aircraft firmware have been updated to the latest version.
- Power on the aircraft and the remote controller. Make sure the status LED on the remote controller and the battery level indicators on the aircraft are solid green. This indicates that the aircraft and the remote controller are linked and the remote controller is in control of the aircraft.
- Make sure your flight area is outside any GEO zones and flight conditions are suitable for flying the aircraft. Place the aircraft on open and flat ground. Make sure there are no obstacles, buildings, or trees nearby, and that the aircraft is 5 m away from the pilot. The pilot should be facing the rear of the aircraft.
- To ensure flight safety, enter the camera view of the software and check the parameters on the pre-flight checklist such as the failsafe settings, control stick mode, RTH height, and obstacle distance. It is recommended to set the out-of-control action to RTH.
- Make sure the software is properly opened to assist your operation of the aircraft. WITHOUT THE FLIGHT DATA RECORDED BY THE SOFTWARE APP, IN CERTAIN SITUATIONS (INCLUDING THE LOSS OF YOUR AIRCRAFT) Anzu Robotics MAY NOT BE ABLE TO PROVIDE AFTERSALES SUPPORT TO YOU OR ASSUME LIABILITY.
- Divide the airspace for flight when multiple aircrafts are operating simultaneously in order to avoid collision mid-air.

3. Operation

- DO NOT start the motors before unfolding the arms. Otherwise, the aircraft may be damaged.
- DO NOT touch the battery buckles while holding the aircraft to avoid it loosening.
- Stay away from the rotating propellers and motors.
- Maintain visual line of sight (VLOS) of the aircraft at all times.
- DO NOT answer incoming calls, messages, or perform any action on your mobile device that may distract you from controlling the aircraft during flight. DO NOT fly under the influence of

alcohol or drugs.

- DO NOT fly close to reflective surfaces such as water or snow, as these types of terrain may affect the performance of the vision systems. When the GNSS signal is weak, limit flying the aircraft to environments with good lighting and visibility.
- Land the aircraft in a safe location when there is a low battery or high wind warning.
- The aircraft cannot avoid obstacles during RTH when there is insufficient light. Use the remote controller to control the speed and altitude of the aircraft to avoid collisions during RTH when the remote controller signal is normal.
- After landing, stop the motors, power off the aircraft, and turn off the remote controller. Otherwise, the aircraft may enter Failsafe RTH automatically due to remote controller signal loss.
- Pay attention and control the aircraft at all times during flight. DO NOT rely only on the vision systems and The software. Safety and flight assistance features are meant to assist the pilot, not replace their control of the aircraft. Environmental conditions such as lighting and the surface texture of obstacles may impact the performance of the vision system. Intelligent flight control features such as precision landing and obstacle avoidance are disabled when the vision system functions are impaired. Keep the aircraft within VLOS and pay close attention to its flight. Use sound discretion to operate the aircraft and manually avoid obstacles in a timely manner. It is important to set an appropriate failsafe and RTH altitude before each flight.
- DO NOT expose the infrared camera lenses to strong sources of energy such as the sun, lava, or a laser beam. Otherwise, the camera sensor may be burned leading to permanent damage.
- Make sure that the accessories are correctly and securely mounted on the aircraft before use. Otherwise, they may fall from the aircraft during flight.
- DO NOT point the beacon directly into the eye.
- DO NOT use the speaker near people or in an urban area where noise-sensitive structures are concentrated as the loudness could lead to accidents or injuries.

Disclaimer and Warning

By using this product, you signify that you have read, understand and accept the terms and conditions of this guideline, 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.

Export Compliance, Disclaimer & Indemnity

You acknowledge it is your responsibility to comply with EU export control law and any other applicable export control laws. You shall solely be responsible for the legal responsibility if any of your use, sale, transfer, rental or other conduct related to the Anzu Raptor T related Products fail to comply with the applicable export control laws. Anzu Robotics shall, in no circumstances, be responsible for your violation of any applicable export control laws. Furthermore, you shall indemnify, defend, and hold harmless Anzu Robotics, its affiliates, directors, officers, employees, agents, and representatives, from and against any and all claims, demands, suits, causes of action, expenses (including reasonable attorneys' fee), damages, losses, or liabilities of any nature whatsoever, arising from, or allegedly arising from, or related to, your failure to comply with applicable export control laws.

Glossary

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

[NOTICE] Procedures, which if not properly followed, create a possibility of physical property damage AND a small or no possibility of injury.

[WARNING] Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury or create a high probability of superficial injury.

Battery Safety Notice

[WARNING]

1. 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.

2. DO NOT use non-Anzu Robotics batteries. It is recommended to use Anzu Robotics chargers.
3. DO NOT use swollen, leaking, or damaged batteries. In such situations, contact Anzu Robotics or a Anzu Robotics authorized dealer.
4. 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.
5. DO NOT disassemble or pierce the battery in any way.
6. 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.
7. Keep the batteries out of the reach of children and animals.
8. DO NOT use a battery if it is involved in a crash or heavy impact.
9. Extinguish any battery fire using water, sand, or a dry powder fire extinguisher.
10. 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.
11. DO NOT leave the batteries near heat sources such as a furnace or heater, under direct sunlight, or inside a vehicle in hot weather.
12. 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.
13. 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.
14. Regularly check the battery level indicators to see the current battery level. The battery is rated for 200 cycles. It is not recommended to continue use after 200 cycles.

Functional Parts Requirements

1. Make sure there are no foreign objects such as water, oil, soil, or sand inside the aircraft or its components. Ports such as the PSDK port must be closed firmly if not used.
2. DO NOT modify or alter the aircraft, its components, or parts. Unauthorized modification may cause malfunctions and affect the functionality and safety of the aircraft.
3. Make sure when installing any external devices that the total weight of the aircraft does not exceed the maximum takeoff weight. In addition, the external device must be installed in a location so that the center of gravity is maintained within the range of the aircraft top shell to keep the aircraft stable and so that the vision systems, the infrared sensing system, and the auxiliary light are not blocked.
4. DO NOT block the air intake and air vent.
5. DO NOT use accessories that are specifically for the Anzu Raptor Series with other products. Users take full responsibility for any damage caused by the use of accessories with other products.
6. If using a third-party device or payload on the Anzu Raptor Series aircraft, read the manual and safety documents of the third-party device or payload carefully. Even if the third-party equipment can be used with Anzu Robotics equipment, Anzu Robotics does not guarantee the third-party equipment can function properly or safely. Anzu Robotics is not responsible for any property or personal damage caused by a third-party device or payload.

Maintenance

[NOTICE]

1. DO NOT allow the camera to come into contact with or become immersed in water or other liquids. Wipe the camera dry with a soft, absorbent cloth if it gets wet. Powering on an aircraft that has fallen into water may cause permanent component damage. DO NOT store the product in humid or dusty areas.
2. DO NOT use substances containing flammable substances such as alcohol to clean or maintain the cameras, vision systems, infrared sensing systems, or auxiliary bottom light.

3. Check every part of the aircraft after any crash or collision. If you have any problems or questions, please contact Anzu Robotics Support or a Anzu Robotics authorized dealer.
4. It is recommended to store the product in an environment with an ambient temperature of 15° to 25° C and a humidity of about 40%.
5. When storing or transporting the aircraft for an extended period, make sure that the gimbal protector is firmly installed and the frame arms are folded. Detach the propellers and gently place the aircraft in the carrying case to avoid damaging the camera, IMU, and other parts.
6. Check and maintain the product after using it for an extended period to keep it in the best condition possible and reduce potential safety hazards. The frequency of how often maintenance should be performed depends on how often the product is used. Maintenance must be performed at least once every six months. The product can be sent to Anzu Robotics for maintenance.
7. Parts of the aircraft have a life expectancy. From the time of first use, wearing parts such as the propeller and the gimbal damper have a life expectancy of 300 hours, while the other components of the propulsion system (e.g. motors) have a life expectancy of 600 hours. There may be potential safety hazards if the product is used after the life expectancy has passed. Anzu Robotics is not responsible for any risks that may arise from continuing use of these parts.

Flight Condition Requirements

[WARNING]

The aircraft is designed to operate in good to moderate weather conditions. Observe the following rules to avoid collision, serious injury, and property damage:

1. DO NOT use the aircraft in severe weather conditions including wind speeds exceeding 12 m/s, snow, rain, fog, hail and lightning.
2. DO NOT operate the aircraft when the GNSS signal is weak or there is a significant change in the ground level (such as when flying an aircraft from a high-rise balcony). Otherwise, the positioning may experience interference and the flight safety may be affected.
3. DO NOT fly close to reflective surfaces such as water or snow. Otherwise, the vision system may be limited.
4. 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.
5. DO NOT take off from moving objects such as cars, ships, and airplanes. Otherwise, the aircraft may behave abnormally and cause an accident.
6. Be careful when taking off from a desert or sand beach, as the flight performance may be affected if sand enters the aircraft. It is recommended to use a drone landing pad when taking off from such places.

[NOTICE]

1. Fly in open areas. Tall buildings, steel structures, mountains, and trees may affect the accuracy of the on-board compass and block the GNSS signal.
2. Avoid interference between the remote controller and other wireless equipment. Make sure to turn off the Wi-Fi on your mobile device.
3. DO NOT fly near areas with magnetic or radio interference. These include but are not limited to: Wi-Fi hotspots, routers, Bluetooth devices, high-voltage lines, large scale power transmission stations, radar stations, mobile base stations, and broadcasting towers. Failure to do so may compromise the transmission quality of this product or cause remote controller and video transmission errors which may affect flight orientation and location accuracy. The aircraft may behave abnormally or go out of control in areas with too much interference.

1. DO NOT operate in the vicinity of manned aircraft regardless of altitude. DO NOT fly the aircraft above the authorized altitude. Remain well clear of and DO NOT interfere with manned aircraft operations. Be aware of and avoid other aircraft and obstacles at all times. Land immediately if necessary.
2. DO NOT fly the aircraft in venues of major events, including but not limited to sporting events and concerts.
3. DO NOT fly the aircraft without authorization in areas prohibited by local laws. Prohibited areas include airports, national borders, major cities and densely populated areas, venues of major events, areas where emergencies have occurred (such as forest fires), and locations with sensitive structures (such as nuclear power plants, power stations, hydropower plants, correctional facilities, heavily traveled roads, government facilities, and military zones).
4. DO NOT fly the aircraft above the authorized altitude.
5. Make sure to keep your aircraft within VLOS, and use an observer to assist if needed.
6. DO NOT use the aircraft to carry illegal or dangerous goods or payloads.

[NOTICE]

1. Make sure you understand the nature of your flight operation (such as for recreation, for public use, or for commercial use) and have obtained corresponding approval and clearance from the related government agencies before flight. Consult with your local regulators for comprehensive definitions and specific requirements. Note that remote controlled aircraft may be banned from conducting commercial activities in certain countries and regions. Check and follow all local laws and ordinances before flying as those rules may differ from those stated here.
2. Respect the privacy of others when using the camera. DO NOT conduct surveillance operations such as image capture or video recording on any person, entity, event, performance, exhibition, or property without authorization or where there is an expectation of privacy, even if the image or video is captured for personal use.
3. Be advised that in certain areas, the recording of images and videos from events, performances, exhibitions, or commercial properties by means of a camera may contravene copyright or other legal rights, even if the image or video was shot for personal use.

Flight Restrictions

[NOTICE]

Anzu Robotics takes flight safety seriously and therefore developed various aids to help users fly more safely. These aids do not guarantee that you are in compliance with all applicable laws, regulations, and temporary flight restrictions. You are solely responsible for your behavior when flying a Anzu Robotics aircraft.

It is recommended to update the firmware to the latest version using the software to ensure the following features are fully updated.

GEO Zones

In compliance with the relevant laws, policies, and regulations, some GEO zones will not appear on the map on the website. Refer to the software for a complete map of GEO zones in effect.

Altitude Limit

Fly no higher than 120 m (400 ft) above ground level and stay away from any surrounding obstacles.

* Flight altitude restrictions vary in different regions. DO NOT fly above the maximum altitude set forth in your local laws and regulations.

Regulations & Flight Restrictions

Regulations

[WARNING]

Observe the following rules to avoid non-compliant behaviour, serious injury, and property damage:

Directrices de seguridad



La Serie Anzu Raptor NO es un juguete y NO es apta para niños.

1. Consideraciones del entorno

- Evite volar en zonas donde haya interferencias electromagnéticas o de radio, edificios u otro tipo de obstáculos, o cerca de grandes aglomeraciones de personas.
- NO despegues a una altitud superior a 6000 m sobre el nivel del mar.
- NO utilice la aeronave a temperaturas inferiores a -10 °C (14 °F) o superiores a 40 °C (104 °F).
- NO vuele en zonas no autorizadas. Consulte la sección Normativas y restricciones de vuelo para obtener más información.
- Al volar en interiores, algunas funciones de la aeronave podrían verse limitadas debido a una iluminación insuficiente, ausencia de señal GNSS o falta de espacio. Tenga especial precaución.
- NO utilice la aeronave en condiciones climáticas adversas, incluidas velocidades de viento superiores a 12 m/s, nieve, lluvia, niebla, granizo o rayos.

2. Lista de comprobación previa al vuelo

- Asegúrese de que las baterías del control remoto y de la aeronave estén totalmente cargadas y que la batería esté instalada firmemente.
- Asegúrese de que las hélices estén montadas correctamente y no presenten daños ni deformaciones, que no haya ningún objeto extraño dentro ni encima de los motores o de las hélices y que las palas de las hélices y los brazos estén desplegados.
- Asegúrese de que las lentes de los sistemas de visión, las cámaras, el cristal de los sensores de infrarrojos y las luces auxiliares estén limpios, libres de pegatinas y no presenten ningún tipo de interferencia.
- Asegúrese de retirar el protector del estabilizador antes de encender la aeronave.
- Asegúrese de que las tapas de la ranura para tarjetas microSD y del puerto PSDK estén firmemente cerradas.
- Asegúrese de que las antenas del control remoto se hayan colocado en la posición adecuada.
- Asegúrese de que la aplicación el software y el firmware de la aeronave estén actualizados a la versión más reciente.
- Encienda la aeronave y el control remoto. Asegúrese de que el led de estado del control remoto y los indicadores del nivel de batería de la aeronave estén iluminados en verde fijo. Se indica así que la aeronave y el control remoto están vinculados y que el control remoto controla la aeronave.
- Asegúrese de que su área de vuelo esté fuera de cualquier zona GEO y que las condiciones de vuelo sean adecuadas para volar la aeronave. Coloque la aeronave sobre un terreno despejado y plano. Asegúrese de que no haya obstáculos, edificios ni árboles en los alrededores y que la aeronave esté a 5 m del piloto. El piloto debe estar orientado hacia la parte trasera de la aeronave.
- Para garantizar la seguridad del vuelo, acceda la vista de cámara en la aplicación el software y compruebe los parámetros especificados en la lista de verificación previa al vuelo, como los ajustes de seguridad, el modo de las palancas de control, la altitud de RPO y la distancia a los obstáculos. Se recomienda establecer RPO como Acción en fuera de control.
- Asegúrese de que la aplicación El software esté abierta adecuadamente para ayudarle a pilotar la aeronave. SIN LOS DATOS QUE REGISTRA EL SOFTWARE, EN DETERMINADAS SITUACIONES (INCLUIDA LA PÉRDIDA DE LA AERONAVE) ES POSIBLE QUE Anzu Robotics NO PUEDA PRESTARLE SERVICIOS DE ASISTENCIA POSVENTA NI ASUMA RESPONSABILIDAD ALGUNA.
- Para evitar colisiones en pleno vuelo, divida el espacio aéreo para volar cuando haya varias aeronaves operando simultáneamente.

3. Operación

- NO arranque los motores antes de desplegar los brazos. De lo contrario, la aeronave podría dañarse.
- Mientras sostenga la aeronave, NO toque las bandas de sujeción de la batería para evitar que esta se suelte.
- Manténgase lejos de las hélices y los motores en movimiento.
- Mantenga la aeronave dentro de su alcance visual en todo momento.
- NO responda llamadas ni mensajes, ni realice ninguna acción en el dispositivo móvil que pueda distraerle del control de la aeronave durante el vuelo. NO vuele bajo los efectos del alcohol ni de las drogas.
- NO vuele cerca de superficies reflectantes, como el agua o la nieve, ya que estas superficies pueden afectar al rendimiento de los sistemas de visión. Si la señal GNSS es débil, restrinja el vuelo de la aeronave a entornos con buena iluminación y visibilidad.
- Aterrice la aeronave en un lugar seguro cuando haya una advertencia de batería baja o de fuertes vientos.
- La aeronave no podrá esquivar obstáculos durante el RPO si la luz es insuficiente. Utilice el control remoto para controlar la velocidad y altitud de la aeronave con el fin de evitar colisiones durante el RPO cuando la señal del control remoto sea normal.
- Después de aterrizar, detenga los motores y apague la aeronave y el control remoto. De lo contrario, la aeronave puede entrar en RPO de seguridad automáticamente debido a la pérdida de la señal del control remoto.
- Preste atención y controle la aeronave en todo momento durante el vuelo. NO confíe únicamente en los sistemas de visión y el software para controlar la aeronave. Las funciones de seguridad y asistencia de vuelo están destinadas a ayudar al piloto, no a reemplazar su control de la aeronave. Las condiciones del entorno, como la iluminación y las texturas de ciertos obstáculos, pueden afectar al rendimiento de los sistemas de visión. Algunas características del control de vuelo inteligente, como el aterrizaje de precisión y el sistema anticollisión, se deshabilitan si las funciones del sistema de visión se ven afectadas. Mantenga la aeronave dentro de su alcance visual y preste mucha atención al vuelo de esta. Use su capacidad de juicio para operar la aeronave y evite manualmente los obstáculos a tiempo. Es importante establecer una altitud de seguridad apropiada en caso de fallo y RPO antes de cada vuelo.
- NO exponga los objetivos de la cámara de infrarrojos a fuentes de energía potentes, como el sol, lava o un rayo láser. De lo contrario, el sensor de la cámara podría quemarse y sufrir daños permanentes.
- Asegúrese de que los accesorios estén montados de forma correcta y segura en la aeronave antes de usarla. De lo contrario, pueden caerse de la aeronave durante el vuelo.
- NO apunte la baliza directamente a los ojos.
- NO use el altavoz cerca de personas ni en un área urbana donde se concentren estructuras sensibles al ruido, ya que el volumen podría provocar accidentes o lesiones.

Renuncia de responsabilidad y advertencia

Al usar este producto, confirma que ha leído, comprendido y aceptado los términos y condiciones de este documento para Raptor/ Raptor T. SALVO SI LAS POLÍTICAS DEL SERVICIO POSVENTA, DISPONIBLES EN LA PÁGINA INDICAN LO CONTRARIO DE MANERA EXPRESA, EL PRODUCTO Y TODOS LOS MATERIALES Y CONTENIDOS DISPONIBLES A TRAVÉS DE ESTE SE SUMINISTRAN "EN SU ESTADO ACTUAL" Y "SEGÚN DISPONIBILIDAD", PERO SIN GARANTÍAS NI CONDICIONES DE NINGÚN TIPO.

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