

1. User Information

Note: All instructions, warranties and other related documents are subject to change. For current product literature see www.tobyrich.com/support.
In various countries, there is a compulsory insurance requirement, also for model and toy airplanes. In any case, please inquire with your liability insurance and, in case of doubt, ensure that you are insured for the operation of such planes.

1.1. Data protection

The SmartPlane Pro App does not store any personal data, without express permission.

1.2. Definition of Terms

The following terms are used throughout the product literature to determine the hazard levels in dealing with the product:

NOTE: Refers to useful information.

CAUTION: Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

WARNING: Indicates a potentially hazardous situation, which, in case of non-compliance with the instructions, may result in severe injury.

WARNING: Read the ENTIRE instructions manual to familiarize yourself with the functions of the product before commissioning. Incorrect handling can damage the product and personal property and cause serious injury.

This is a technically demanding product for hobby use. It must be handled with caution and prudence and requires some basic manual skills. Failure to use the product in a safe and circumspect manner could result in injury or damage to the product or other property. Do not attempt to disassemble the product without the consent of the manufacturer, to use it with incompatible components, or to modify it at will. This manual contains safety instructions as well as operating and maintenance instructions. To ensure correct operation and to avoid damage or serious injury, it is imperative that you read all the instructions and warnings in this manual before commissioning and follow them.

1.3. Warnings and safety instructions

- » Always keep a safety distance on all sides around the model to avoid collisions or injuries. This model is controlled by a radio signal, which can be disturbed. These disturbances can lead to loss of control.
- » Always keep a safety distance to public roads and high voltage cables.
- » Always operate your model on open terrain, far from automobiles, traffic and people.
- » Keep a distance to airports of at least 1.5 km.
- » Always pay attention to the wind, the weather and obstacles.
- » Always follow the instructions and warnings for this model and all related accessories

(rechargeable batteries etc.).

- » Never operate the airplane with damaged wiring.
- » Avoid any water contact. Humidity damages the electronics.
- » Never touch moving parts.
- » Caution: Long hair can catch in the SmartPlane Pro Propeller.
- » Never put parts of your model in the mouth as this will cause serious injury, even death.
- » Take out liability insurance before use.
- » You will take part in the general air transport with your aircraft. If you want to use your aircraft commercially, you need an ascension permit.
- » Keep your model always in sight and under control.
- » Observe the legal requirements for maximum altitude.
- » Always use fully charged batteries.
- » Always keep all parts clean.
- » Never touch the rotating propeller.

Be sure to check the drones regulations applicable to your country for specific national rules and regulations regarding the operation of unmanned aerial vehicles.

2. Checklists: Flight preparation and follow-up

2.1. Preparation of the first flight

2.2. Preflight Check (to be carried out before each flight)

- Remove the contents of the package and check it thoroughly for damage and functional integrity.
- Check whether the propeller can rotate freely.
- Read these instructions thoroughly.
- Charge the battery (s. chapter 3.1.).
- Download and install the App from the App Store or Google Play Store (search term "SmartPlane Pro TobyRich").
- Search for a large open space for your first flights, and choose a windstill day to check the flight behavior of the SmartPlane Pro.
- Perform the Preflight Check (s. chapter 2.2.).
- Switch on the aircraft and connect it to the app (s. chapter 3.3.).

- Check the rudder for free movement.
- Align the antenna vertically.
- Use a fully charged battery.
- Use a fully charged Smartphone.
- Turn your smartphone on loud to get acoustic warnings and tips.
- Caution: Turn your smartphone on in flight mode. Otherwise, the connection will interrupt for incoming calls.

- Speed / flight altitude: The thumb control is used to move the thrust regulator on the display of your smartphone. If this is pulled up, the plane gains speed. A downward movement reduces this. The altitude of the Smart Pro plane can be adjusted via the speed.
- » Spiralling: Through a slight tilting of the smartphone (See picture) to the left or right, the SmartPlane Pro will start spiralling.

Important: Charge the battery at least every 3 months.

3. Operation

This product is a stunt and racing plane. It has highly developed sensors inside the aircraft, which enable active position control and flight stabilization. This results in smoother flying, allows beginner-friendly flying as well as automatic stunts at the push of a button. Throughout the flight, the sensors inside the aircraft permanently analyse the position in the airspace and calculate necessary compensatory movements of the rudders. The positioning system is already active before takeoff.

2.3. Maintenance after the flight

- Remove the battery from the aircraft
- Charge the battery (at least every 3 months).
- Repair or replace any damaged parts.
- Keep battery and SmartPlane Pro separate from each other.
- Store and transport the SmartPlane Pro exclusively in its packaging, in order to prevent damage.

2.4. SmartPlane Pro specifications

Flight time	Weight	Charging time
12 min	1.2 oz	20 min
Length	Wingspan	Battery
13 in	11.8 in	LiPo 185 mAh

3.3. Switch on the SmartPlane Pro

1. To connect the SmartPlane Pro, plug the charged battery into the battery bay of the aircraft up to the limit stop. The LED on the plane flashes green now.
2. Enable Bluetooth in the smartphone settings and start up the SmartPlane Pro App.
3. Keep your smartphone close to the antenna in the front of the aircraft. With existing Bluetooth connection, the LED is now permanently green.

3.4. Control

3.4.1. Tilt mode

With two simple hand movements, the App allows for comfortable and easy control of the SmartPlane Pro. Only one hand is needed for this. The smartphone needs to be held flat and horizontal for takeoff.

3.1. Charging the battery

3.2. Download the SmartPlane Pro App

3.3. Switch on the SmartPlane Pro

3.4.2. Joystick-Mode

3.5. Aerobic Maneuvers

3.6. Hover Mode

3.7. Circle Mode

3.8. Looping Mode

3.9. Stunts

3.10. Control Gestures

3.11. Upflick

3.12. Downflick

3.13. Double Tap

3.14. Aerobic Maneuvers

3.15. Helicopter Mode

3.16. Hover Mode

3.17. Looping Mode

3.18. Circle Mode

3.19. Stunts

3.20. Control Gestures

3.21. Upflick

3.22. Downflick

3.23. Double Tap

3.24. Aerobic Maneuvers

3.25. Helicopter Mode

3.26. Hover Mode

3.27. Looping Mode

3.28. Circle Mode

3.29. Stunts

3.30. Control Gestures

3.31. Upflick

3.32. Downflick

3.33. Double Tap

3.34. Aerobic Maneuvers

3.35. Helicopter Mode

3.36. Hover Mode

3.37. Looping Mode

3.38. Circle Mode

3.39. Stunts

3.40. Control Gestures

3.41. Upflick

3.42. Downflick

3.43. Double Tap

3.44. Aerobic Maneuvers

3.45. Helicopter Mode

3.46. Hover Mode

3.47. Looping Mode

3.48. Circle Mode

3.49. Stunts

3.50. Control Gestures

3.51. Upflick

3.52. Downflick

3.53. Double Tap

3.54. Aerobic Maneuvers

3.55. Helicopter Mode

3.56. Hover Mode

3.57. Looping Mode

3.58. Circle Mode

3.59. Stunts

3.60. Control Gestures

3.61. Upflick

3.62. Downflick

3.63. Double Tap

3.64. Aerobic Maneuvers

3.65. Helicopter Mode

3.66. Hover Mode

3.67. Looping Mode

3.68. Circle Mode

3.69. Stunts

3.70. Control Gestures

3.71. Upflick

3.72. Downflick

3.73. Double Tap

3.74. Aerobic Maneuvers

3.75. Helicopter Mode

3.76. Hover Mode

3.77. Looping Mode

3.78. Circle Mode

3.79. Stunts

3.80. Control Gestures

3.81. Upflick

3.82. Downflick

3.83. Double Tap

3.84. Aerobic Maneuvers

3.85. Helicopter Mode

3.86. Hover Mode

3.87. Looping Mode

3.88. Circle Mode

3.89. Stunts

3.90. Control Gestures

3.91. Upflick

3.92. Downflick

3.93. Double Tap

3.94. Aerobic Maneuvers

3.95. Helicopter Mode

3.96. Hover Mode

3.97. Looping Mode

3.98. Circle Mode

3.99. Stunts

3.100. Control Gestures

3.101. Upflick

3.102. Downflick

3.103. Double Tap

3.104. Aerobic Maneuvers

3.105. Helicopter Mode

3.106. Hover Mode

3.107. Looping Mode

3.108. Circle Mode

3.109. Stunts

3.110. Control Gestures

3.111. Upflick

3.112. Downflick

3.113. Double Tap

3.114. Aerobic Maneuvers

3.115. Helicopter Mode

3.116. Hover Mode

3.117. Looping Mode

3.118. Circle Mode

3.119. Stunts

3.120. Control Gestures

3.121. Upflick

3.122. Downflick

3.123. Double Tap

3.124. Aerobic Maneuvers

3.125. Helicopter Mode

3.126. Hover Mode

3.127. Looping Mode

3.128. Circle Mode

3.129. Stunts

3.130. Control Gestures

3.131. Upflick

3.132. Downflick

3.133. Double Tap

3.134. Aerobic Maneuvers

3.135. Helicopter Mode

3.136. Hover Mode

3.137. Looping Mode

3.138. Circle Mode

3.139. Stunts

3.140. Control Gestures

3.141. Upflick

3.142. Downflick

3.143. Double Tap

3.144. Aerobic Maneuvers

3.145. Helicopter Mode

3.146. Hover Mode

3.147. Looping Mode

3.148. Circle Mode

3.149. Stunts

3.150. Control Gestures

3.151. Upflick

3.152. Downflick

3.153. Double Tap

3.154. Aerobic Maneuvers

3.155. Helicopter Mode

3.156. Hover Mode

3.157. Looping Mode

3.158. Circle Mode

3.159. Stunts

3.160. Control Gestures

3.161. Upflick

3.162. Downflick

3.163. Double Tap

3.164. Aerobic Maneuvers

3.4.4. Start

Hold the aircraft in one hand and the smartphone in the other hand. To start the aircraft, tap the start button, and gently push the airplane forward at the start signal of the app. In buildings, you should start in helicopter mode and throw the aircraft forward very gently / slowly at a 45 ° angle. Make sure in any case that there is enough space available for your first takeoffs!

3.5. Flight

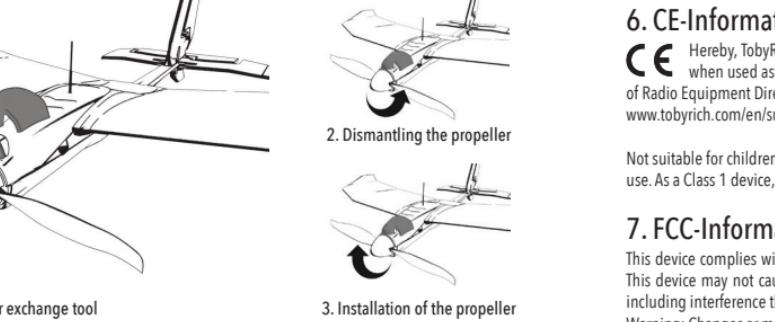
Always choose a wide open area for the flight with your SmartPlane Pro. Ideal would be to fly on a designated airfield. If this is not the case, do not allow the aircraft to fly near houses, trees, pipes, waterways and building structures. Flights should also be avoided in areas where many people are present, e.g. in busy parks, on school yards or football pitches. Find out about local laws and regulations before you choose a place for your flight.
If there is a problem in flight, or if you are unsure about the flight, just use your finger to turn off the engine completely. Also, tilt the smartphone all the way to the right or left to get a sharp curve in the respective direction. Through these measures, the SmartPlane PRO will begin to drop at maximum speed in a spiral.

3.6. Switch off

To turn off the airplane, remove the battery from the aircraft.

3.7. Replace propeller

To change the propeller, insert the supplied propeller exchange tool into the gap between the propeller and the aircraft body and push it down firmly with the thumb. Embrace the aircraft while doing this so that the propeller is free to rotate. To release it, turn it counter-clockwise until it has come off the plane. Then insert the replacement propeller onto the engine-axis and turn it clockwise until it presses the replacement tool slightly against the aircraft body. Then remove the replacement tool again. It is important to slightly clamp the plate of the replacement tool. The gap between the propeller and the aircraft must be set exactly to ensure proper functioning and durability. A video tutorial is available at: www.tobyrich.com/support.



3.8. Bluetooth connection

Note: The Bluetooth connection can be interrupted outside a distance of 100 meters. Avoid this condition. The app warns you acoustically before reaching the maximum range. Turn around no later than at this time. In the case of loss of connection, an emergency stop of the aircraft is carried out and it glides to the ground.

4. Warnings and specifications for the battery

The SmartPlane Pro is equipped with a lithium polymer battery (LiPo).

Caution: All instructions and warnings must be followed strictly. Failure to handle LiPo batteries correctly can result in fire, personal injury and / or property damage.

- » Do not modify the battery.
- » Do not use or store the SmartPlane Pro or the battery near a source of heat, such as a fire or heating.
- » Do not throw or hit the SmartPlane Pro or the battery against a hard surface.
- » Use only the included charger to recharge the battery.

Important: Charge the battery at least every 3 months.

5. Disposal of waste electrical and electronic equipment in the European Union



Disposal of electrical and electronic equipment and components

This product contains rechargeable batteries. In the interest of protecting the environment, please do not dispose of the product with its battery in the household waste at the end of its useful life. Disposal can take place at approved recycling or disposing locations in accordance with the local regulation.

6. CE-Information

CE hereby, TobyRich GmbH, D-28217 Bremen declares that the device SmartPlane Pro (SPPR01-017) when used as intended, is in compliance with the basic requirements and other relevant provisions of Radio Equipment Directive (RED) 2014/53/EU. The declaration of conformity can be found on the Internet at www.tobyrich.com/en/support/doc.

The app crashes.
1. Verify that you have uploaded the latest version of your Android or iOS operating system.
2. Delete the SmartPlane PRO app and download the app again.
3. Restart your smartphone.
4. Turn Bluetooth off once and then on again. Turn off the wireless LAN, too.

The battery does not charge.

- 1. Always ensure that the battery is fully charged at least every 3 months. Failure to do so may result in permanent damage to the battery. In this case, it must be replaced. You can get a replacement battery at www.tobyrich.com
- 2. Plug the battery charger into another USB port. Some computers turn off the USB ports when they are inactive. Also ensure that the socket adapter is functional.
- 3. Check whether the LiPo battery is correctly inserted into the battery charger. In case of doubt, check out our tutorials at www.tobyrich.com/support/an.

Something is broken.

- 1. Parts of the fuselage, wing and tailplane can be repaired using commercially available EPP adhesives. Follow the instructions given by the adhesive manufacturers when doing so.
- 2. Parts made of hard plastic can usually be repaired with superglue.

Caution: Never glue parts of the propeller! Replace the propeller immediately in case of a defect! (See chapter 3.7).
Note: Also be careful with the use of glue near the rudder hinges. These must not be glued, since in this case the aircraft is no longer airworthy.

For additional troubleshooting information, please visit www.tobyrich.com/support

9. Warranty

For information about warranty conditions, refer to the general terms and conditions of the retailer where you purchased the SmartPlane Pro.

Keep the receipt safe as a purchase receipt! The warranty for all products is limited to the countries in which the product was originally offered. You can find the conditions of the worldwide warranty under www.tobyrich.com/en/support/warranty.

Keep these instructions in a safe place as they contain important information.

Questions? Assistance? Problems?

Under www.tobyrich.com/en/support you can get assistance!

support@tobyrich.com

www.tobyrich.com

SmartPlane Pro

app controlled stunt & racing plane



Instruction manual

- English -

www.tobyrich.com

 TobyRich