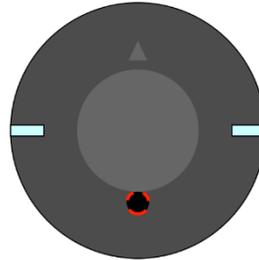




Flight control options and tutorials

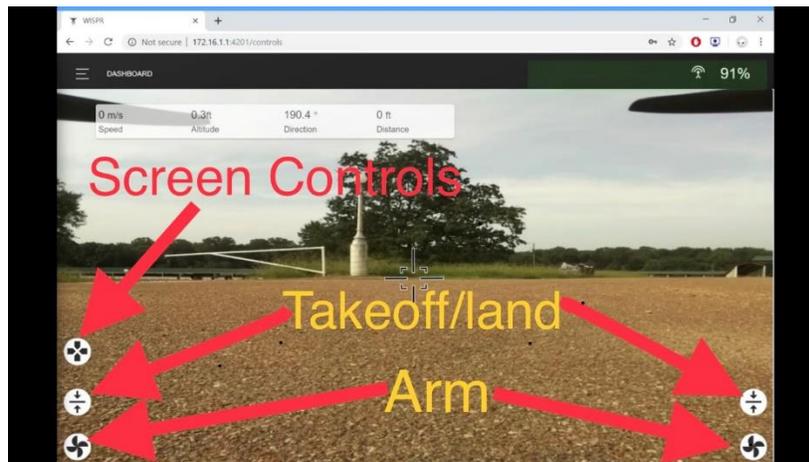
Flight control options for WISPr Systems drones

1. WISPr System's drones can be controlled via analog controller, keyboard or touch screen controls.
2. To use the analog hand controller, plug in the usb into a laptop or tablet.
3. If using custom tablet Bluetooth hand controller, connect Bluetooth from tablet to hand controller.



Reference to front of drone

4. The arrow on the GPS points to the front of the aircraft.



Connect touchscreen

5. After agreeing to the safety protocols a screen will appear informing the user to select a controller, select the "fly with touchscreen" option.

Initialize (touchscreen)

6. Press and hold the right and left thumbs on the right and left side of the touchscreen at the same time to initialize the touchscreen.

Arm motors (touchscreen)

7. Press and hold the right and left arming buttons at the same time to arm the drone's Motors, these buttons look like fans.
8. The arming buttons look like fans and are located on the bottom left and right of the screen.

Take-off (touchscreen)

9. Press and hold the right and left takeoff/land buttons at the same time to take-off the drone.
10. The takeoff/land buttons are located on the bottom right and left of the screen and are right above the arming buttons.



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Use touchscreen controls (touchscreen)

11. Click the button on the bottom left above the arm and takeoff/land buttons that looks like a cross for touch screen controls to show up on the screen, then you are ready to operate the drone with touchscreen controls.

Vertically ascend (touchscreen)

12. Slide your finger in a forward position on the right side of the screen to gain altitude.

Vertical descend (touchscreen)

13. Slide your finger in a downward position on the right side of the screen to decrease in altitude.

Rotate horizontally clockwise (touchscreen)

14. Slide your finger in a rightward position on the right side of the screen to rotate clockwise.

Rotate horizontally counterclockwise (touchscreen)

15. Slide your finger in a leftward position on the right side of the screen to rotate counterclockwise.

Forward horizontal movement (touchscreen)

16. Slide your finger in a forward position on the left side of the screen to move the drone forward horizontally.

Backwards horizontal movement (touchscreen)

17. Slide your finger in a downward position on the left side of the screen to move the drone in a backwards horizontally.

Starboard horizontal movements (touchscreen)

18. Slide your finger in a rightward position on the left side of the screen to move the drone in a starboard direction horizontally.

Port horizontal movements (touchscreen)

19. Slide your finger in a leftward position on the left side of the screen to move the drone in a port direction horizontally.

Landing (touchscreen)

20. Press and hold the right and left takeoff/land buttons at the same time to automatically land the drone.
21. If you bring the drone lower than 3 feet, it will land automatically due to the geofence.
22. Make sure the drone is landing in a safe and level area before landing.



Connect hand controller

23. After agreeing to the safety protocols a screen will appear informing the user to select a controller.

Initialize (hand controls)

24. Initially the hand controller won't appear as an option, press any button on the hand controller to allow the WISPr OS to show the hand controller option.

25. Once hand controller appears, select "fly with hand controller" to begin initialization.

Initialize (hand controls)

26. Press and hold the right and left trigger buttons at the same time to initialize hand controller.

Arm motors (hand controls)

27. Press and hold the right and left bumper buttons at the same time to arm the drone's Motors.

Take-off (hand controls)

28. Press and hold the right and left trigger buttons at the same time to take-off the drone.

Vertically gain altitude (hand controls)

29. Press the right joystick in a forward position for the drone to gain altitude.

Vertical decrease altitude (hand controls)

30. Press the right joystick in a backwards position for the drone to decrease in altitude.

Rotate horizontally clockwise (hand controls)

31. Press the right joystick in a rightward position for the drone to rotate clockwise.

Rotate horizontally counterclockwise (hand controls)

32. Press the right joystick in a leftward position for the drone to rotate counterclockwise.

Forward horizontal movement (hand controls)

33. Press the left joystick forward to move the drone forward horizontally.

Backwards horizontal movement (hand controls)

34. Press the left joystick backwards to move the drone backwards horizontally.

Starboard horizontal movements (hand controls)

35. Press the left joystick rightwards to move the drone in a starboard direction horizontally.

Port horizontal movements (hand controls)

36. Press the left joystick leftwards to move the drone in a port direction horizontally.



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Landing (hand controls)

- 37. Press and hold the right and left trigger buttons to automatically land the drone.*
- 38. If you bring the drone lower than 3 feet, it will land automatically due to the geofence.*
- 39. Make sure the drone is landing in a safe and level area before landing.*

Kill switch controls (hand controls)

- 40. Press the start and back button on the hand controller to kill all power to the motors in case of emergency. Use at your own discretion.*



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Connect keyboard

41. After agreeing to the safety protocols a screen will appear informing the user to select a controller, select the “fly with keyboard” option.

Initialize (keyboard)

42. Press and hold the right and left shift keys at the same time to initialize keyboard.

Arm motors (keyboard)

43. Press and hold the right and left “ctl\” keys at the same time to arm the drone’s Motors.

Take-off (keyboard)

44. Press and hold the right and left shift keys at the same time to take-off the drone.

Vertically gain altitude (keyboard)

45. Press the up-arrow key to gain altitude.

Vertical decrease altitude (keyboard)

46. Press the down-arrow key to decrease in altitude.

Rotate horizontally clockwise (keyboard)

47. Press the right-arrow key to rotate clockwise.

Rotate horizontally counterclockwise (keyboard)

48. Press the left-arrow key to rotate counterclockwise.

Forward horizontal movement (keyboard)

49. Press the “w” key to move the drone forward horizontally.

Backwards horizontal movement (keyboard)

50. Press the “s” key to move the drone backwards horizontally.

Starboard horizontal movements (keyboard)

51. Press the “d” key to move the drone in a starboard direction horizontally.

Port horizontal movements (keyboard)

52. Press the “a” key to move the drone in a port direction horizontally.

Landing (keyboard)

53. Press and hold the right and left shift keys to automatically land the drone.

54. If you bring the drone lower than 3 feet, it will land automatically due to the geofence.

55. Make sure the drone is landing in a safe and level area before landing.

Kill switch (keyboard)

56. To use the kill switch, hold the backspace key and the ~ key at the same time, to kill all power to the motors in case of emergency. Use at your own discretion.