Skydio X2D Return Behaviors User Manual

Contents

Skydio X2D Return Behaviors

Product Information

Specifications

- Product Name: Skydio X2D
- Return Behaviors: Yes
- Obstacle Avoidance Setting: Retained during return
- Daylight Navigation: Supported
- Return Speed Options: Available
- Return Height Adjustment: Yes
- Lost Connection Behavior: Customizable

Product Usage Instructions

Setting Return Behaviors

1. Select settings.
2. Select the Drone tab.
3. Select Return Behavior.
4. Select Return Type to set navigation environments for flights during daylight.
5. Select Return Height for good visual navigation towards the ground.
6. Select Return Behavior.
7. Select Drone Looks while flying to the return destination.
8. Set the return speed.
9. Select Lost Connection to choose how you want X2D to behave if the signal to your controlling device is lost.

Warning: It is crucial to set the return behaviors and lost connection behavior before launch to avoid issues with RF interference.

Frequently Asked Questions

Why is it important to set return behaviors before flight?

Setting return behaviors ensures that the drone knows how to navigate back to its designated landing spot safely and efficiently.

Can I adjust the return speed of the Skydio X2D?

Yes, you can set the return speed according to your preferences to control how quickly or slowly the drone returns.

What should I do if I encounter RF interference during a flight?

If you encounter RF interference, having set the return behaviors and lost connection behavior beforehand will help the drone respond appropriately, such as maintaining a loiter time to avoid being an easy target.

For detailed instructions:

Skydio X2D Return Behaviors
For best results set return behaviors pre-flight. Identify a clear, level surface where you want your X2D to land. Skydio X2D will retain its current obstacle avoidance setting while returning.

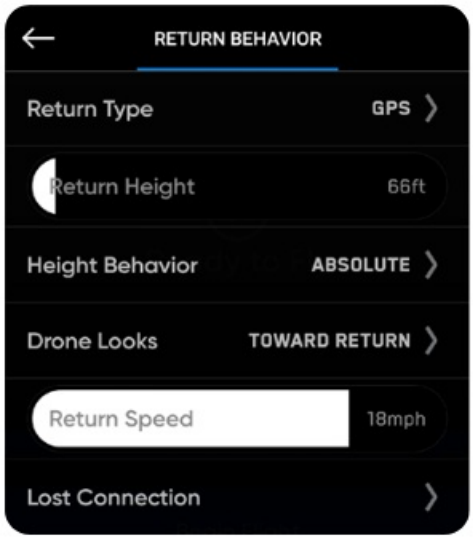
Set the Return Behaviors:

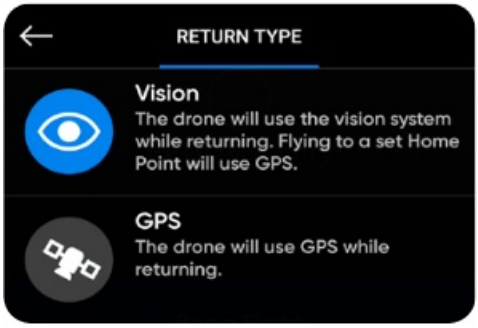
- Step 1 – Select

  settings
- Step 2 – Select the Drone tab
- Step 3 – Select Return Behavior
- Step 4 – Select Return Type to set navigation:
  Set to VISION for GPS degraded/jammed environments for flights during daylight
- Step 5 – Select Return Height
  - • Set to at least 30 meters to avoid detection
    • X2D needs to be close enough to the ground for good visual navigation
- Step 6 – Select Return Behavior
  - Set to RELATIVE for alternating terrain
- Step 7 – Select Drone Looks while flying to the return destination

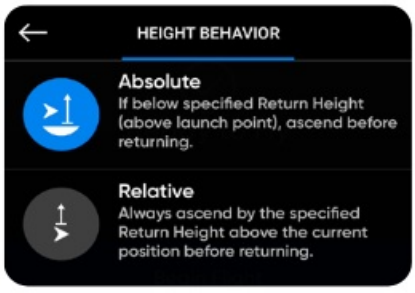
  WARNING: It is important that you set the return behaviors and lost connection behavior before launch, in the event that you encounter any RF interference.

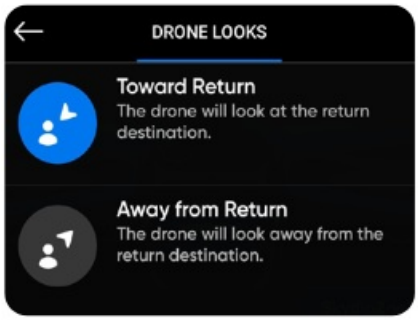


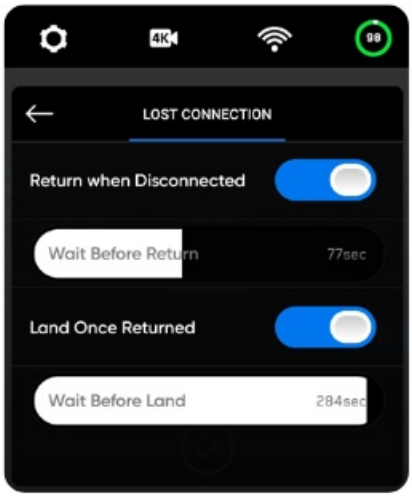


Set to AWAY from Return to track enemy behavior on the return trip

- Step 8 – set the return speed
  Set return speed to 10 m/s
- Step 9 – Select Lost Connection to choose how your want X2D to behave if the signal to your controlling device is lost:
  - Toggle ON Return when Disconnected
  - Set Wait Before Return to 5 seconds – a low loiter time means X2D is moving so that it is not an easy target
  - Toggle ON Land Once Returned
  - Set Wait Before Land to 135 seconds







Documents / Resources

	Skydio X2D Return Behaviors [pdf] User Manual X2D Return Behaviors, Return Behaviors, Behaviors

References

- User Manual