



Getting Started



R47-ATO-IP-deck2-4.3.26



What You'll Learn

01

Safety

Identify and understand safe practices when flying your Skydio X10D

02

Hardware Overview

Introduce the Skydio X10D hardware components, including controller

03

System Setup

Prepare your Skydio X10D system for use with radio pairing

04

Fleet Manager for Offline Drones

Manage drones and users across your organization with single dashboard

05

Before you Fly

Prepare your Skydio X10D for flight with a series of hardware and software checks

06

Paraverse

Create and fly an X10D simulator.

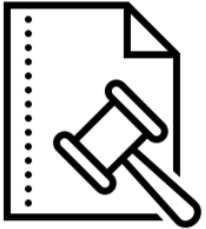


01

Safety Guidelines

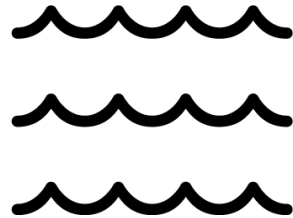


Safety | Regulations & Equipment



Regulations

Follow all federal guidelines, and local and state regulations.



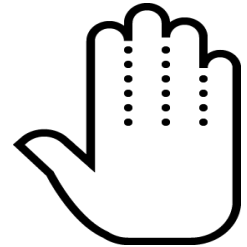
Open Water

If flying over water, ensure your drone has a strong GPS signal. Launch and land over a dry surface.



Precipitation

Skydio X10D can fly in light to moderate precipitation with obstacle avoidance disabled.

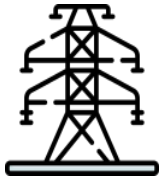


Propellers

Keep fingers away from moving propellers at all times.



Safety | Obstacle Avoidance



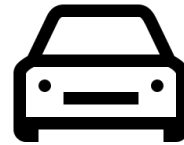
Electrical Wires

Beware of thin hanging wires, or wires secured to poles .5 inch.



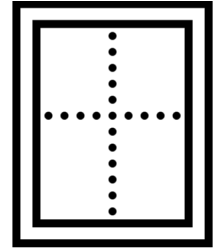
GPS Only Flight

OA is off during Low Light flight mode and can be impaired when in low light and poor visibility.



Moving Objects

Skydio X10D does not avoid moving objects.



Reflection

Avoid large transparent or reflective surfaces larger than 23 inches.



02

Hardware Overview



Hardware Overview | Skydio X10D

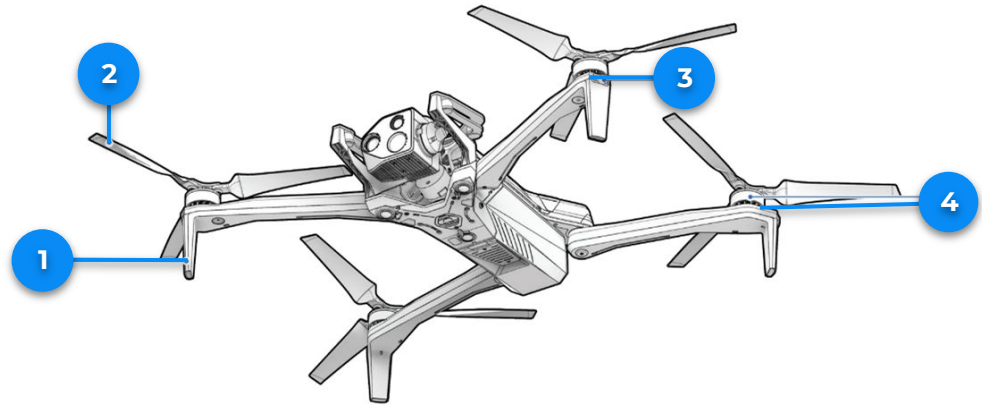
- **C2** | Skydio Connect SL or Skydio Connect MH
- **Flight Time** | 40 minutes (ideal conditions)
- **Service Ceiling** | 15,000 ft DA
- **Max Wind Tolerance** | 28 mph (24 kts)
- **Weight** | <5 lbs (w/battery, no attachments)





Hardware Overview | Skydio X10D

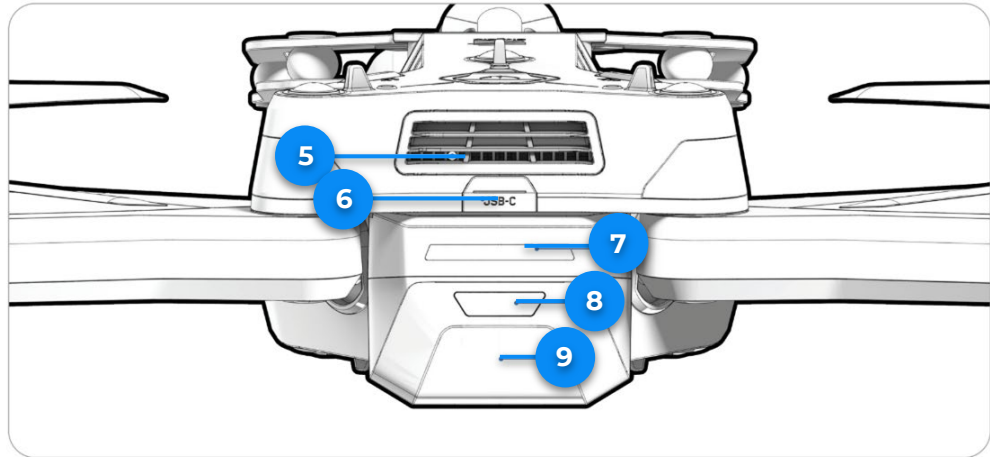
1. Landing feet/antennas
2. Propeller blades
3. RGB/Strobe/IR lights
4. Motors





Hardware Overview | Skydio X10D

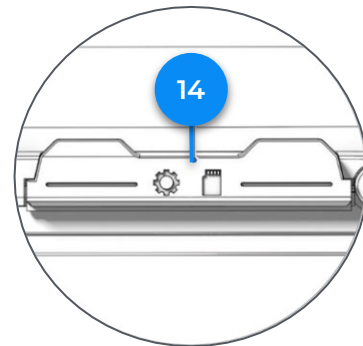
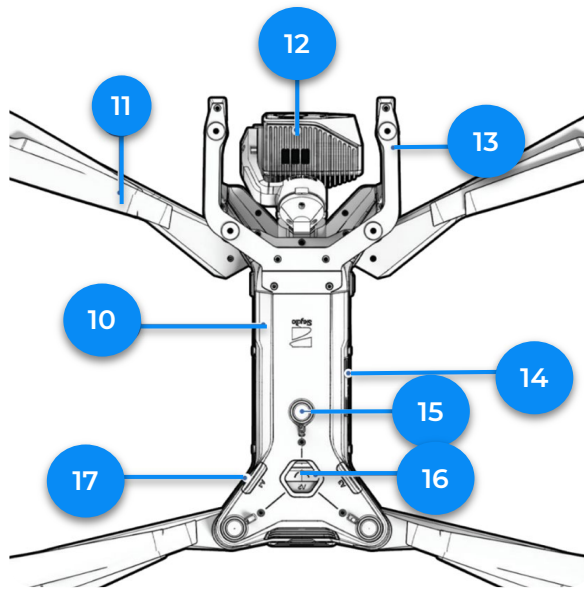
- 5. Air Outlet
- 6. Rear USB-C Port
- 7. Battery lights
- 8. Power button
- 9. Battery





Hardware Overview | Skydio X10D

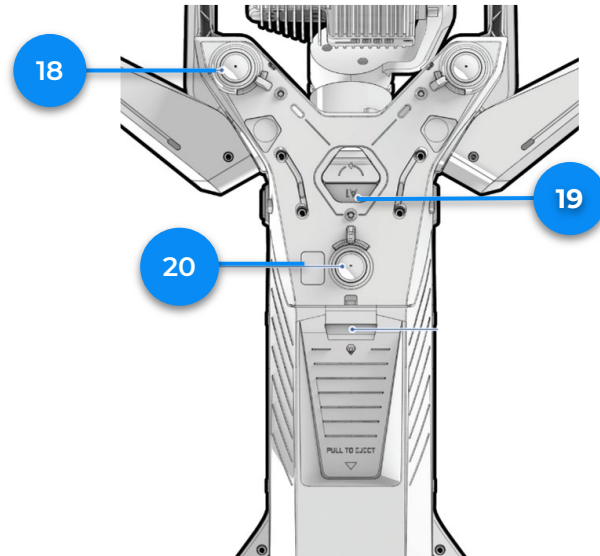
- 10. Chassis
- 11. Arm (4)
- 12. Sensor Package
- 13. Sensor Package Frame
- 14. Log and Media card slots (2)
- 15. Top navigation cameras (3)
- 16. Top attachment bay (A2)
- 17. Side attachment bay (A3, A4)





Hardware Overview | Skydio X10D

- 18. Bottom navigation cameras (3)
- 19. Bottom attachment bay (A1)
- 20. Time of flight sensor





Hardware Overview | Skydio X10D Controller

- Lightweight, ruggedized, weather resistant
- Button mapping for pilot preference
- USB-C + HDMI-out
- 5 hours operational time (can charge while flying)
- Built-in antenna
- Max Brightness | 1750 nits





Hardware Overview | NightSense

- Provides 360° obstacle avoidance at night or in dark spaces
- Visible & Infrared options
- IR NS strobes at the Nav Cam framerate to reduce impact to flight time
- Mounted on top and bottom of X10
- Must toggle on Low Light mode to use





Hardware Overview | Spotlight

- High-powered spotlight (5500 lumens)
- Can tilt up to +/- 90 degrees (adjust on the ground)
- Cannot adjust angle in flight
- Identify people up to 500 ft (150 m) away
- Can be hot to the touch after prolonged usage





Hardware Overview | Speaker

- Broadcast pre-recorded messages/sounds from X10 in flight
- 105 dB at 3 ft (1 m)
- Effective range = 500 ft (150 m)
- Record or import multiple audio files
- Ideal positioning
 - Tilt to ~45
 - 130 ft (40 m) above
 - 164 ft (50 m) away





Hardware Overview | Dropper

- Carry and precisely release lightweight items (<385g/.8 lbs)
- Must be mounted on the **left** side of the aircraft
- Do not operate the Dropper attachment in precipitation
- Ideal for emergency response (SAR, water patrol, more)

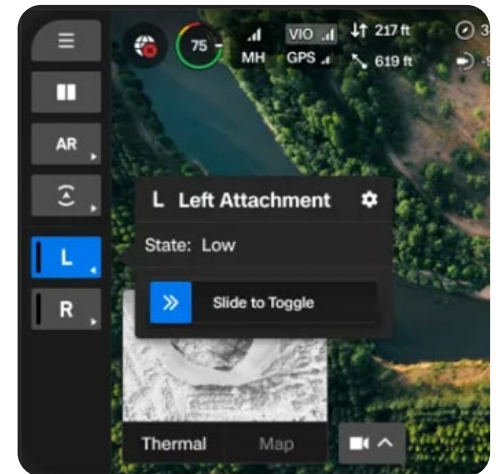
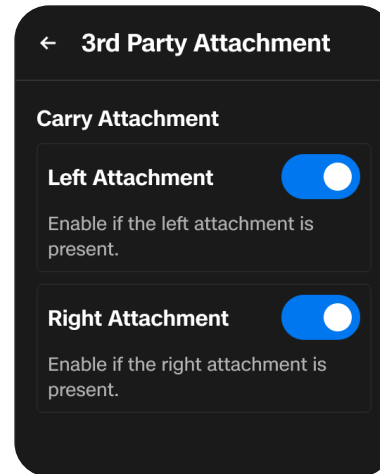




Hardware Overview | 3rd Party Attachments

Microhard (MH) Radio Only*

- Integrate custom attachments
- **Carry Mode** | non-powered payloads
- **Power Mode** | USB-connected attachment
- Actuate powered attachments
- Integrate and optimize external radios



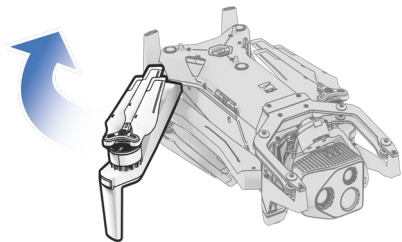


03

System Setup

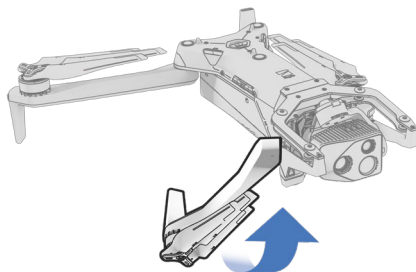


System Setup | Assembly



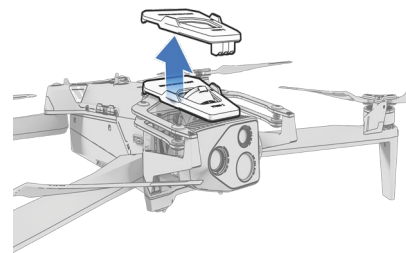
Unfold Rear Arms

Unfold rear arms toward the rear of the drone.



Unfold Front Arms

Unfold front arms forward and down towards the sensor package.

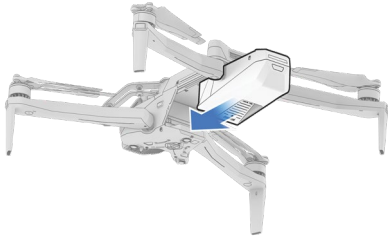


Remove Sensor Lock

Remove the sensor package lock before power up by pulling upward while bracing the sensor until it's free.

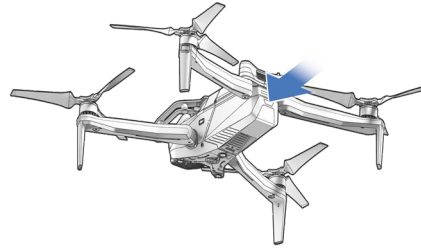


System Setup | Power On



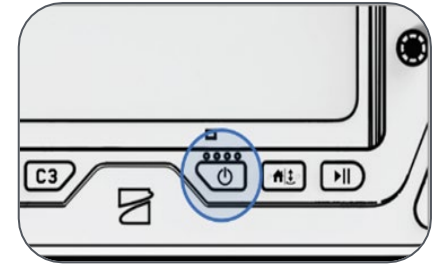
Insert Battery

Ensure a full charge, insert battery using guide rails.



Power On Drone

Press and hold battery button for 3 seconds.



Power on Controller

Press and hold power button for 5 seconds.



System Setup | Logging In (Non-WiFi Enabled)

Select your language when first powering on

- English | Spanish | Ukrainian
- Can change language later by going to Global Settings > Information > Language

Set a controller password

- Skydio does not store controller passwords





System Setup | Logging In (WiFi-Enabled)

- Enter the email associated with your Fleet Manager for Offline Drones
- Enter the 6 digit code sent to that email
- Create a PIN for your controller profile
 - Used for changing user profiles

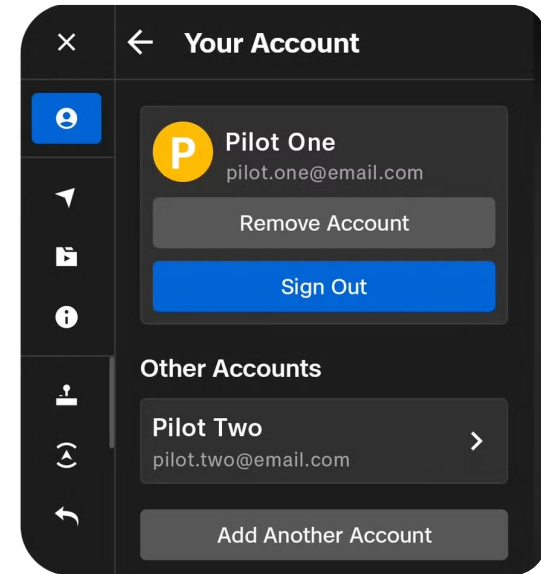
A dark-themed mobile app screen for entering a code. At the top left is a back arrow icon. The text reads: "Enter the code you received at you@email.com". Below this is a text input field with the placeholder "Enter your code". At the bottom are two buttons: "Resend Code" (grey) and "Next" (blue).

A dark-themed mobile app screen for setting a PIN. The title is "Set PIN". Below it, the text reads: "Create a personal 6-digit code to sign in to this controller". There is a text input field with a toggle icon on the right. At the bottom are two buttons: "Cancel" (grey) and "Next" (blue).



System Setup | User Profiles (WiFi-Enabled)

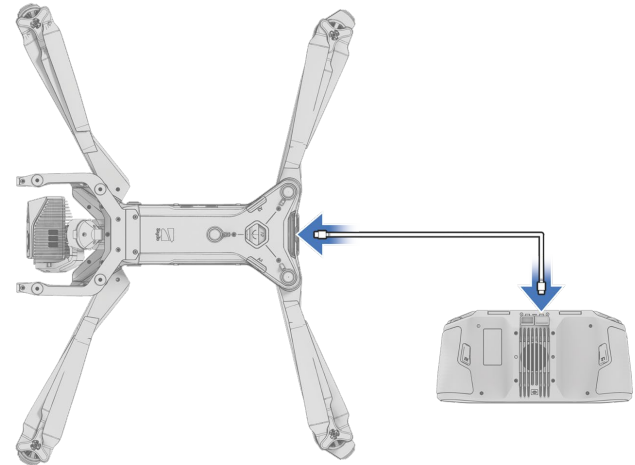
- Global Settings > Select Your Account > Add Another Account
- Enter email associated with your Skydio Cloud account
- Enter the 6 digit code sent to that email
- Create a PIN to easily switch between profiles





System Setup | Pairing

- Pairing binds aircraft and controller
- Insert USB-C cable into controller and drone (rear port)
- Pairing channel is auto selected when USB-C cable is attached
- Can pair many aircraft to a single controller
- Must disconnect USB-C cable from aircraft before flight





Practical Application

Assemble, Power On, Log In, Pair



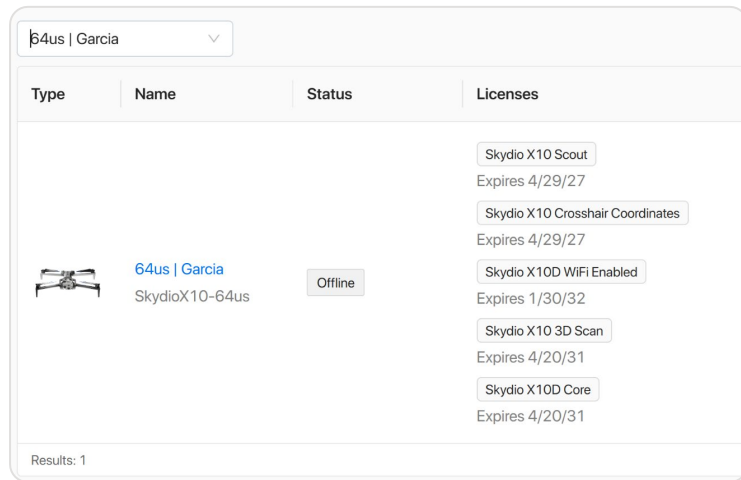
04

Skydio Fleet Manager For Offline Drones



Skydio Fleet Manager for Offline Drones | Overview

- Manage your fleet and operators via Skydio Offline Cloud Portal
- Keep your drone up to date and review support resources
- Securely maintain inventory of your equipment
- Self-serve application of software updates
- Contact support and issue feedback as needed





Skydio Fleet Manager for Offline Drones | Invite Users

- Org Admins must add their pilots and assign roles/permissions
 - **Organization Admin** | Manage system level settings (fleet, settings, users, integrations, etc...)
 - **Remote Pilot** | Required to fly over cellular connectivity, can plan and run missions
 - **Cloud User** | View data and run reports
 - **Pilot** | No access.

Add User [X]

Email *

Add emails separated by commas

Expiration ⓘ

Select date

Role

Cloud User

Group

Select groups

Add Role

Cancel Add User



Skydio Fleet Manager for Offline Drones | Claim Devices

- Only Org Admins can claim devices
- Claim devices individually or bulk upload via .CSV
- Devices must be added in order to produce software updates

Claim Devices

Device Name:

eg. Skydio2-xxxx, Q52Axxxxxxxxxx

+ Add Device

⬇ Import Devices

Claim Devices



Skydio Fleet Manager for Offline Drones | Manage Software Licenses

- Software licenses must be applied to eligible drones
- Settings > Licenses
- Apply/move licenses to any drone in your fleet
- Must generate, download, and install update to apply the features

Type	Purchased	Assigned	Unassigned	Expiration	Actions
Skydio X10 NightSense	5	0	5	10/5/26	 
Skydio X10 Tower Capture	5	0	5	10/5/26	 
Skydio X10 Dynamic Mode	5	0	5	10/5/26	 
Skydio X10 Crosshair Coordinates	5	0	5	10/5/26	 
Skydio X10 Scout	5	0	5	10/5/26	 
Skydio X10 3D Capture	5	0	5	10/5/26	 



Skydio Fleet Manager for Offline Drones | Flight Settings

- Establishes default settings for all aircraft in your fleet
- Customize default settings org-wide
 - Flight Controls
 - Lighting
 - Return Behavior & Lost Connection
- Must generate a Configurations Only update and apply to the aircraft

Flight Settings
Customize default flight settings for all flights in your organization

Docked X10 Non-Docked X10 [Restore Skydio Defaults](#)

Enable Flight Policy
When enabled, in flight settings will reset to the defaults shown below the next time a drone is not flying or preparing to fly. Changes can be applied immediately by manually syncing Cloud Settings when drone is not in flight. ☐

Flight Controls

Height Ceiling (Default: Enabled)
Maximum allowed height above launch (ftAL) 10 ft 1500 ft 400 ft ☐

Weak GPS Altitude Limit
Enables a flight altitude limit when GPS is weak ☐

Lighting

RGB Lighting (Default: Enabled)
Colored LED lights on the drone [Navigation \(Default\)](#) ☐

Additional Lighting

Return Behavior

Return Speed 4 mph 30 mph 11 mph

Return Path
Up and Over will fly directly to the return point at the height specified below. Backtrack returns using the previously specified path.



Practical Application

Log in, Add users, Claim devices, Apply flight settings



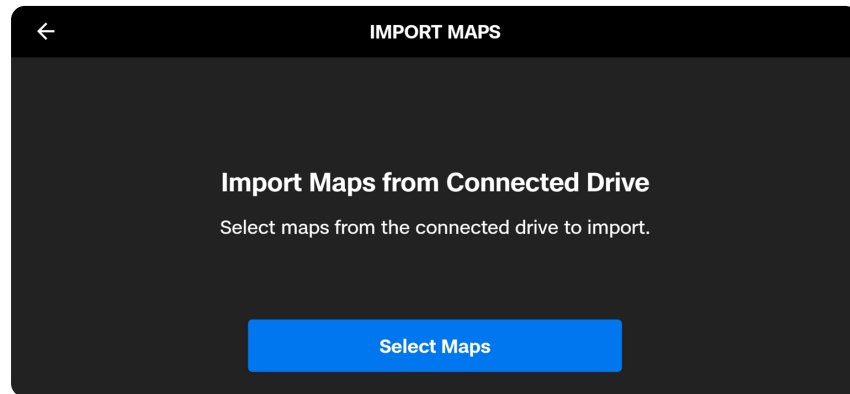
05

Before You Fly



Before You Fly | Importing Maps (Non-WiFi Enabled)

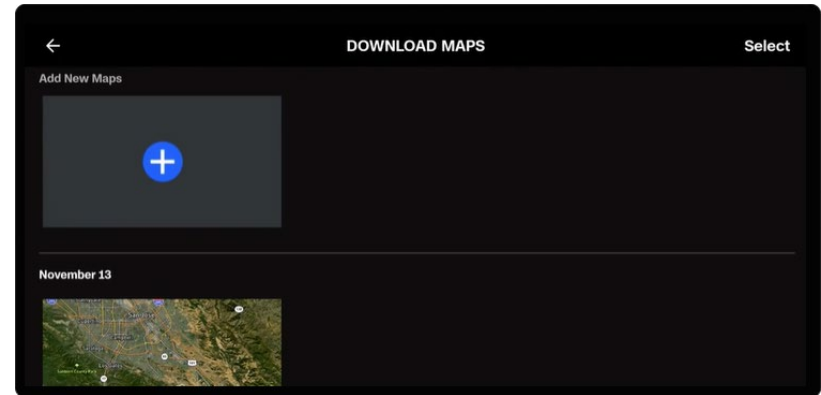
- Maps are not required to fly, but improve SA
- Drone can still navigate without maps, your GPS Skills still work
- Must be **.mbtiles** format
- View and manage maps in Map Library





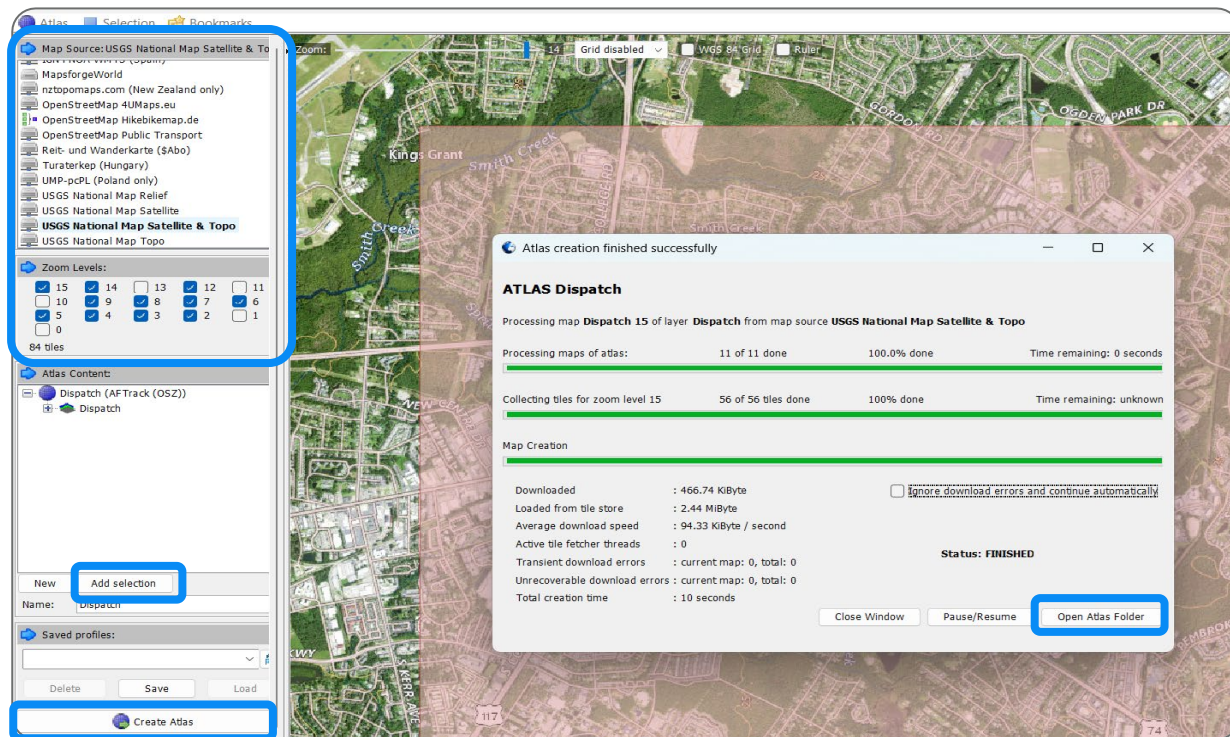
Before You Fly | Importing Maps (WiFi Enabled)

- Connect controller to Wifi
- Navigate to **Info > Download maps**
- Adjust map centerpoint
- 3.5 mile x 3.5 mile area downloaded
- Disable Wifi when complete (as needed)





Before You Fly | Importing Maps

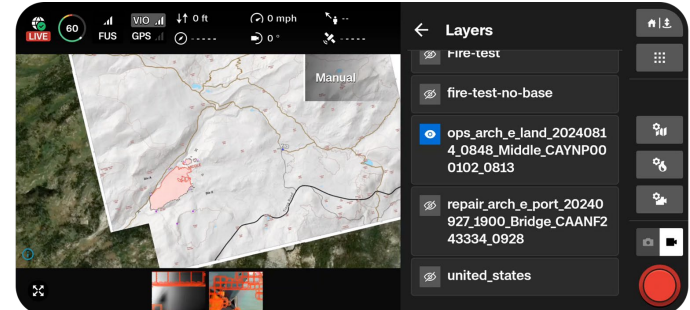
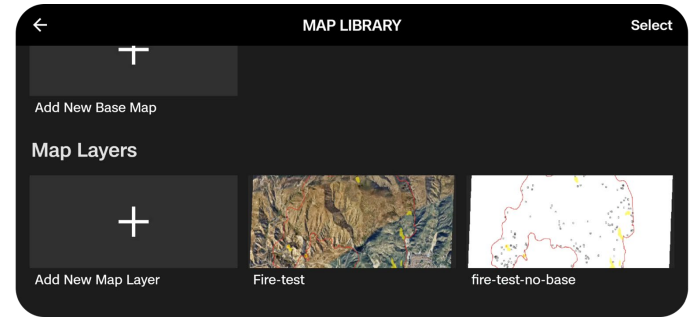




Before You Fly | Importing Map Layers

Microhard (MH) Radio Only*

- Import KML/KMZ, GeoJSON, GeoTIFF, or GeoPDF files
- Allows pilots to use standardized map layers when participating in emergency response ops
- Choose which layers are displayed at any point throughout the flight





Before You Fly | Digital Terrain Elevation Data (DTED)

- Skydio X10D uses DTED to display coordinates for sensor crosshairs (not for navigation)
- Can use [USGS.gov](https://www.usgs.gov) to download DTED information
- Only accepts DTED level 2
- Load DTED onto media card, insert, and power on the drone
- Select Media menu in Global Settings to force X10D to ingest DTED





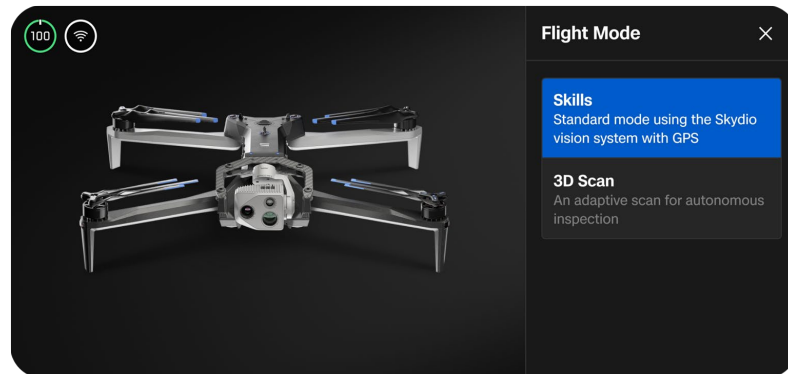
Practical Application

Download & Import Maps, Map Layers and DTED



Before You Fly | Flight Mode

- Choose the appropriate flight mode for the mission
 - **Skills** | Use for standard flight mode
 - **3D Scan** | Use for autonomous scanning/Mapping missions
- Flight modes persistent through flights and power cycles

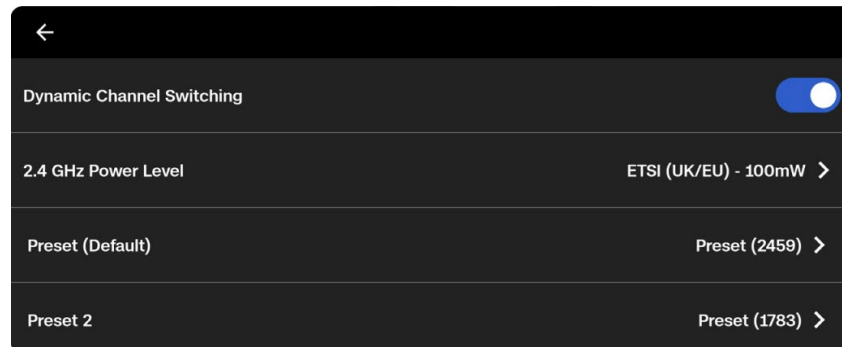




Before You Fly | Radio Frequency Selection

Microhard (MH) Radio Only*

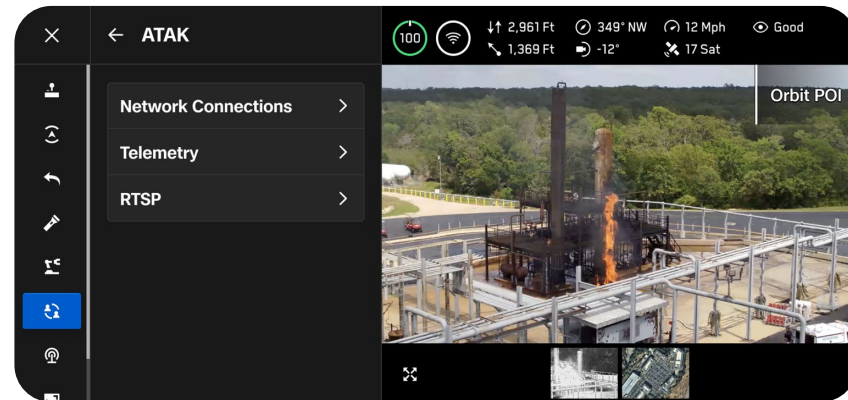
- Enable Dynamic Channel Switching prior to flight
 - Auto channel switching during link loss
 - Allows manual channel switching in flight
- **Verify radio power output and adjust to approved levels**
- Select 6 radio channel presets prior to flight
- Maintain 10 channel separation when operating near other aircraft





Before You Fly | ATAK

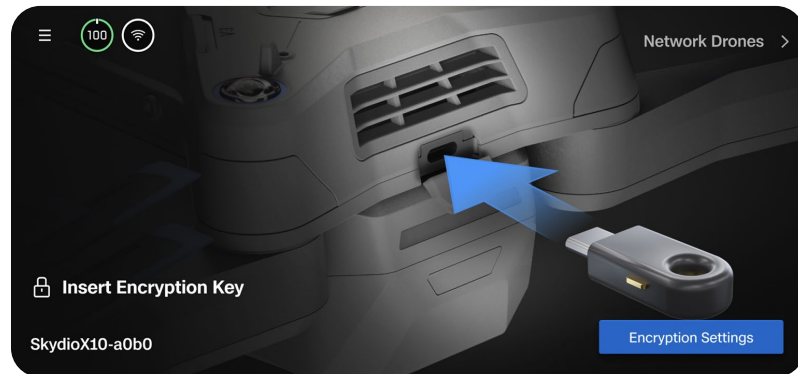
- Enable live stream using internal or external RTSP server
- Add and manage multiple TAK servers
- Publish telemetry including position and call sign
- Multicast CoT shared to default multicast group





Before You Fly | Encryption

- Use the security key to create an encrypted storage area on the media card
- Inserting the security key does not encrypt media, just provides the ability
- To enable/disable, Global Settings > Information > Drone > Encryption
- Decrypt media with same encryption key





Before You Fly | Preflight Inspection

- Visually inspect hardware components for serviceability and cleanliness
- Check props, motors, chassis, arms, nav cameras
- Ensure sensor package is functional
- **Clean ALL camera lenses** (including NAV)





Practical Application

Preflight Inspection



06

Skydio Paraverse



Skydio Paraverse | Overview

- Connect to the Paraverse to fly an X10D simulator
- Requires Cloud set up
- Great tool for training and to maintain proficiency with the X10D
- Wifi-enabled controllers only





Practical Application

Create a Simulator



You Learned

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Questions

