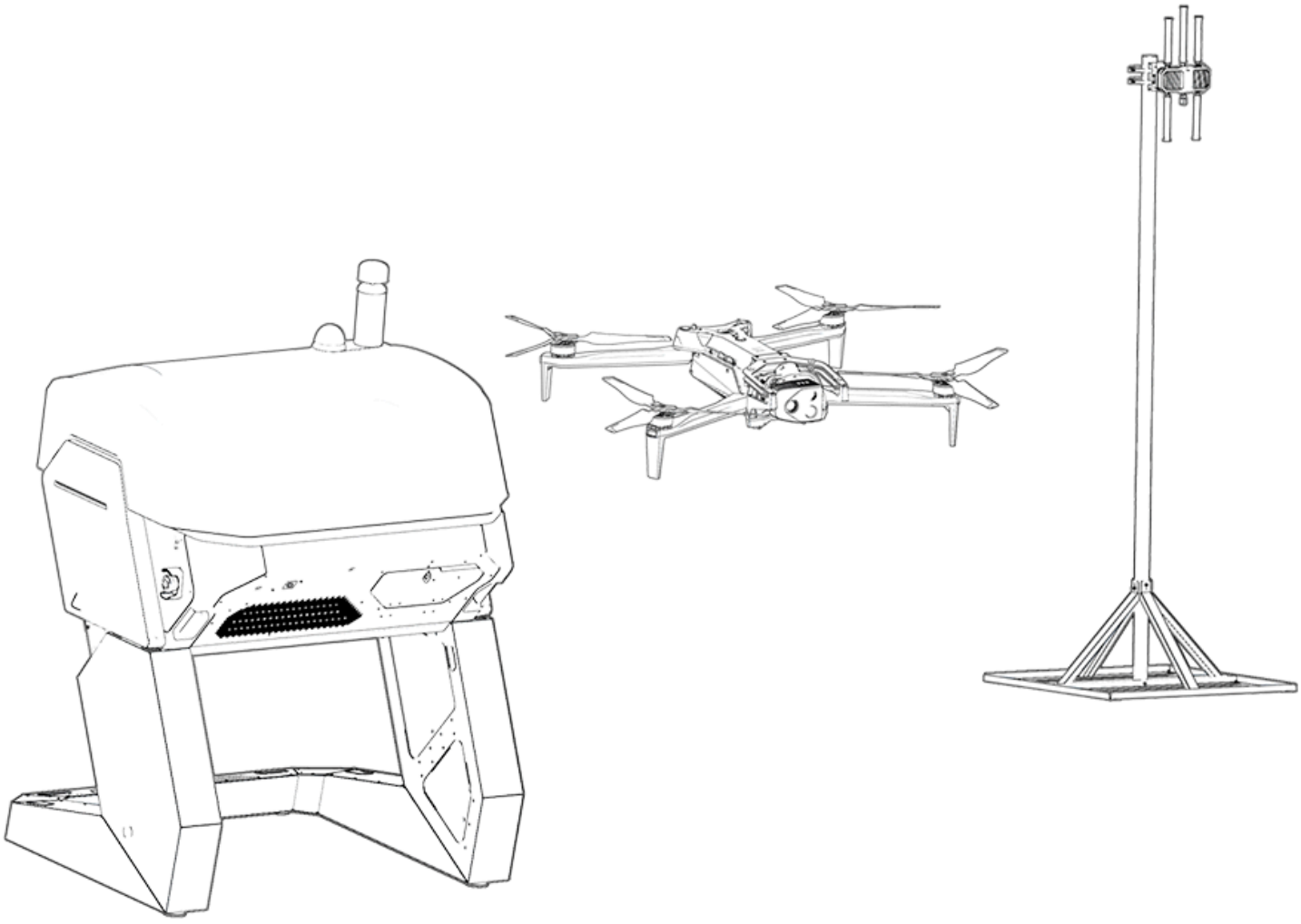
Skydio

Skydio Dock for X10
Site Readiness Manual



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Dock for X10 Site Readiness Manual

This document explains installation requirements, technical specifications, network and power provisioning, and flight-zone design for one or more Skydio Dock for X10s.

NOTICE

Follow official documentation and updates.
Failure to follow any instructions or recommendations in Skydio documentation may void the Skydio Limited Warranty or other terms and conditions.
Please read all documentation provided with the Skydio Dock for X10, including but not limited to the Dock for X10 Safety Guidelines in the Safety and Operating Guide: www.skydio.com/safety.

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Revision History

Revision	Description	Date
1	Initial Release	May 7, 2026
2	Updated layout. Removed Operating Environment sections.	May 8, 2026
2.1	Updated layout and added External Radio content.	July 27, 2026
3	Updated Computer System Requirements. Added maximum Dock platform installation specification.	August 20, 2026
3.1	Updated External Radio wind specs.	September 4, 2026
4	Added Rubber Mat specifications and Glossary. Updated Mounting Method and Dock and External Radio specifications.	October 15, 2026
4.1	Updated images and specs for ease of use and clarity.	October 20, 2026

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Dock for X10 Specifications

Technical Specifications

This section contains technical specifications for the Dock for X10.

Category	Specification / Requirement
Launch Time	20 seconds
Battery Charge Time	15% to 95% within 35 minutes at 77°F (25°C) Cooling or heating will increase overall charge time to a maximum of 73 minutes.
Power Input	100 V to 240 V (200 V to 240 V required below 32°F (0°C)) 50 to 60 Hz
Power Load	2200 W at peak load 20 A breaker for 200 V to 240 V For more information, see Peak Power by Dock State *(on page 15)*.
	1200 W for operations above 32°F (0°C) 15 A breaker for 100 V to 120 V
Input/Output	2x PoE (30 W, 48 V) 1x USB 3.0 (5 W, 5 V)
Service Life	5 years with regular service conducted annually

WARNING:

Ice accumulation when operating below 32°F (0°C) without a 200V-240V power supply. When operating below 32°F (0°C) without a 200V-240V power supply, Dock Heater functionality will be unavailable. Ice accumulation can result in degraded performance, crashes, or loss of the aircraft. For operation below 32°F (0°C), a 200V-240V power supply from a dedicated 20A breaker must be provided to enable Dock Heater functionality. Provide a 100V-120V power supply from a dedicated 15A breaker for operation in temperatures from 32°F (0°C) to 122°F (50°C).

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Operating Limits

Category	Specification / Requirement
Launch / Land Winds	Up to 12 m/s (27 mph / 43 km/h)
Standby Wind Rating	Bolted to Permanent Structure: Up to ~160 mph (~257 km/h) **Note:** For bolting guidance information, see Dock Installation Requirements *(on page 22)*. Skydio Dock Boots Installed: ~80 mph (~128.7 km/h) Non-Bolted: ~40 mph (~64.4 km/h)
Operational Temperature	-4° to 122°F (-20° to 50°C)
Standby/Storage Temperature	-40° to 140°F (-40° to 60°C)
Ingress Protection (Roof Open)	IPX5
Ingress Protection (Roof Closed)	IPX6
Corrosion Resistance	Designed to operate in humid environments, outside of direct saltwater splash zones.
Rain and Snow Limitations	Operational Capability*: • 0.25 in/hr (6.4 mm/hr) (light-moderate) • Standby: 4.0 in/hr (101.6 mm/hr) (heavy) *Limited by Dock for X10.

Weights and Dimensions

Weights

Category	Specification / Requirement
Dock Roof	36 lb (16.3 kg)
Dock Base	143 lb (64.9 kg)
Dock Stand	53 lb (24.0 kg)
Fully Assembled	232 lb (105.5 kg)
Total Shipping Weight	~300 to 360 lb (136.1 to 163.3 kg)

WARNING:

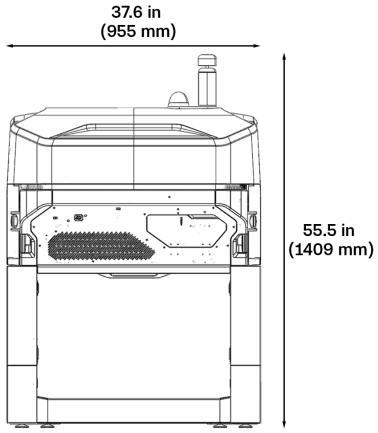
Transportation pallet tip hazard. Do not remove the Dock from its shipping pallet until it has reached the designated final installation location. While operating lift equipment, wear appropriate PPE.

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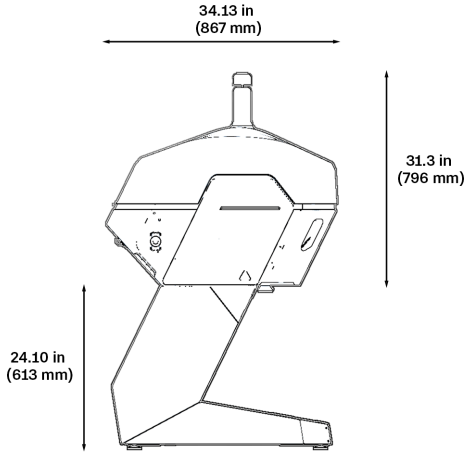
Dimensions

Category	Specification / Requirement
Height (Front View - Closed Roof)	55.5 in (1409 mm)
Width (Front View - Closed Roof)	37.6 in (955 mm)
Depth (Side View - Closed Roof)	34.13 in (867 mm)
Height (Side View - Dock Base)	31.3 in (796 mm)
Height (Side View - Dock Stand)	24.10 in (613 mm)
Doorway (Minimum)	29.7 in (754 mm)
Width (Front View - Open Roof)	40.5 in (1028 mm)
Depth (Side View - Maximum)	48.9 in (1241 mm)
Depth (Side View - Open Roof)	45.9 in (1166 mm)
Height (Front View - Open Roof Maximum)	37.6 in (955 mm)

Height / Width

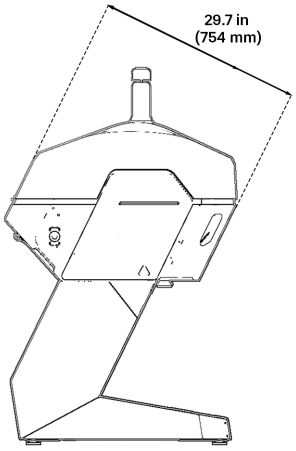


Depth / Base Height / Stand Height

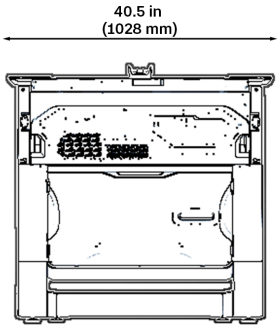


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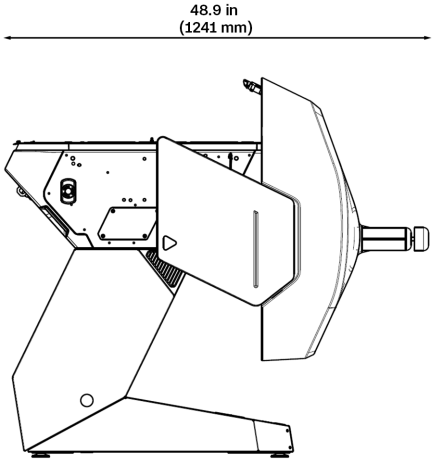
Entryway Minimum



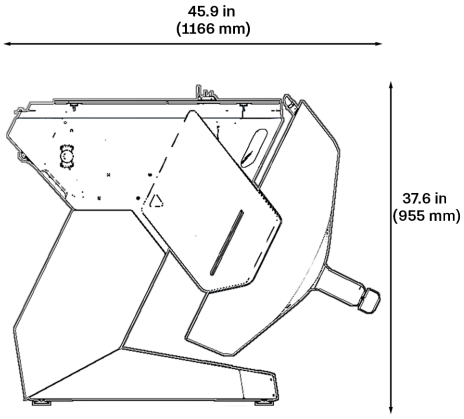
Width - Roof Open



Depth - Roof Open Maximum



Depth / Height - Roof Open



Materials

The Dock for X10 is composed of the following materials:

- Exterior Plastic: UL F1 rated* coating meets AAMA 2604 compliance for UV resistance.
- Exterior Metals: Coated with Tiger Drylac Series 138* coating.

Note:
This coating is AAMA 2604 compliant for UV resistance.

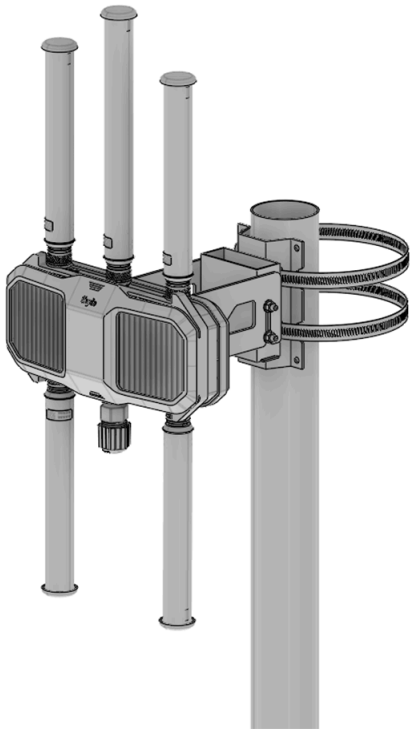
*All materials and components are subject to change

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External Radio Specifications

Technical Specifications

WNC Radio Antenna



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Type	Specification / Requirement
Low Voltage Power	Nominal: 11 to 13 W USB-C: 5 V / 3 A, 9 V / 3 A, 12 V / 3 A, 15 V / 3 A, 20 V / 3 A PoE: IEEE 802.3af
Power Input	PoE from Skydio Dock or by Customer network. Minimum: IEEE 802.3af
Power Load	11 to 13 W Power draw will increase with increasing cable lengths
Input/Output	1x Ethernet, 1x USB-C 3.0
Operating Frequency	Connect SL: 2400 to 2483.5 MHz and 5150 to 5850 MHz
ADS-B In	Included
GNSS	GPS + Galileo + GLONASS + BeiDou

Operating Limits

Type	Specification / Requirement
Wind Resistance*	Up to 130 mph (209 km/h)
Operational Ranges	Urban: 0.6-1.2 miles (1-2 km) Suburban: 1.2-3.7 miles (2-6 km) Rural: 3.7-7.5 miles (6-12 km) Max: 3.7-7.5 miles (6-12 km)
Operational Temperature	-4° to 122°F (-20° to 50°C)
Storage Temperature	-40° to 176°F (-40° to 80°C)
Ingress Protection	IP55
Corrosion Resistance	Designed to operate in humid environments, outside of direct saltwater splash zones.
Service Life	Continual Service with Dock: 5 years Vehicle-Mounted: 3 years Human-Carried: 2 years

* Measures the wind speed at which the External Radio and bracket will remain on the pole they are mounted to. This specification does not indicate the wind resistance of the pole itself.

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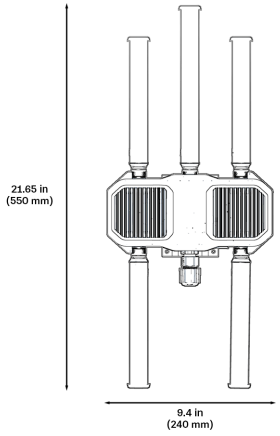
Weights and Dimensions

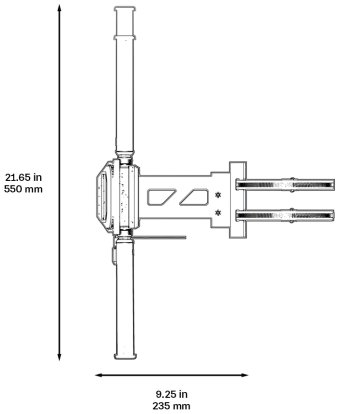
Weights

Category	Specification / Requirement
Total Weight	2.65 lb (1.2 kg)

Dimensions

Category	Specification / Requirement
Height (Antenna to Antenna)	21.65 in (550.0 mm)
Width (Pine Dual Band)	9.5 in (240 mm)
Depth (Pine Dual Band to Rear Bracket)	9.25 in (235 mm)





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Site Preparation

Wiring Configuration

Hardwired and Conduit Requirements

DANGER:

Electrical hazard. Exposure to energized components can result in serious injury or death. Follow local/site specific lockout/tagout procedures for de-energizing the Dock and removing electrical hazards. Ensure the work area is clear of unnecessary personnel. If necessary, restrict access to the area.

Before performing service on the unit, do the following:

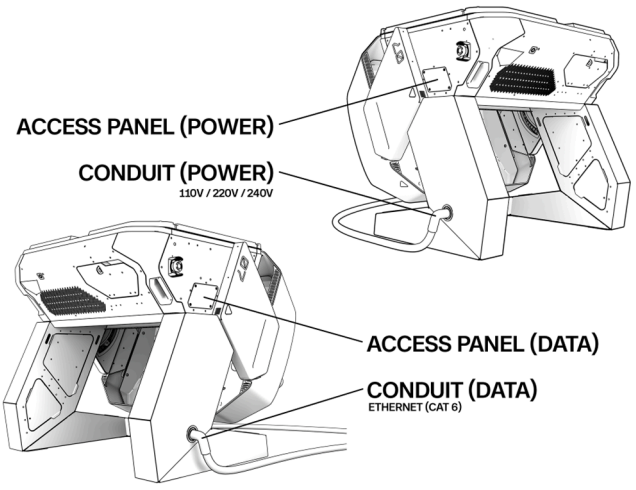
- Engage the Dock E-Stop button.
- Turn the Dock OFF.
- Disconnect the Dock from the AC power supply.
- Disconnect all external data and power cables from the Dock.
- Complete required lockout/tagout procedures per site requirements.

WARNING:

Ice accumulation when operating below 32°F (0°C) without a 200V-240V power supply. When operating below 32°F (0°C) without a 200V-240V power supply, Dock Heater functionality will be unavailable. Ice accumulation can result in degraded performance, crashes, or loss of the aircraft. For operation below 32°F (0°C), a 200V-240V power supply from a dedicated 20A breaker must be provided to enable Dock Heater functionality. Provide a 100V-120V power supply from a dedicated 15A breaker for operation in temperatures from 32°F (0°C) to 122°F (50°C).

The following applies from the perspective of the Drone:

- Low-voltage data is routed to the left side of the Dock.
- High-voltage AC power is routed to the right side of the Dock.



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The following hardwire and conduit requirements apply to Dock installation:

- There must be 1x circuit per Dock.
- A manual disconnect must be accessible to a Skydio Authorized Technician and placed within line of sight of the Skydio Dock.
- For **200 V to 240 V**: **12 AWG** setup required for cold weather (**L1, L2, G**).
- For **100 V to 120 V**: **12 AWG** setup (**L, N, G**).
- Hard conduit is run from the circuit breaker box to the flex conduit beside the Dock.
- The knockout on both sides of the Dock is sized for **1.0" EMT** conduit or equivalent to a **2.54 cm** diameter hole.

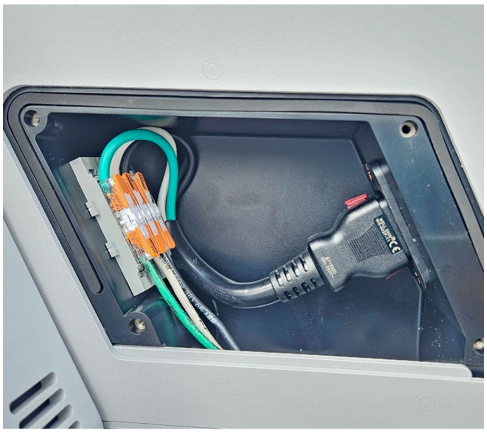
  Note:
  Located **6.5" (16.5 cm)** above ground level.

- To ensure there is enough conduit wiring to the terminal connections inside the Dock, provide an additional **4.0 ft (1.2 m)** wire beyond each Dock's knockout location.
- Hardwired power connects to Wago connectors located inside of the Dock.

Conduit



Wago Connectors



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Dock Power and Grounding Requirements

Power Connection Options

The Dock for X10 may be powered with either a **100 V to 120 V** connection or a **200 V to 240 V** connection. To ensure the Dock is able to operate in below freezing conditions, use a **200 V to 240 V** connection.

WARNING:

Ice accumulation when operating below 32°F (0°C) without a 200V-240V power supply. When operating below 32°F (0°C) without a 200V-240V power supply, Dock Heater functionality will be unavailable. Ice accumulation can result in degraded performance, crashes, or loss of the aircraft. For operation below 32°F (0°C), a 200V-240V power supply from a dedicated 20A breaker must be provided to enable Dock Heater functionality. Provide a 100V-120V power supply from a dedicated 15A breaker for operation in temperatures from 32°F (0°C) to 122°F (50°C).

Disconnect Accessibility:

Provide a local switched disconnect on the roof, accessible to both Skydio and Customer personnel.

DANGER:

Electrical hazard. Exposure to energized components can result in serious injury or death. Follow local/site specific lockout/tagout procedures for de-energizing the Dock and removing electrical hazards. Ensure the work area is clear of unnecessary personnel. If necessary, restrict access to the area.

Before performing service on the unit, do the following:

- Engage the Dock E-Stop button.
- Turn the Dock OFF.
- Disconnect the Dock from the AC power supply.
- Disconnect all external data and power cables from the Dock.
- Complete required lockout/tagout procedures per site requirements.

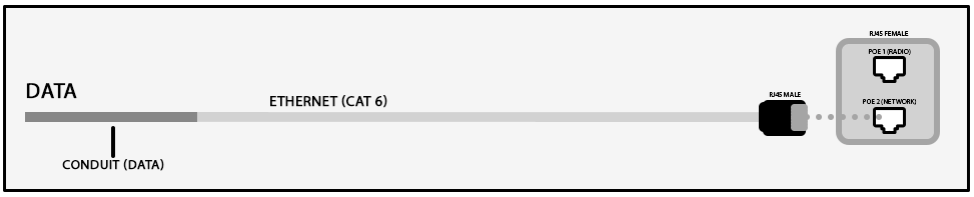
Surge Protection:

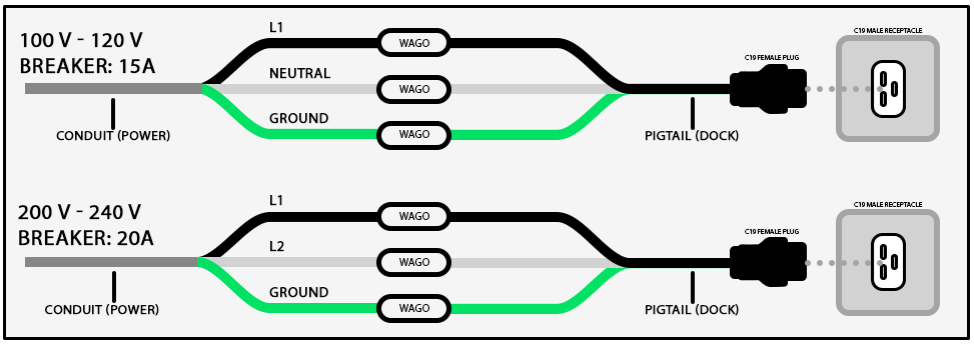
To better protect the Dock, it is recommended to use surge protection rated **40 kA** or **4 kV**.

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Power for Each Dock

Type	Specification / Requirement
Power Input	100 V to 240 V (200 V to 240 V required below 32°F (0°C)) 50 to 60 Hz
Power Load	2200 W at peak load 20 A breaker for 200 V to 240 V
	1200 W for operations above 32°F (0°C) 15 A breaker for 100 V to 120 V
Input/Output	2x PoE (30 W, 48 V) 1x USB 3.0 (5 W, 5 V)





Peak Power by Dock State

Device / Status	Hot	Room Temperature	Cold Peak Voltage (VAC): 100 V	Cold Peak Voltage (VAC): 240 V
	140°F / 60°C	75°F / 23.8°C	-4°F / -20°C	-4°F / -20°C
Dock - Not Charging	550 W	400 W	1300 W	1300 W
Dock - Charging	850 W	700 W	1430 W	1600 W
Dock - Super Charging	1000 W	850 W	1430 W	1750 W
Dock - Moving	1200 W	1000 W	1120 W	1300 W

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Dock Grounding

The Dock for X10 is grounded via the electrical system and power supply connections during installation.

For Docks installed inside or in close proximity to electrical substations, additional grounding may be required. To improve electrical safety and system stability, use grounding straps or cables attached to the Dock and External Radio.

External Radio Power and Grounding Requirements

The External Radio receives power and data through Power over Ethernet (PoE) via one Ethernet cable routed from the Dock accessory port or an on-site PoE switch.

Type	Specification / Requirement
Power	Nominal: 11 to 13 W USB-C: 5 V / 3 A, 9 V / 3 A, 12 V / 3 A, 15 V / 3 A, 20 V / 3 A PoE: IEEE 802.3af
Power Input	PoE from Skydio Dock or by Customer network. Minimum: IEEE 802.3af
Power Load	11 to 13 W Power draw will increase with increasing cable lengths

External Radio Grounding

WARNING:

Electrical hazard. Improper grounding can result in electric shock, fire, equipment damage, serious injury, or death. All grounding work must be performed by a qualified electrician in accordance with local codes.

To ensure electrical safety and system stability, the following grounding recommendations apply:

- **Utility Use Cases**: Grounding is recommended using grounding straps or cables attached to the Dock and External Radio.
- **All Other Use Cases**: Grounding is recommended for improved electrical safety and system stability.

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Skydio Authorized Technicians will install a grounding strap between the External Radio and the mounting pole.

- If using the provided non-penetrating sled, provisions must be made to ground the sled using a conductive fastener or securing the grounding wire between one of the fasteners in the assembly.
- If using a non-conductive pole, provisions must be made to connect a grounding wire to the lug of the grounding strap fastened to the pole.

Ethernet Cable Requirements

Skydio Device	**Dock for X10**	**External Radio**
Connection	**Dock for X10 to PoE Switch**	**External Radio to Dock for X10 or PoE Switch**
Conductors	23 AWG Solid Bare Copper	23 AWG Solid Bare Copper
Shielding	Aluminum Foil Overall (F/UTP)	Aluminum Foil Overall (F/UTP)
Outer Diameter (OD)	No Restriction	5.3 mm to 6.5 mm (restricted to ensure the gland fits)
Jacket	CMX rated Outdoor rated, UV resistance in compliance with UL444, withstands temperatures from -40°C to 90°C (not necessarily direct-burial rated)	CMX rated Outdoor rated, UV resistance in compliance with UL444, withstands temperatures from -40°C to 90°C (not necessarily direct-burial rated)
Bandwidth	Up to 550 MHz	Up to 550 MHz
PoE Support	Up to 100 W (IEEE 802.3af/at/bt, 4PPoE)	Up to 100 W (IEEE 802.3af/at/bt, 4PPoE)
Certification	ANSI/TIA-568.2-D, cETLus, RoHS-3, Fluke tested	ANSI/TIA-568.2-D, cETLus, RoHS-3, Fluke tested
Connectors	CAT6 Shielded 23 AWG RJ45 Connector	CAT6 Shielded 23 AWG RJ45 Connector
Strain Relief	Strain relief is mandatory on the Dock side to prevent long-term damage. There is a significant ~30° bend when the cable is plugged into the Dock, which makes strain relief critical.	No strain relief is required at the waterproof gland on the External Radio side. Strain relief is required if the other end is plugged into the Dock. Otherwise, it is optional.

To prevent signal loss for network installations, **CAT6A** cabling offers higher performance specifications compared to standard **CAT6**. Ensure cable length is less than **328 ft (100.0 m)**.

CAT6 cable with solid copper and double shielding is more than sufficient for nearly all installations.

CAT6A is not required for Skydio systems as our operations do not utilize the higher throughput speeds it supports.

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CAUTION:

Improper installation, routing, or excessive length of Cat6 network cables. Improper cabling may result in degraded data transfer rates and reduced communication reliability. Do not exceed recommended cable length limit. Avoid kinking, sharp bends, or placing excess weight on Cat6 network cables.

When to Consider CAT6A

For installations with long cable runs or environments with significant electrical interference, **CAT6A** may provide additional protection against signal loss or errors. These are edge scenarios, however, and in the vast majority of deployments, **CAT6** will perform reliably without issue.

External Radio Ethernet Cabling

The Ethernet cable from External Radio to Dock must be supplied by the Customer and must meet the following requirement:

- Use a shielded Cat6 or Cat6A Ethernet cable from the base of the External Radio to the Dock accessory port (or to open internet).
- The cable must be outdoor-rated and shielded, and should be encased in conduit where possible.
- Limit total cable length to less than **328 ft (100.0 m)** between the External Radio and Dock.

Computer System Requirements

Remote Flight Deck/DFR Command System Requirements

For optimal performance with **Remote Flight Deck** and **DFR Command**, ensure the computers used with the Dock for X10 Flight System meet the requirements below.

Note:
Skydio does not support accessing Remote Flight Deck from Virtual Desktop Infrastructure (VDI). Remote Flight Deck must be flown on a local machine.

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System Performance Requirements

Category	Minimum	Recommended
CPU	Intel Core Ultra 5 or AMD Ryzen 5	Intel Core Ultra 7 or AMD Ryzen 7
RAM	32 GB DDR5	32 GB DDR5 or greater
GPU (Desktop)	NVIDIA GeForce RTX 4060 (8 GB VRAM)	NVIDIA GeForce RTX 4070 (12 GB VRAM)
GPU (Laptop)	NVIDIA GeForce RTX 4070 Laptop GPU (8 GB VRAM)	NVIDIA GeForce RTX 4080 Laptop GPU (12 GB VRAM)
Network	100 Mbps sustained with latency under 50 ms	1 Gbps Ethernet preferred, or Wi-Fi 6E with minimum 300 Mbps sustained with latency under 30 ms

Note:
For Multi-Drone operations, use the recommended system performance requirements.

Display

Category	Minimum	Recommended
Resolution	1920 × 1080 (Full HD)	2560 × 1440 on a 30-inch Ultrawide Display
Screen width	1200 pixels	1600 pixels
Screen height	1024 pixels	Not Specified

Operating System and Browser Support

Note:
Keep supported browsers up to date.

A 64-bit Operating System is required.

Supported	Not Supported
Windows 10 or later, macOS 10.12 or later	Linux
Google Chrome, Microsoft Edge	Apple Safari, Mozilla Firefox, Microsoft Edge (not based on Chromium), Microsoft Internet Explorer

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DFR Command Operator Suggested Equipment List

For a DFR Command Operator, Skydio suggests the following equipment:

- A PC meeting all system requirements
- Monitor
- Monitor Stand
- Lighting
- Temp Keyboard
- Chairs
- Desk

Optional Accessories

- Desk Phone
- Walkie Talkie

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Installation Requirements

DANGER:

Improper installation or configuration of the Dock for X10. Improper installation or configuration of the Dock for X10 will result in equipment damage, serious injury, or death. For every Dock for X10 installation location, including connectivity and Radio Frequency (RF) mapping, final placement and installation requirements must be determined through a Skydio Site Survey.

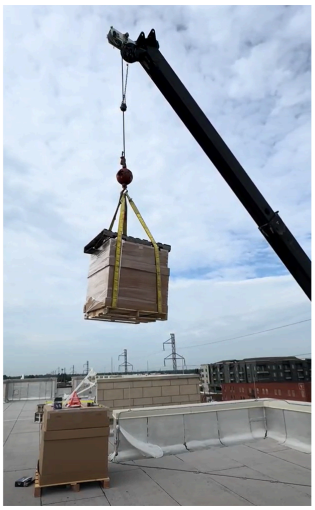
Transport and Delivery

Customer Transportation Responsibilities

The Customer is responsible for transporting the Skydio Dock from the shipment destination to the final installation site. Transport may require lifting or craning the pallet to a rooftop or elevated location, depending on site conditions.

WARNING:

Transportation pallet tip hazard. Do not remove the Dock from its shipping pallet until it has reached the designated final installation location. While operating lift equipment, wear appropriate PPE.



To transport, do the following:

- Lift or hoist the Dock in the packaging by crane or telescopic handler.
- If a crane or forklift is not available, separate the Dock into 3x major assemblies for other logistical solutions.

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Shipping Information

Type	Specification / Requirement
Shipping Dimensions	40 in x 48 in x 58 in (1016 mm x 1219 mm x 1473 mm) Pallet
Total Shipping Weight	~300 to 360 lb (136.1 to 163.3 kg)

Skydio Installation and Validation

Skydio Authorized Technicians and Field Services teams will perform system assembly and installation, validation testing, radio frequency (RF) analysis, connectivity mapping, and system activation.

Dock Installation Requirements

DANGER:

Improper installation or configuration of the Dock for X10. Improper installation or configuration of the Dock for X10 will result in equipment damage, serious injury, or death. For every Dock for X10 installation location, including connectivity and Radio Frequency (RF) mapping, final placement and installation requirements must be determined through a Skydio Site Survey.

Layout and Clearance

This section describes site layout and clearance requirements for the Skydio Dock for X10. Proper clearance helps ensure unobstructed Drone flight paths, GNSS reception, and safe approach and landing operations.

Obstacle Clearance

To support Drone operations and unobstructed approach paths, maintain the following clearances:

- Ensure no tall obstacles are present within a **15 ft (4.6 m)** radius surrounding each Dock set.
- Maintain a clear line of sight above and around each Dock.

The Dock requires an open field of view to the sky within a **15 ft (4.6 m)** radius of the Dock center point. Inside this zone, any obstacle taller than the Dock (ex. fence, wall, building, light pole, or overhanging tree) must be positioned so that its horizontal distance from the Dock is at least `1.2 x the obstacle's height (H)`. Obstacles beyond the **15 ft** radius are not restricted. GPS-transparent objects (ex. thin bridges, poles, or towers that do not block the sky view) are exempt.

To calculate whether obstacles taller than the **3.1 ft (0.94 m)** height of the Dock are an acceptable distance away from the Dock, measure the height of the obstacle and multiply it by `1.2`. The result is the horizontal distance the Dock must be away from the obstacle.

For Dock Hive information, see Multiple Docks (Hive) *(on page 33)*.

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GNSS Considerations

For the Global Navigation Satellite System (GNSS), note the following:

- Transparent objects are permissible (ex., poles, trees, nets, or items which usually do not fully block GNSS signals). To avoid these violations, set a return height.
- For non-transparent objects, Skydio uses a GPS Survey Tool and may need to consult with internal engineers to determine if the item is permissible to mitigate risk of reduced landing reliability.

Approach and Landing

When a Drone is approaching or landing at a Dock, the following conditions apply:

- To detect a Dock during descent, the Drone must descend within **12 ft (3.7 m)** above the Dock.

  Note:
  Obstacle Avoidance (OA) may be deactivated.

- Drone GPS may be inaccurate by a few meters.
- A clear line of sight to the Dock must be maintained.

Note:
This clearance accounts for potential wind, gusts, estimation errors, or control deviations.

Roof Rotation and Space Considerations

To prevent obstruction or damage during Roof movement, observe the following:

- For Roof rotation, allow adequate space behind each Skydio Dock.
- The Roof rotates **6.0 in (15.2 cm)** above the base of the Dock; ensure no obstructions exist within this rotation zone.

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Mounting and Structural Requirements

This section describes mounting and structural requirements for installing the Skydio Dock for X10. Requirements cover mounting methods, surface leveling, hardware specifications, and grounding to ensure a stable and safe installation.



Note:
The Dock for X10 may be freestanding or bolted onto a permanent structure. It is the Customer's sole responsibility to provide permanent mounting of the Dock System and External Radio.

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Mounting Method

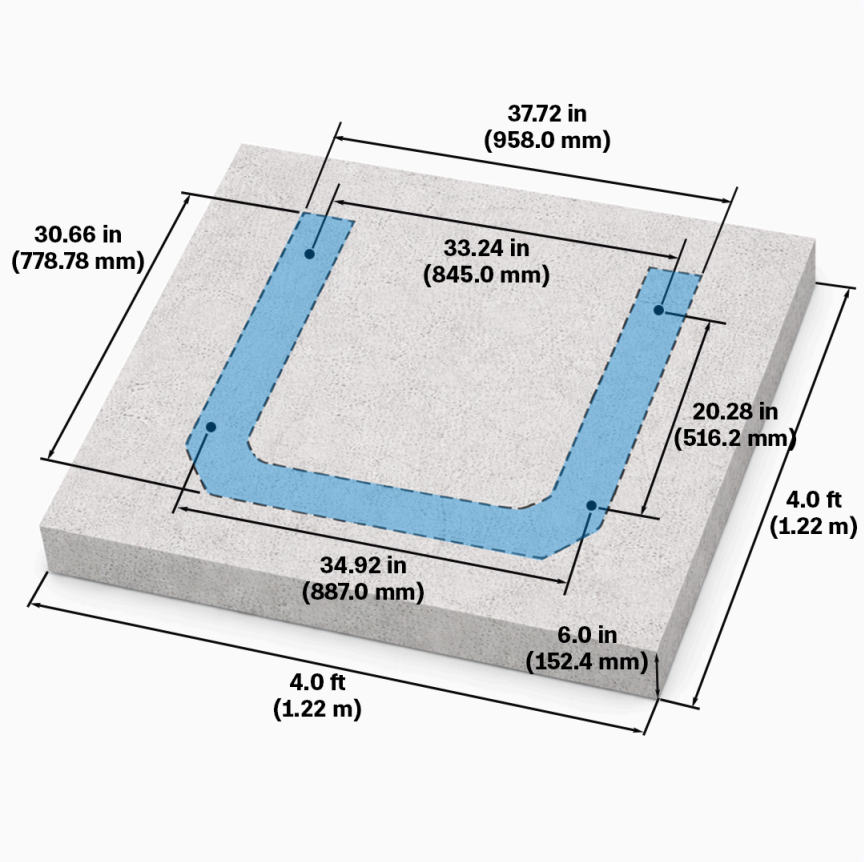
The following mounting methods explain how to secure the Skydio Dock to an installation surface:

Mounting to a Concrete Pad

Recommended: Secure the Skydio Dock by bolting it to an accessible permanent structure, such as a concrete pad when installing on the ground. For fastener information, see: Anchor Bolt and Thread Specifications *(on page 29)*

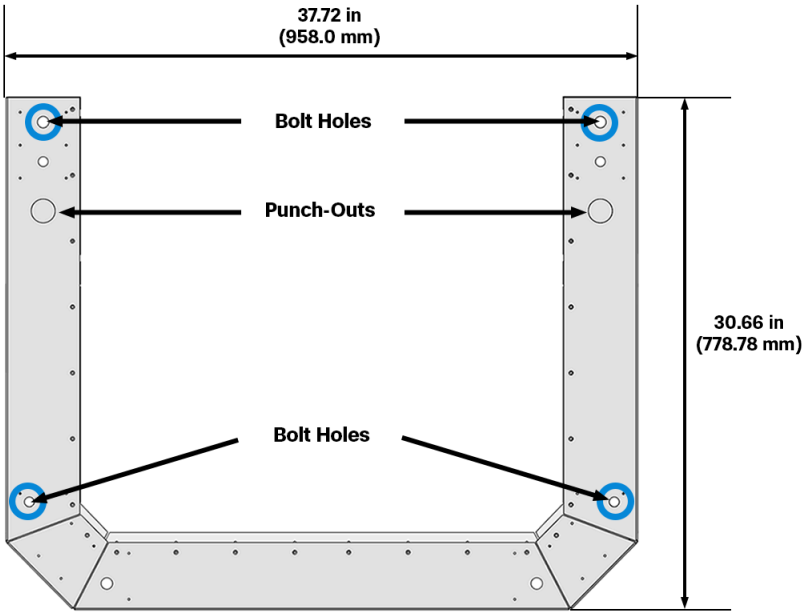
See the following Dock for X10 sizing requirements below:

Pad Mounting Dimensions



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Bolting Locations

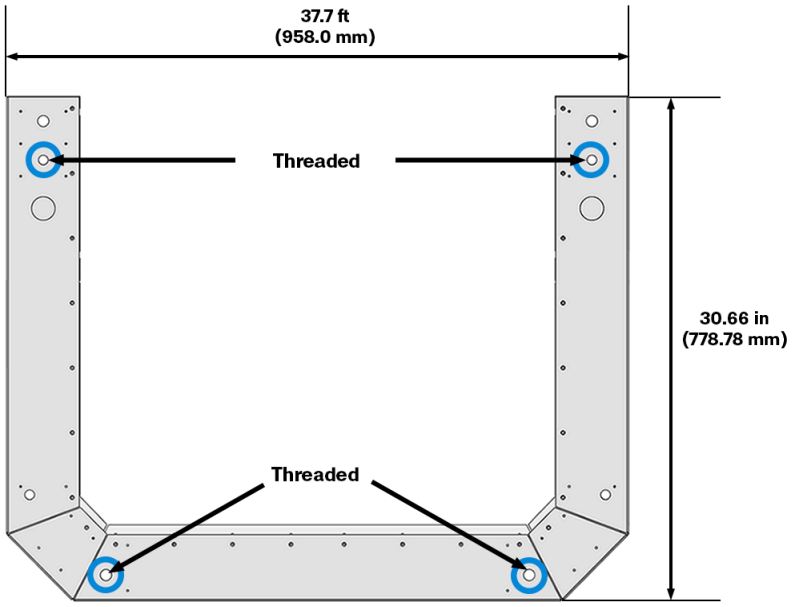


Category	Specification / Requirement
Dock Outer Width	37.72 in (958.0 mm)
Dock Outer Length	30.66 in (778.78 mm)
Concrete Pad Size (Minimum)	4 ft x 4 ft x 6 in (1.2 m x 1.2 m x 152.4 mm)

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Alternate Mounting Options

Recommended: For installations where bolting is not feasible, the Dock may be mounted using four leveling feet or Dock Boots (non-bolted configuration). See Dock Boots and Rubber Mat Guidance *(on page 28)*



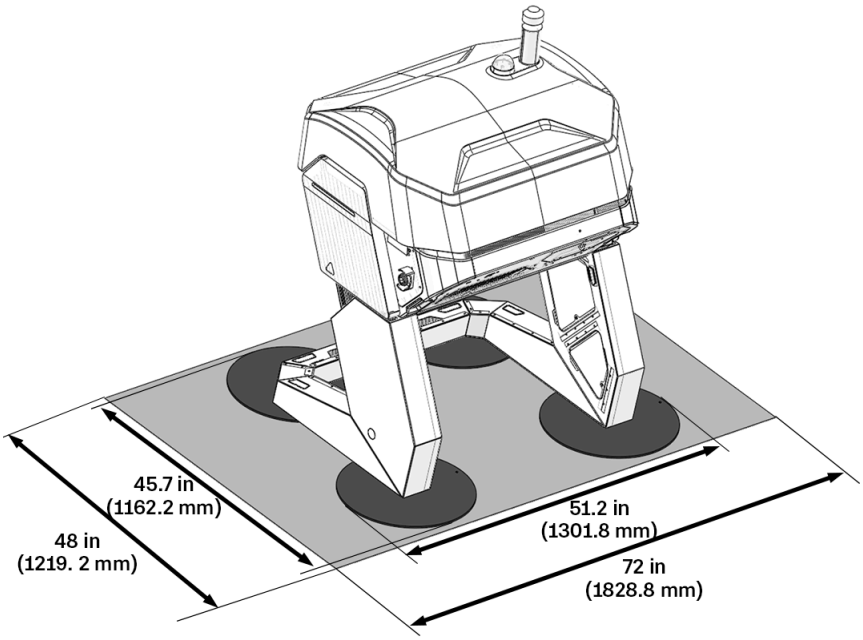
Recommended: For stability and load distribution, mount the Dock to a standing platform.

- For a roof constructed with soft or non-structural materials, construct a standing platform with the following minimum dimensions: **40 in x 36 in x 4.0 in (1016 mm x 914.4 mm x 101.6 mm)**.
- To accommodate Dock installation and maintenance, ensure a platform height of **12 in (304.8 mm)** or less.

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Dock Boots and Rubber Mat Guidance

It is recommended to place a Dock with Dock Boots on a Rubber Mat.



Dock Boots

Category	Specification / Requirement
Color	Black
Required Install Area	51.2 in (1301.8 mm) x 45.7 in (1162.2 mm)
Weight (per "foot")	~18 lb (8.2 kg)
Total Added Weight	~72 lb (32.7 kg) Across All 4x Dock Boots
Material	Steel (Painted, Holes For Paint/Hanging Only)
Surface Grip	Dock Boots use Grip Tape
Survival Wind Rating	• Without Dock Boots (Un-anchored Dock): ~40 mph (~64.4 km/h) • With Dock Boots + Utility Mat: ~80 mph (128.7 km/h) • Bolted Dock: > 80 mph (128.7 km/h) up to 160 mph (257 km/h)

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Rubber Mat

Category	Specification / Requirement
Color	Black
Required Install Area	72 in (1828.8 mm) x 48 in (1219.2 mm)
Border Width	1.0 in (25.4 mm)
Thickness	0.25 in (~6.4 mm)
Weight	32 lb (14.5 kg)
Hardness (Durometer)	73 Shore A
Material	Recycled Rubber
Underside	Diamond Gripper Pattern
Anti-static	Static Dissipative 10^5 Ω
Anti-Microbial	No
Chemical and Weather	Grease, Oil, and Weather Resistant
Flammability	ASTM / FMVSS 302: pass (25)
Compliance	DOP Free; Prop 65 Compliant

Anchor Bolt and Thread Specifications

WARNING:

Improper structural installation or inadequate anchoring. Structural failure under wind loading may result in equipment damage, falling components, or serious injury. For higher wind exposures (C/D) or other elevated load conditions, use engineered mounts or increase anchoring in accordance with applicable code requirements. Validate installation with a licensed structural engineer.

The following specifications apply to all bolt and thread installations:

Mounting Category	Fastener
Concrete Pad	Steel Wedge Anchor for Concrete 3/8 in -16 x 3 in (M10-1.5 x 75 mm)
Other Structures	High-Strength Grade 8 Steel Hex Head Screws 3/8 in -16 x 2 in (M10-1.5 x 50 mm)

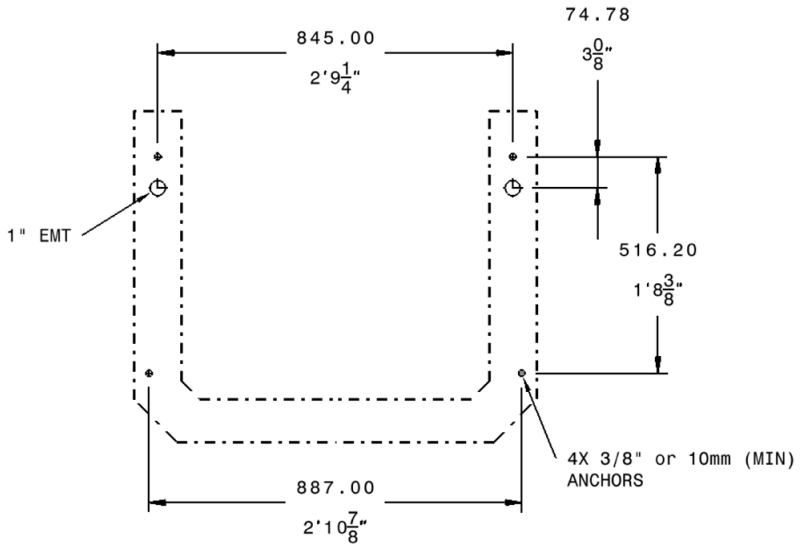
Ensure thread exposure above grade meets the following limits:

- Minimum: **1.0 in (25 mm)**
- Maximum: **2-3/8 in (6.0 mm)**

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Use the following diagram for these requirements:

- Anchor bolt location requirements
- Precise hole spacing
- Bolting pattern



Leveling and Surface Requirements

The following requirements apply to leveling and surface preparation:

- To ensure proper Dock operation and Drone landing accuracy, the landing surface must be maintained within **±3°** of level.
- Verify level alignment after installation and during periodic maintenance checks.

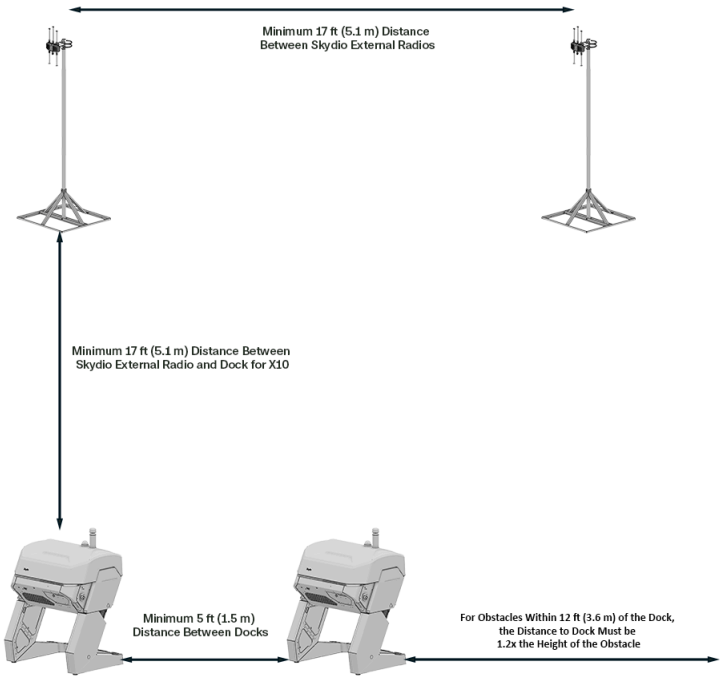
External Radio Installation Requirements

For the External Radio, note the following:

- Failure to provide dedicated External Radios may cause communication loss between Docks and the network.
- Each Dock requires 1x External Radio to maintain reliable connectivity and full system performance.
- To avoid any signal loss, ensure the maximum distance between the Dock and External Radio is **328 ft (100.0 m)**.

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Distance Between External Radio and Dock / Multiple Radios



Category	Specification / Requirement
Horizontal distance between External Radio and Dock	Minimum: 17 ft (5.2 m)
Horizontal distance between two or more External Radios	Minimum: 17 ft (5.2 m)
Vertical distance between two External Radios mounted to the same pole (from tip-to-tip of the antennas)	Minimum: 18 in (457 mm) Recommended: 36 in (914 mm)
Mounting height and location	Loss of signal or reduced range will occur if the External Radio's line of sight is obstructed. To maintain full communication range, observe the following requirements: • Obstructions will limit the range of Skydio Connect SL in the direction of the blockage. • The External Radio must maintain an unobstructed line of sight (with added margin for wave spread-out) to the horizon in all directions. • To prevent interference with the Drone's line of sight, the External Radio must be installed at least **5.0 ft (1.5 m)** above any walls or roof obstructions.

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Placement and Line of Sight

Poor placement may reduce signal quality and interrupt Drone-to-Dock communication.

Follow these placement guidelines:

- For optimal line of sight, install the External Radio at the highest point of the roof.
- To maintain clear line of sight in all directions, if no elevated location is available, ensure the mounting pole extends at least **10 ft (3.0 m)** above all roof structures.

Final Position Verification

Unverified locations may result in poor RF performance or obstruction interference. All final External Radio and Dock locations must be verified through the Skydio Pre-Site Survey before installation.

Mounting Options

WARNING:

Improper structural installation or inadequate anchoring. Structural failure under wind loading may result in equipment damage, falling components, or serious injury. For higher wind exposures (C/D) or other elevated load conditions, use engineered mounts or increase anchoring in accordance with applicable code requirements. Validate installation with a licensed structural engineer.

Improper mounting may result in movement, instability, or loss of communication during operation.

The External Radio may be mounted using one of the following options:

- A Customer-provided structurally mounted pole
- A free-standing non-penetrating ballasted stand provided by Skydio

Note:
To prevent a ballasted stand from shifting or tipping, the Customer must secure it with **~256 lb (116 kg)** of ballast using 8x **4" x 8" x 16" (100 mm x 200 mm x 400 mm)** cinder blocks, sandbags, or equivalent.

Mount Type	Pole OD	Antenna Set	Ballast (Cinder Blocks)	Target Wind Rating	Assumptions
Band-clamped to engineered pole	2 to 4 in (51 to 102 mm)	Patch or Yagi pair	0	130 mph (209 km/h)	Retention on pole only; pole and anchors engineered to site wind (ASCE 7)
Non-penetrating ballasted stand	2 to 3 in (51 to 76 mm)	Patch or Yagi pair	8	50 mph (80 km/h)	Exposure B; standard 4" x 8" x 16" (100 mm x 200 mm x 400 mm) blocks; correct clamp install

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Mounting Hardware and Stability

Using undersized or unstable supports may cause mount failure in severe weather.

To ensure long-term structural integrity:

- Use a steel mounting pipe with an outer diameter between **2 in and 6 in (5.1 cm and 15.2 cm)**.
- Permanently fix the pipe to a structural surface capable of withstanding environmental loads.
- Confirm the assembly remains stable under all expected weather conditions.

Multiple Docks (Hive)

WARNING:

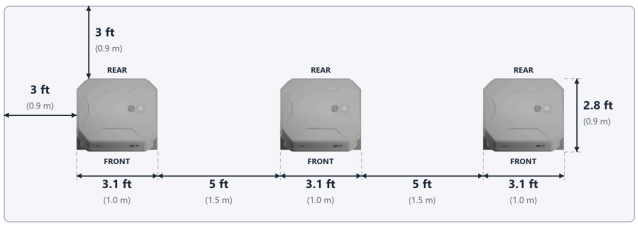
Improper installation or operation of multiple Skydio Dock for X10 units. Improper installation or operation may result in significant equipment or property damage, severe injury, or death. Follow all safety, electrical, and operational requirements for the installation and operation of multiple Skydio Dock for X10 units.

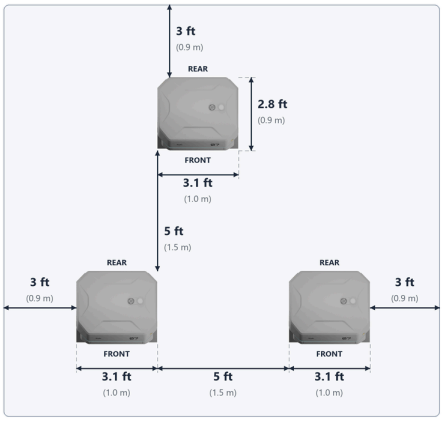
Hive Layout and Clearance

A **Hive** is a group of 2 to 6 Docks installed in the same location. When installing a Hive, ensure the following:

- Maintain a minimum of **5.0 ft (1.5 m)** between each Dock, side-by-side.
- Maintain a minimum of **15 ft (4.6 m)** of clearance around each set of Docks for safe operation and flight maneuvering.
- Provide a **4 ft x 4 ft (1.2 m x 1.2 m)** square space nearby as an alternative safe landing zone.
- Final locations are determined during the Skydio Site Survey.

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Appendixes

Corrosion Guidance

Dock for X10 is designed and tested to operate in coastal regions, outside of direct saltwater splash zones. With the standard Maintenance and Repair package for Dock, Skydio Service Representatives will conduct maintenance and repair visits in order to keep Dock for X10 operational.

Corrosive environments will cause cosmetic degradation and may also result in functional degradation. Functional degradation can be corrected by replacing corroded components, which is covered under the Dock for X10 Maintenance and Repair package, so long as the deployment is not in an area of direct saltwater exposure. Cosmetic degradation is, however, not covered under the Maintenance and Repair package.

To reduce the likelihood of functional and cosmetic degradation due to corrosion, Skydio recommends that the Dock for X10 be installed at least **200 m** from coastline. Deployments inside of **200 m** but outside of saltwater splash zones will not void the warranty.

Installation in direct saltwater splash zones will void the 1-Year Limited Warranty and may result in repairs that are not covered under the Dock for X10 Maintenance and Repair package.

Safety Information

DANGER:

Improper installation or configuration of the Dock for X10. Improper installation or configuration of the Dock for X10 will result in equipment damage, serious injury, or death. For every Dock for X10 installation location, including connectivity and Radio Frequency (RF) mapping, final placement and installation requirements must be determined through a Skydio Site Survey.

DANGER:

Electrical hazard. Exposure to energized components can result in serious injury or death. Follow local/site specific lockout/tagout procedures for de-energizing the Dock and removing electrical hazards. Ensure the work area is clear of unnecessary personnel. If necessary, restrict access to the area.

Before performing service on the unit, do the following:

- Engage the Dock E-Stop button.
- Turn the Dock OFF.
- Disconnect the Dock from the AC power supply.
- Disconnect all external data and power cables from the Dock.
- Complete required lockout/tagout procedures per site requirements.

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WARNING:

Ice accumulation when operating below 32°F (0°C) without a 200V-240V power supply. When operating below 32°F (0°C) without a 200V-240V power supply, Dock Heater functionality will be unavailable. Ice accumulation can result in degraded performance, crashes, or loss of the aircraft. For operation below 32°F (0°C), a 200V-240V power supply from a dedicated 20A breaker must be provided to enable Dock Heater functionality. Provide a 100V-120V power supply from a dedicated 15A breaker for operation in temperatures from 32°F (0°C) to 122°F (50°C).

WARNING:

Improper installation or operation of multiple Skydio Dock for X10 units. Improper installation or operation may result in significant equipment or property damage, severe injury, or death. Follow all safety, electrical, and operational requirements for the installation and operation of multiple Skydio Dock for X10 units.

WARNING:

Improper structural installation or inadequate anchoring. Structural failure under wind loading may result in equipment damage, falling components, or serious injury. For higher wind exposures (C/D) or other elevated load conditions, use engineered mounts or increase anchoring in accordance with applicable code requirements. Validate installation with a licensed structural engineer.

WARNING:

Transportation pallet tip hazard. Do not remove the Dock from its shipping pallet until it has reached the designated final installation location. While operating lift equipment, wear appropriate PPE.

CAUTION:

Improper installation, routing, or excessive length of Cat6 network cables. Improper cabling may result in degraded data transfer rates and reduced communication reliability. Do not exceed recommended cable length limit. Avoid kinking, sharp bends, or placing excess weight on Cat6 network cables.

NOTICE:

Customer Responsibilities. Skydio will provide Skydio Dock for X10 and External Radio hardware only.

The Customer is solely responsible for providing all infrastructure required for operation, including but not limited to:

- Power
- Electrical work
- Networking
- Wiring between Docks
- Installing protective conduit to encase cable runs
- Mounting
- Site preparation

Skydio assumes no responsibility or liability for any Customer-performed or Customer-provided infrastructure.

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Glossary

Terms and acronyms used throughout the Skydio Dock for X10 Site Readiness Manual.

The following terms appear throughout this manual.

Term	Definition
ADS-B	Automatic Dependent Surveillance-Broadcast; a system that receives crewed-aircraft position data to support airspace awareness during flight.
Anchor Bolt	Threaded fastener set into concrete or another permanent structure that secures the Dock in a bolted installation.
ASCE 7	American Society of Civil Engineers standard for minimum design loads, including wind loads, on buildings and other structures.
AWG (American Wire Gauge)	Standard for conductor size. A lower number indicates a thicker wire.
Ballast	Weight, such as cinder blocks or sandbags, placed on a non-penetrating stand to keep it from shifting or tipping.
CAT6 / CAT6A	Twisted-pair Ethernet cable categories. CAT6A supports higher data rates over the full 328 ft (100 m) cable length.
CMX	National Electrical Code rating for limited-use communications cable.
Conduit	Protective tubing that routes electrical wiring between the circuit breaker box and the Dock.
DFR Command	Skydio software suite that manages Drone-as-First-Responder programs, including Dispatch and evidence workflows.
Dock Boots	Painted steel feet that add weight to a non-bolted Dock to increase its survival wind rating. Dock Boots are placed on a Rubber Mat.
Dock for X10	Fixed base station that houses, charges, launches, and lands the Skydio X10 Drone for remote operations.
Drone	The Skydio X10 aircraft that the Dock houses, charges, launches, and lands.
EMT (Electrical Metallic Tubing)	Thin-wall metal conduit. The knockouts on the Dock are sized for 1 in EMT.
External Radio	See Skydio Connect External Radio.
F/UTP (Foiled/Unshielded Twisted Pair)	Ethernet cable construction with an overall foil shield around unshielded wire pairs.
GNSS (Global Navigation Satellite System)	Satellite positioning systems, such as GPS, Galileo, GLONASS, and BeiDou, used to determine location.
Hive	Group of 2 to 6 Docks installed at the same location.
IP Rating (Ingress Protection)	IEC 60529 rating for protection against solids and water. The first digit rates dust protection and the second rates water protection; an X means the category is not rated. For example, IPX5 protects against water jets and IPX6 protects against powerful water jets.
Knockout	Removable section of the Dock enclosure that opens a conduit entry point.

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Term	Definition
Line of Sight	Unobstructed straight path between two points, such as between the External Radio and the Drone.
Obstacle Clearance (1.2 x H)	Rule that an obstacle taller than the Dock must be at least 1.2 times its height (H) away from the Dock, measured horizontally.
PoE (Power over Ethernet)	Method of delivering power and data over one Ethernet cable. Four-pair PoE (4PPoE, IEEE 802.3bt) carries power on all four wire pairs.
Remote Flight Deck (RFD)	Web-based ground control interface used to remotely operate the Drone.
Return Height	Configured altitude the Drone maintains while returning to the home point or landing location.
RF (Radio Frequency)	Electromagnetic signals used for wireless communication between the Drone, Dock, and External Radio.
RJ45	Standard 8-pin modular connector used on Ethernet cables.
Roof	Dock cover that opens to launch and land the Drone.
Rubber Mat	Recycled rubber mat placed under the Dock Boots to add grip on the installation surface.
Safe Landing Zone	Clear area near the Dock where the Drone can land if it cannot land in the Dock.
Site Survey	Skydio assessment of a proposed installation site that verifies the final Dock and External Radio locations before installation.
Skydio Authorized Technician	Skydio-trained technician who assembles, installs, and services the Dock and External Radio.
Skydio Connect External Radio	Standalone Ethernet-connected radio that extends Skydio Link range from the Dock.
Skydio Connect SL	Proprietary point-to-point wireless link between the Drone and Dock or External Radio.
Standing Platform	Rigid platform built on a soft or non-structural roof to support the Dock and distribute its load.
Strain Relief	Clamp or fitting that keeps a cable from bending or pulling at its connector.
Surge Protection	Device that limits voltage spikes on the Dock power circuit.
VDI (Virtual Desktop Infrastructure)	Remote desktop environment hosted on a server. Remote Flight Deck must be flown on a local computer, not through VDI.
Wago Connectors	Wire connectors inside the Dock where hardwired AC power is connected.

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