

# Skydio X2D



## Skydio X2D uses unmatched AI to turn every operator into an expert pilot

Skydio X2D is the ultimate reconnaissance tool. X2D pairs breakthrough autonomy software with a ruggedized airframe with folding arms for easy “pack and go” transportation, and up to 35 minutes of flight time. X2D is equipped with six 4k navigation cameras for 360 degree obstacle avoidance and a dual sensor payload that includes a 12MP color camera and FLIR® 320x256 thermal sensor. Built to exceed the Short-Range Reconnaissance (SRR) requirements for the U.S. Army, X2D helps military operators and federal agencies perform reconnaissance, search and rescue, and security patrol missions. Designed, assembled, and supported in the USA, X2D turns anyone into an expert pilot.

## Optional add-ons

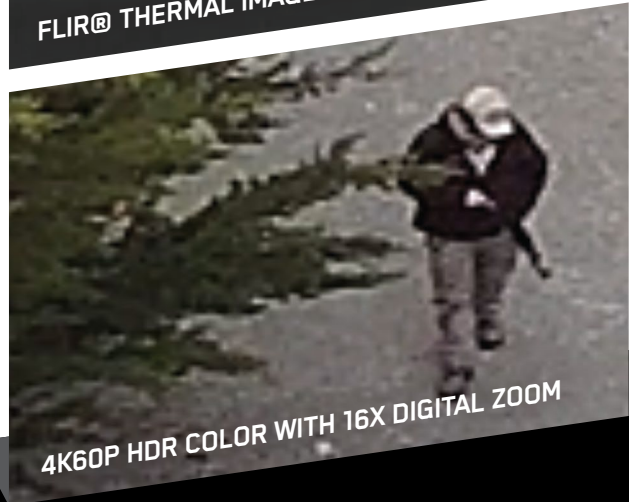
- **Skydio Autonomy™ Enterprise Foundation:** 360 Superzoom, Close Proximity Obstacle Avoidance, 180 Vertical View and more.
- **Skydio 3D Scan™.** First-of-its-kind digital scan software for inspections of complex structures, such as bridges, energy infrastructure, or crash and crime scenes.



RUGGED, FOLDED AIRFRAME



FLIR® THERMAL IMAGER WITH 8X ZOOM



4K60P HDR COLOR WITH 16X DIGITAL ZOOM

RANGE

up to 10 km

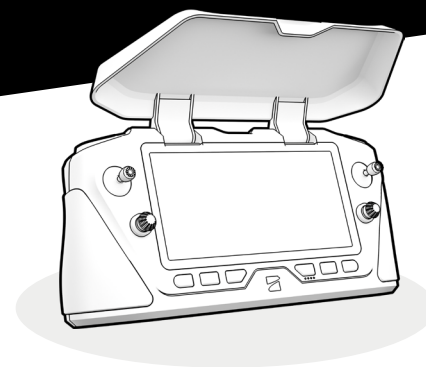
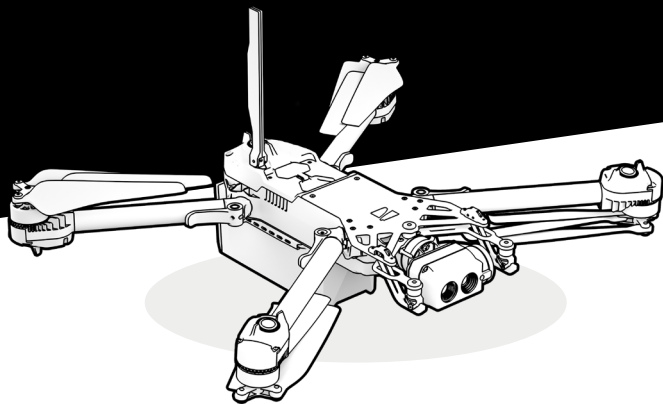
OBSTACLE AVOIDANCE

True 360°

FLIGHT TIME

up to 35 min

# X2D & Controller Specs



## AIRCRAFT

|                                        |                                                      |
|----------------------------------------|------------------------------------------------------|
| <b>DIMENSIONS (UNFOLDED, FLYING)</b>   | 26.1" X 22.4" X 8.3"                                 |
| <b>DIMENSIONS (FOLDED, NO BATTERY)</b> | 11.9" X 5.5" X 3.6"                                  |
| <b>WEIGHT (WITH BATTERY)</b>           | 1325 g                                               |
| <b>COLOR CAMERA</b>                    | 4K/60fps Video with 16x digital zoom                 |
| <b>THERMAL CAMERA</b>                  | FLIR Boson® 320P thermal imager with 8x digital zoom |

## SKYDIO AUTONOMY

|                                              |                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>MAIN PROCESSOR</b>                        | NVIDIA Tegra X2 SOC                                                                            |
| <b>GPU</b>                                   | 256-core NVIDIA Pascal™ GPU                                                                    |
| <b>CPU</b>                                   | Dual-Core NVIDIA Denver 2 64-bit CPU<br>Quad-Core ARM®-A57 MPCore                              |
| <b>RAM</b>                                   | 4 GB 128-bit LPDDR4                                                                            |
| <b>OBSTACLE AVOIDANCE COVERAGE</b>           | Omnidirectional and above/below super fisheye lenses for 360° view                             |
| <b>3D WORLD MODEL UPDATE RATE</b>            | > 1 million points per second                                                                  |
| <b>WORLD MODEL-TO-ACTION UPDATE RATE</b>     | 500 iterations per second                                                                      |
| <b>ONBOARD AI</b>                            | 9 custom deep networks used in flight                                                          |
| <b>USER-SELECTABLE SUBJECTS FOR TRACKING</b> | People and motor vehicles                                                                      |
| <b>OBJECT TRACKING AND IDENTIFICATION</b>    | Up to 10 simultaneous objects of interest                                                      |
| <b>CALIBRATION</b>                           | Automated online calibration of lens parameters, camera rotations, wind speed, and air density |

## HANDSET

|                   |                                                  |
|-------------------|--------------------------------------------------|
| <b>DIMENSIONS</b> | 10.75" x 5.25 x 3.0"                             |
| <b>WEIGHT</b>     | 1130 g                                           |
| <b>INPUT</b>      | Dual 2-axis joysticks, dual rockers & 10 buttons |
| <b>SENSORS</b>    | GPS, Barometer, Compass, Gyro, ACC               |
| <b>MEMORY</b>     | 256 GB                                           |
| <b>PROCESSOR</b>  | Qualcomm Snapdragon 855                          |

## CONTROLLER SOFTWARE

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| <b>APPLICATIONS</b>          | Skydio Enterprise (offline), Skydio QGroundControl   |
| <b>WIRED LINKS</b>           | USB 3.1, (via dongle) HDMI                           |
| <b>OPERATING FREQUENCIES</b> | 1.8 / 5 GHz                                          |
| <b>MAX RANGE</b>             | Expected up to 10 km / expected up to 6 km           |
| <b>BANDWIDTH SELECTION</b>   | 4 / 8 MHz (1.8GHz radio) and 5 / 20 MHz (5GHz radio) |
| <b>VIDEO</b>                 | 720p/30fps                                           |

## SYSTEM SECURITY

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| <b>WIRELESS ENCRYPTION</b> | AES-256                                           |
| <b>FIRMWARE</b>            | Signed and encrypted                              |
| <b>MEDIA ENCRYPTION</b>    | Encrypted SD Cards with physical Yubikey          |
| <b>CONTROLS</b>            | Ability to provision and deprovision devices      |
| <b>INFRASTRUCTURE</b>      | Key provisioning burned-in at time of manufacture |



Contact [enterprise@skydio.com](mailto:enterprise@skydio.com) today to learn more about integrating Skydio X2.

Designed and assembled in the USA