

Skydio X2D



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

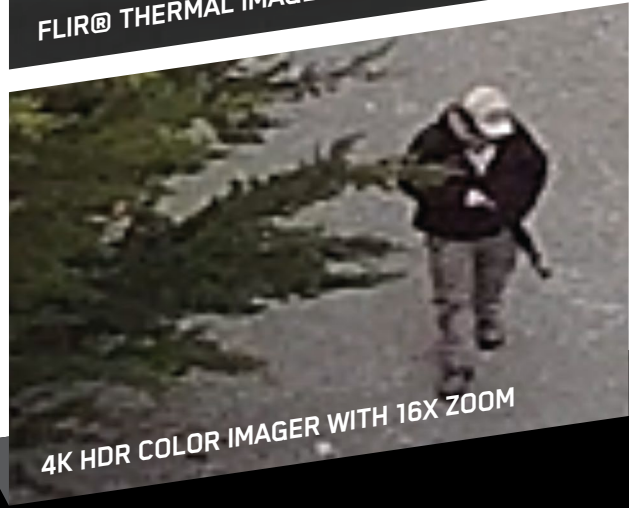
Skydio X2D is the ultimate reconnaissance tool. X2D pairs breakthrough autonomy software with a rugged, foldable airframe for easy “pack and go” transportation, a thermal camera, and up to 35 minutes of flight time. X2D is equipped with six 4K navigation cameras for 360 degree obstacle avoidance and a dual sensor payload that includes 12MP color and 320x256 FLIR® sensors. 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.



RUGGED, FOLDABLE AIRFRAME



FLIR® THERMAL IMAGER WITH 8X ZOOM



4K HDR COLOR IMAGER WITH 16X ZOOM

MAX RANGE

**10
km**

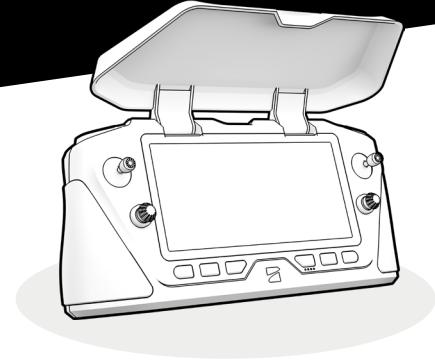
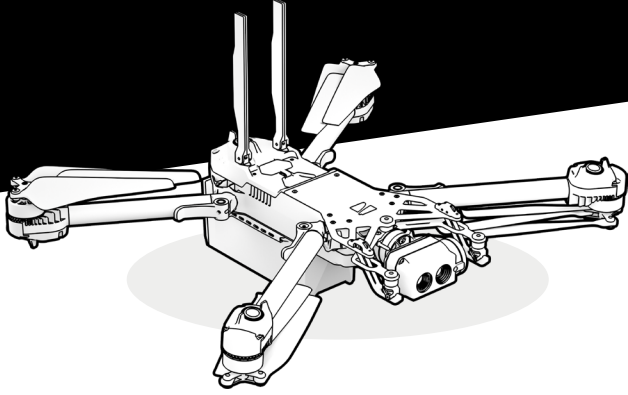
OBSTACLE AVOIDANCE

**360°
45 megapixel**

FLIGHT TIME

**35
min**

X2D & Controller Specs



AIRCRAFT

DIMENSIONS (UNFOLDED)	15.1" X 11.9" X 4.21"
DIMENSIONS (FOLDED, NO BATTERY)	10.86" X 4.17" X 2.0"
WEIGHT	1.3 kg
HARDENING	near IP53
CUSTOM PAYLOADS	USB-C interface, up to 150 g
COLOR CAMERA	4K60P HDR Camera with 16x zoom
THERMAL CAMERA	FLIR Boson® 320 Thermal Imager with 8x

SKYDIO AUTONOMY

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

CONTROLLER HARDWARE

DIMENSIONS	10.5" x 5" x 3"
WEIGHT	900 g
INPUT	Dual 2-axis joysticks, dual rockers & 10 buttons
SENSORS	GPS, Barometer, Compass, Gyro, ACC
MEMORY	256 GB disk, 12 GB RAM
PROCESSOR	Qualcomm Snapdragon 855

CONTROLLER SOFTWARE

OPERATING SYSTEM	Android 9
APPLICATIONS	Skydio Enterprise, QGroundControl (MAVLink)
WIRELESS LINKS	4G LTE, WiFi, Bluetooth
WIRED LINKS	USB 3.1, (via dongle) HDMI, SD, Ethernet
OPERATING FREQUENCIES	1.8/2.4 GHz
MAX RANGE	Up to 10 km on 1.8 GHz, up to 6 km 2.4 GHz
CHANNEL BANDWIDTH	1/2/4/8 MHz
VIDEO	Up to 1080p60, 20 Mbps
ENCRYPTION	AES-256

SYSTEM SECURITY

MEDIA ENCRYPTION	AES-CBC algorithm using unique file encryption keys (FEKs) encrypted using Open SSL (2048-bit key RSA). Decryption keys never stored on vehicle.
WIRELESS CONNECTION	AES-256
FIRMWARE	Signed and encrypted
CONTROLS	Ability to provision and deprovision devices
INFRASTRUCTURE	Key provisioning burned-in at time of manufacture
FIPS COMPLIANCE	FIPS 140-2 validated hardware key



Contact enterprise@skydio.com today to learn more about integrating Skydio X2.

Designed and assembled in Redwood City, California