Salient Characteristics

ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT
0001	Skydio X10D Starter Solution (Multi-Band, IR) with the VT300-Z sensor (DR4DSBN3IZA1000NA) General System and Deployment Requirements: • Compliance: Designed and assembled in the USA; NDAA compliant. Features RAS-A compliance and open MAVLINK protocol for third-party/government software support. • Modularity: Includes four attachment bays for modular mission configuration. • Deployment Speed: Deployment and startup time is under 40 seconds. • Portability: Backpack deployable; designed to be highly man-portable. • Physical and Flight Performance • Dimensions (Folded): 13.8" x 6.5" x 4.7" • Dimensions (Unfolded): 31.1" x 25.6" x 5.7" (with propellers) • Weight (with batteries): Connect SL configuration is 2.11 kg (4.65 lbs). Connect MH configuration is 2.14 kg (4.72 lbs). • Flight Metrics: Max Flight Time is 40 minutes. Max Hover Time is 35 minutes. Max Flight Speed is 45 mph. • Environmental Durability: Aircraft Ingress Protection is IP55 (Certified against dust and water). Controller Ingress Protection is IP54. Operational Temperature Range is -20 °C to +45 °C (-4 °F to 113 °F). • Optical and Thermal Sensor Payloads • Wide Camera: Sony IMX686, 1/1.7", 64 MP, CMOS; 93° FOV; 8 mm focal length (20 mm equivalent); 3840 x 2880 max video; includes LED flashlight. • Narrow Camera: Sony 1/1.7", 64 MP, CMOS; 50° FOV; 10 mm focal length (46 mm equivalent); f/1.8 aperture; 3840 x 2880 max video. • Telephoto Camera: Sony IMX586-K, 1/2", 48 MP, CMOS; 13° FOV; 35 mm focal length (190 mm equivalent); 3840 x 2880 max video. • Thermal Imager: Teledyne FLIR Boson+ Uncooled VOx Microbolometer; 41° FOV; 13.6 mm focal length (60 mm equivalent); f/1.0 aperture; 640 x 512 max video resolution. Sensitivity is <30 mK NEDT. Measurement Accuracy is	2	EA

	the larger of ± 5 °C or 5% using Spot Meter or Area Measurement methods. Palettes include White Hot, Black Hot, Iron Bow, and Rainbow. • Navigation and Autonomy • Obstacle Avoidance: Six custom 32 MP navigation cameras providing true 360-degree visibility and obstacle avoidance. • Autonomous Flight: Advanced onboard AI automates flights in complex, GPS-denied, or high Electromagnetic Interference (EMI) environments. • Night Operations: Features Skydio NightSense mode for autonomous flight in the dark. • Connectivity and Ground Control Station • Connect SL Radio: 12 km (7.5 miles) range. Frequencies: 2400-2483.5 MHz & 5150-5850 MHz. • Connect MH Radio: 10 km (6.2 miles) range. Defense/Multi-band frequencies: 1625-1725 MHz, 1790-1850 MHz, 2040-2110 MHz, 2200-2300 MHz, 2300-2390 MHz, 2400-2500 MHz. • Smart Controller Build: Physical dimensions are 10.5" x 5" x 3" with a weight of 1.14 kg (2.50 lbs). • Controller Display: 6.6" dynamic AMOLED touchscreen (2340 x 1080 pixels, 392 ppi) featuring 1750 nits outdoor peak brightness with 120 Hz adaptive refresh rate. • Controller Outputs: HDMI (type A) & USB-C		