



Persistent Surveillance

Border Security

Scene Illumination



MOBILE SENTRY™

Tethered Aerial System

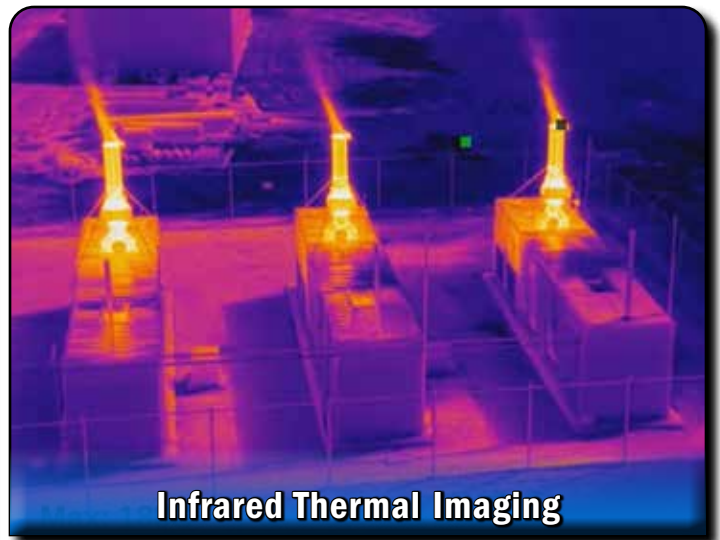


Designed and Built in the USA -
NDAA 848 Compliant

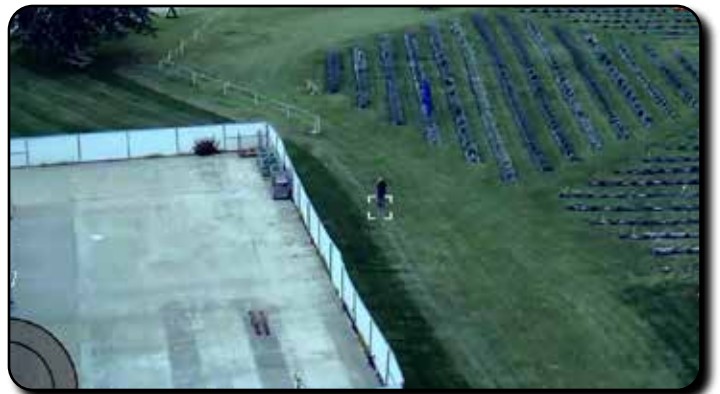
MOBILE SENTRY Tethered Aerial System

Will-Burt's Mobile Sentry Tethered Aerial System is designed to deliver autonomous persistent video surveillance, communications, and illumination from elevations up to 150 feet / 45 meters (optional up to 300 ft / 91 m) for mission-critical operations. Interchangeable sensors, telecommunication devices, and LED lighting payloads allow Mobile Sentry's capabilities to be tailored to the mission. Autonomous launch, flight and landing enables human resources to be allocated to important tasks that require analysis and decision-making rather than piloting and flight monitoring.

The Mobile Sentry Tethered Aerial System is built in the USA and NDAA 848 compliant. Mobile Sentry is the next step in the evolution of critical payload elevation from the world leader - Will-Burt.



Persistent surveillance and tracking with powerful imager



Illuminate critical areas with powerful LED lighting



Infrared imager with color palettes



ESSENTIAL FEATURES

Capabilities:

Wide-area persistent surveillance, communications and lighting

- Autonomous flight tethered aerial system
- Indefinite flight time



Ultimate Mission Flexibility: Interchangeable, Multi-payload capability

- EO Cameras
- Thermal Sensors
- Video Tracking and License Plate Reading
- Communication Devices
- LED Lights
- Elevation up to 150 feet / 45 meters with optional 300 feet / 91 meters

Easy Operation and Transport

- Drone Tethered Base Stations for ultimate mobility or vehicle based
 - Lightweight, man-portable Mobile Base Station
 - Vehicle based Automated Hangar System
- Large, easy to see wireless controller with high resolution video screen
- Computer control capable
- Piloted, Free-flight capable
- Safe – with redundant systems including battery back-up, automatic return to home, and flight continuation with loss of one motor



SPECIFICATIONS



Drone	Will-Burt-6 TH (Drone for Automated Hangar Station)	Will-Burt-6 TMBS (Drone for Mobile Base Station)
Body	Nylon/Carbon Fiber	
Payload	LED lights, EO/IR/Thermal cameras, RF Repeater/Booster	
Battery	39,000 mAh 6S LiPo	
Autonomous Charging	Yes	
Charging Time	Continuous	
Weight: Empty	7.72 lbs. / 3.5 kg	8.16 lbs. / 3.7 kg
Weight With Battery	8.82 lbs. / 4 kg	9.26 lbs. / 4.2 kg
Weight: Max with Payload	15.82 lbs. / 7.2 kg	16.26 lbs. / 7.4 kg
Wind Performance	Up to 35 mph / 56 kmph	
Tethered Vehicle Following Speed	Up to 35 mph / 56 kmph	N/A
Weather Rating	IP 55 -Protection against Dust, Rain, Snow	
Color Options	Matte Black / Gloss White with Red Racing Stripe	

Storage case included with drone

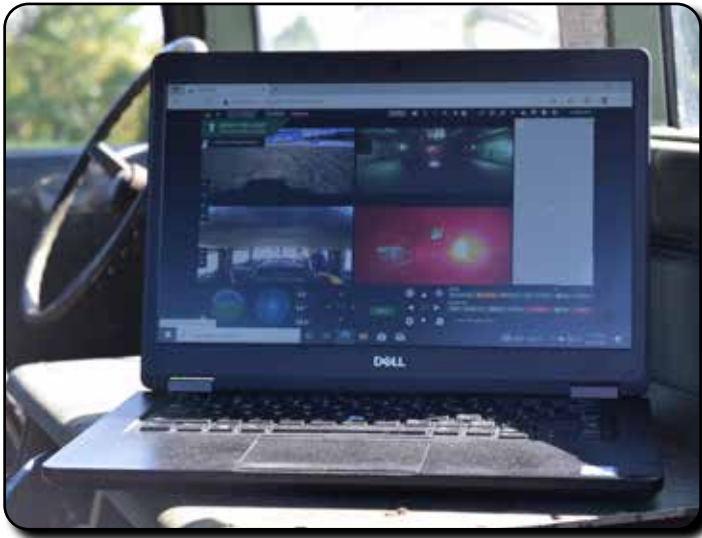
One-man setup with autonomous deployment



SPECIFICATIONS

Drone Tether Base Station	Mobile Base Station	Automated Hangar
Drone Enclosure	No enclosure	Automated open/close
Landing Guidance	GPS	GPS and IR Beacon
Charging Connectors	Via Tether	
Weight	36 lbs.	198 lbs.
Dimensions (L x W x H)	20" x 18" x 12" / 508 x 458 x 305 mm	46" x 46" x 28.1" / 1169 x 1169 x 713 mm
Cellular Connectivity	Yes	
Cable Connectivity	Yes	
System Health Sensors	No	Internal / external cameras
Environmental Sensors	Temperature, Wind, Direction	
Self-Contained CPU	Yes	
MIL-STD 810 Certified	No	Yes

CUSTOMER SUPPLIED LAPTOP



MOBILE BASE STATION



AUTOMATED HANGAR SYSTEM

Precision take-off and landing



SPECIFICATIONS



Camera	Nextvision Dragoneye2	Nextvision Nighthawk2-V
Optical Zoom	20x (1280 x 720)	20x (1280 x 720)
Digital Zoom	2x	2x
Total Zoom	40x	40x
MP	2.1	2.1
Visible Camera HFOV	60° - 3°	60° - 3°
IR	4x Digital Continuous Zoom (640 x 480)	
IR Frame Rate	9Hz	9Hz
IR Color Palettes	Yes	Yes
IR HFOV	32° - 8°	18° - 4.5°
Pan / Tilt	Non-continuous 360° / +135° to -45°	Non-continuous 360° / +80° to -45°
Video Recording	Yes - 32GB SD Card Required	
Additional Features	Tracking	Tracking
Weight with Gimbal	115 grams	320 grams
Country of Origin	Israel	Israel



Remote Controller	Samsung Active Controller*	Remote Controller w/ 8" Video*
Screen Size	8"	8"
Screen Resolution	1920 x 1200	1280 x 720
Brightness	480nit	350nit
Storage Capacity	128 GB	64 GB
Weight	2.13 lbs. / 964 grams	2.2 lbs. / 1000 grams
Size (L x W x H)	11.3" x 5.5" x 2.3" / 286 x 138 x 56 mm	11.8" x 6.3" x 1.6" / 300 x 160 x 40 mm
IP Rating	IP65	IP53
Country of Origin	South Korea / Denmark	China

*Does Not Comply with USA NDAA 848 Regulations



Lights	Night Scan X200
Number of Lights	2
Total Raw Lumens	40,000
Optics - Spot / Flood Combo	10° and 25°



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The Will-Burt Company, headquartered in Orrville, Ohio, USA, is the world's premier manufacturer of mobile telescoping masts, towers and pan and tilt positioners. We offer virtually every mobile payload elevation and integration solution for defense, government, first responders, cellular and mobile, broadcast, energy production and other markets. Will-Burt also offers contract manufacturing, metal fabrication, powder-coating, and rapid prototyping services. Will-Burt is an international company with offices and manufacturing in the USA, England, and Germany along with offices in Singapore and a joint venture in Turkey. All Will-Burt Company manufacturing locations are backed by a certified ISO 9001:2015 Quality Management System. Incorporated in 1918, Will-Burt is 100% employee-owned and is classified as a small business.



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