

MOBILE SENTRY™

Tethered Aerial System



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Compliant
NDA 848

MOBILE SENTRY Tethered Aerial System

Will-Burt's Mobile Sentry Tethered Aerial System is designed to deliver autonomous persistent video surveillance and illumination from elevations up to 200 feet / 60 meters for mission-critical operations. 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 and Blue UAS compliant. Mobile Sentry is the next step in the evolution of critical payload elevation from the world leader - Will-Burt.



Infrared Thermal Imaging



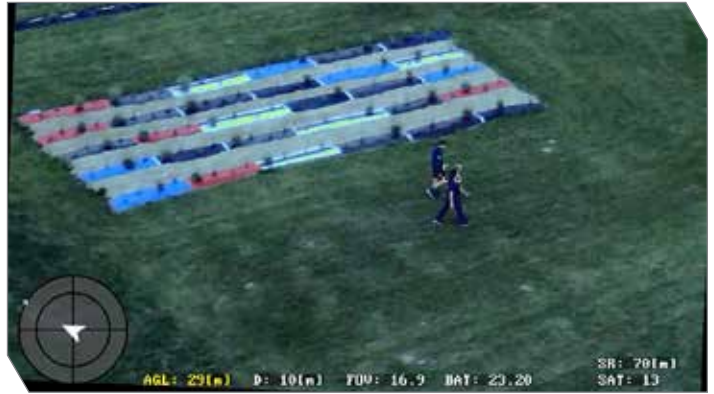
Scene Illumination



Persistent Surveillance



Persistent surveillance and tracking with powerful imager



Illuminate critical areas with powerful LED lighting



Infrared imager with color palettes



MOBILE SENTRY

Will-Burt's Mobile Sentry TAS is an all-weather design, heavy-lift, high-endurance UAS capable of long-term tethered flight. It supports multiple payloads simultaneously on a very low-EMI IP architecture.

ESSENTIAL FEATURES

- 200 ft. Tether Length
- 30 Days Continuous Flight
- RF Transparent Landing Gear
- Useful Payload: 8 lbs
- Cooled Cable Reel
- All-Weather Design

CAPABILITIES

Wide-area persistent surveillance, communications and lighting

- Autonomous flight tethered aerial system
- Multi-Day 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 200 feet / 60 meters

EASY OPERATION AND TRANSPORT

- Drone and Tethered Base Station for ultimate mobility
 - Lightweight, man-portable Mobile Base Station
- Large, tablet controller with high resolution video screen
- Safe - with redundant systems including battery back-up.





Command Center

Tether Box



Carrying Case



Payloads Pre-installed

Carrying Case	
Weight Empty	36 lb. 6 oz / 16.5 kg
Weight Packed	67 lb. 13 oz / 30.8 kg
Dimensions (L x W x H)	25.5 x 25.5 x 25.5 in. / 648 x 648 x 648 mm



No Assembly



SPECIFICATIONS

Mobile Sentry Tethered Drone	
Body	Nylon/Carbon Fiber
Payload(s)	LED light, EO/IR/Thermal cameras, RF Repeater/Booster
Back-Up Battery Power	Two 2600 mAh 6S LiPo
Autonomous Charging	Yes
Charging Time	Continuous
Weight: Empty	23 lb. 4 oz / 10.6 kg
Weight With Battery	25 lb. 9 oz/ 11.6 kg
Weight: Max with Payload	35 lbs. 9 oz / 16.2 kg
Wind Performance	25 mph / 40 kmph Continuous
Tethered Vehicle Following Speed	Up to 35 mph / 56 kmph
Weather Rating	IP 55 -Protection against Dust, Rain, Snow
Set-Up Time	Approx. 3 minutes



Storage case included with drone

Mobile Tethered Base Station	
Landing Guidance	GPS
Charging Connectors	Via Tether
Weight	62 lb. 5 oz / 28.3 kg
Dimensions (L x W x H)	16 x 21 x 11 in. / 407 x 534 x 280 mm
Cellular Connectivity	Yes
Cable Connectivity	Yes



SPECIFICATIONS

Nextvision Dragoneye2 Camera	
Optical Zoom	20x (1280 x 720)
Digital Zoom	2x
Total Zoom	40x
MP	2.1
Visible Camera HFOV	60° - 3°
IR	4x Digital Continuous Zoom (640 x 480)
IR Frame Rate	9Hz
IR Color Palettes	Yes
IR HFOV	32° - 8°
Pan / Tilt	Non-continuous 360° / +135° to -45°
Weight with Gimbal	125 grams
Country of Origin	Israel



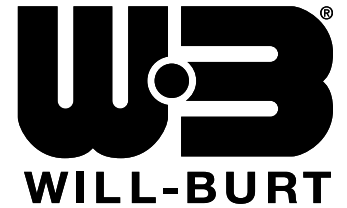
Video Processor Capabilities
Video Recording w/ GPS metadata (Micro SD Card Required)
EO/IR Object Tracking
License Plate Recognition
Human & Vehicle / Smoke & Fire / Human in water / Marine Vessel
Dual Visible/IR: Pic in Pic / Fusion / Side by Side
Geo Location
Video Compression
IP Streaming
LTE



Lights	
Number of Lights	1
Total Raw Lumens	2,646
Optics	Spot



CONTACT YOUR SALES REPRESENTATIVE TODAY



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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.