TELEDYNE FLIR

CERBERUS®

Trailer-based mobile surveillance system

APPLICATIONS

- AIRPORT SECURITY
- MILITARY FLIGHT LINE SECURITY
- PORT SECURITY
- PETROCHEMICAL FACILITY PROTECTION
- CRITICAL INFRASTRUCTURE PROTECTION
- PIPELINE SECURITY
- BORDER SECURITY



Cerberus is a rugged, trailer-based integrated long-range mobile surveillance system that rapidly deploys in austere and environmentally challenging environments to provide unmanned remote perimeter surveillance for weeks at a time. Available in multiple range configurations, Cerberus also networks its sensors with other Cerberus units, vehicles, and command and control nodes, providing unparalleled wide area perimeter security capability.

Built to support force protection, border surveillance, ISR, and target tracking as well as long-range perimeter security, Cerberus integrates radar and visible/thermal camera payloads ranging up to 30 km with slew-to-cue of cameras to radar tracks. Laser designator, laser rangefinder, laser pointer, and illuminator provide other personnel, vehicles, and C2 systems with target bearing and geo-reference coordinates to identify precise location and direction of the target.

FEATURES

WIDE AREA SITUATIONAL AWARENESS

HD EO/IR and FMCW radar provide 360° long-range threat detection out to 30 km.

HD CAMERA WAVELENGTH OPTIONS

Combine mid-wave infrared (MWIR) with visible/lowlight cameras, near IR and/or SWIR to cover up to four spectral bands.

INTEGRATED COMMAND & CONTROL

Cameleon™ Tactical tracks blending of multiple sensors, slew-to-cue of camera to radar, mapping functionality, zone management, video archiving/distribution and alarms.

MULTIPLE POWER OPTIONS

Run Cerberus on a generator, battery, shore power, or solar power.

CONTINUOUS PERIMETER SECURITY

Detect and track more than 500 targets simultaneously with radar, and identify and classify threats with imaging sensors.

SPECIFICATIONS

RADAR OPTIONS	
FMCW and Doppler options, Ka and X band, ranging from 700 m to 60 km	
CAMERA OPTIONS	
Field of View (FOV)	0.5 degrees to 40 degrees
Focal Length	13 mm to 1200 mm
CAMERA WAVELENGTH OPTIONS	
High Definition Imaging	High Definition (HD) Mid-Wave Infrared (MWIR) HD Long Wave Infrared (LWIR) Short Wave Infrared (SWIR) HD Color Zoom and Color Night Vision (CNV)
PAYLOAD OPTIONS	
Lasers	Laser Designator Laser Rangefinder Laser Pointer (NIR & SWIR wavelength)
Illuminators	NIR & SWIR wavelength
COMMAND & CONTROL	
Cameleon™ Tactical	Track fusion of multiple sensors, slew-to-cue of radar to camera, mapping functionality, zone management, video archiving and distribution, and alarm notification and management
Simultaneously Tracking	>500 Targets
ENVIRONMENTAL	
Power Options	Generator, Battery, Shore Power and Solar
Length (Trailer)	175 in. (444.5 cm) including the tongue
Width (Trailer)	87 in. (221 cm)
Trailer Height (mast stowed)	82 in (208.3 cm) no payload
Trailer Height (mast deployed)	243 in (617.2 cm) no payload
Mast Height (stowed)	47 in (119.4 cm)
Mast Height (deployed	19 FT (5.8 m)
Weight	Approximately 4200 lbs (1900 Kg)
STANDARD FEATURES	
Silent Mode Operation	
Differential GPS	
Weather Station	
Shore Power Connection	
Operator Control Panel	



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