



Features

- Human detection up to 12 km (radar) and 20 km (EO/IR)
- Vehicle detection up to 32 km
- Human identification up to 6 km
- EO/IR automatic slew-to-cue
- User-defined radar scan up to 360°
- System can be deployed in one hour
- Field replacement of components in under two minutes without tools
- Configurable size, weight, and power (SWaP) to match fixed and mobile operational requirements
- Control and output from all sensors integrated into a single screen
- Point-and-click interface requires only one operator and is easy to learn
- Ruggedized, portable command station available



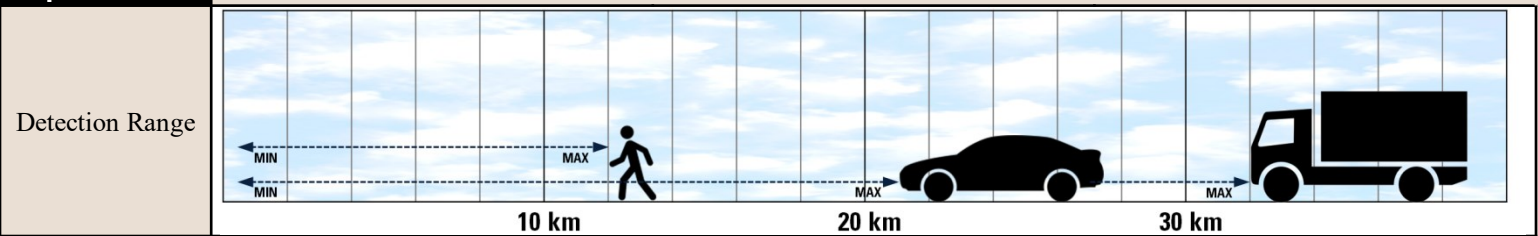
Export of these systems is ITAR-controlled pursuant to 22 CFR 120-130. U.S. Department of State licensing is required prior to shipment.

Representative systems shown. Additional system configurations are available to address particular use cases.



Capabilities

Detection ranges will vary based on sensors and environmental conditions.



Technical

Radar	<ul style="list-style-type: none"> User-definable horizontal coverage up to 360° Ku band pulse-Doppler, 55° vertical FOV Rotation/update rate up to 1 Hz Laser rangefinder (optional) 		
Infrared sensor	<ul style="list-style-type: none"> Cooled MWIR 640 x 480 (standard definition) 	<ul style="list-style-type: none"> Cooled MWIR 640 x 480 (standard definition) 	<ul style="list-style-type: none"> Cooled MWIR 1280 x 1024 (SVGA)
Infrared optics	<ul style="list-style-type: none"> 40–825 mm f/4 Horizontal FOV 13.7° to 0.7° 	<ul style="list-style-type: none"> 60–900 mm f/4 continuous zoom Horizontal FOV 9.2° to 0.61° 	<ul style="list-style-type: none"> 100–1200 mm f/4 continuous zoom Horizontal FOV 7.3° to 0.61°
Visible sensor	<ul style="list-style-type: none"> 640 x 480 CMOS (std definition) Minimum sensitivity 0.009 lux (≈ night with quarter moon) 	<ul style="list-style-type: none"> 640 x 480 CMOS (std definition) Minimum sensitivity 0.009 lux (≈ night with quarter moon) 	<ul style="list-style-type: none"> 1920 x 1080 CMOS (full HD) Minimum sensitivity 0.001 lux (≈ illumination only by starlight)
Visible optics	<ul style="list-style-type: none"> 3.4–122.4 mm (36x) cont. zoom Horizontal FOV 57.8° to 1.7° Auto focus 	<ul style="list-style-type: none"> 20–800 mm f/4 continuous zoom Horizontal FOV 27° to 0.7° Auto focus 	<ul style="list-style-type: none"> 20–800 mm f/4 continuous zoom Horizontal FOV 22° to 0.55° Auto focus
Positioner	<ul style="list-style-type: none"> Coverage 360° pan and ±90° tilt Maximum pan/tilt speed 100°/sec, ensuring slew-to-target in under 2 seconds Minimum pan/tilt speed 0.002°/sec, equivalent to 0.6 km/hr at 5 km Zero-backlash drive train for maximum precision and accuracy (±0.009° or better) Tool-free and cable-free payload attachment and removal 2-axis gyro stabilization (optional) 		
Control	Available with either serial or IP control architecture		IP architecture only
Physical			
Power	Normal operation __ kW @ 120 VAC Max (fully heated) __ kW @ 120 VAC	Normal operation __ kW @ 120 VAC Max (fully heated) __ kW @ 120 VAC	Normal operation __ kW @ 120 VAC Max (fully heated) __ kW @ 120 VAC
Mounting	1.8 m high on tripod	6 m high tower on trailer	18 m high on mobile tower(s)
Weight	91 kg, plus tripod	101 kg, plus trailer & tower	113 kg, plus tower
Temperature	-40 °C to +60 °C (operational) / -46 °C to +85 °C (storage)		
Ratings	IEC components ≥IP66, MIL-STD-810F/G, MIL-STD-463, 1000-hour ASTM B117, ≥30000-hour MTBCF		

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