

SYMPHONY® AIRFIELD RADAR SYSTEM (ARS)

Complete Solution for Security and Non-Cooperative Surveillance

Symphony ARS provides state-of-the-art protection for the entire airfield, not just the perimeter. Offered at a fraction of the cost of traditional radar technologies, Symphony ARS covers up to a mile in every direction. This ground-breaking technology improves the situational awareness and efficiency of airfield security and operations personnel.

The Symphony ARS is a turn-key delivery, which simplifies installation. Evaluated for the Federal Aviation Administration (FAA) by National Safe Skies Alliance, the Symphony ARS radar is in operation at 20 European airports and is now available in the U.S.



Airfield Surveillance, Security, Wildlife Mitigation and Ramp Area Monitoring

BENEFITS

- > Wide Beam 360° Radar – Covers the airfield like a streetlight, unlike narrow beam radars that are more like a flashlight
- > Advanced Camera System – Thermal imager, HD color and Network Video Recorder provide realtime assessment and forensics
- > Classification – The system knows the difference between people or wildlife and planes or vehicles
- > User Defined Rules – Incorporate location, classification, speed, size, direction and previous behavior, to reduce false alarms and only respond to real threats



RADAR	ARS	ARS-X
Installation Type	Ground level slab	Rooftop to 30' elevation
Beamwidth – Elevation	3 degrees	spread beam
Beamwidth – Azimuth	1 degree	1 degree
Max Detection Range – Vehicle	5248 feet	4920 feet
Max Detection Range – Person	3280 feet	2490 feet
Max Detection Range – Wildlife	1640 feet	1245 feet
Resolution	10 inches	10 inches
Field of View	360 degrees	360 degrees
Scan Rate	216 degrees / second	216 degrees / second
Frequency	77GHz, no FCC license required in airports	
CAMERA		
Identification Range – Person	3280 Feet	
Visible Camera Block	36x color/mono total day/night camera	
Imager	¼" ExView HAD	
Zoom – Optical, Digital	36x, 12x	
Horizontal View Angle	2.7°(T) – 57.8°(W)	
Lens Size	3.4 – 122.4mm	
Min Day Sensitivity - Color	1.4 Lux	
Min Night Sensitivity - Mono	0.1 Lux	
Infrared Camera	FLIR core, 640x480 detector, 100mm lens, range 3280 feet	
SENSOR STAND		
Weight	172 pounds	
Height	122 inches	
Power Requirement	120 VAC, 100 VA	
Wireless Network	5GHz, 100Mbps, 10 mile range, no FCC license required	
Operating Temperature Range	-40° to +140° F, -40° to +60° C	
IP Rating	IP67	
Relay Outputs	6, Form A, 120 VAC @0.5 A or 30 VDC @ 1 A	
COMMAND & CONTROL		
Workstation	Dell Inspiron 8GB 1TB Windows 8	
Monitor	Dell UltraSharp U2412M 24-inch Widescreen Flat Panel	
Remote Monitoring	Yes, using laptop, tablet, or smartphone	
Network Video Recorder Capacity	4 TB	
Map Types	Google Earth, Aerial Photographs, Open Street Maps	
Rule Types	Approach, area, numeric, compound, history	
Behavior Assessment	Location, movement, duration, path, speed, number of rule breaks, time	
Object Classification	Yes, configurable with confidence level; Used as input to rules.	
Response Types	Follow with camera, record CCTV, audible alarm, SMS alarm, fire wildlife mitigation device, open or close gate, control warning lights	
Max Track Zones	No fixed limit	
Max Targets Tracked	No fixed limit	
Multiple ARS Stands Supported	Up to 4 per workstation, seamless integration of radar and cameras	
Other Sensors Supported	GPS for Blue Force Tracking, broken beam, PIR, relay input	

FEATURES

- > Tracking Areas – Customize tracking areas with unique parameters, rules and responses
- > Interfaces with Existing Systems – Provides a two-way interface with legacy airport access control and surveillance systems
- > 24x7 remote and onsite hardware and software support
- > Integrated into Symphony OpsVue™ and MobileVue for improved situational awareness for airfield and security personnel

www.symphonycdm.com



Symphony® Airfield Radar System

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