

LSN (LifeSafetyNow)

On-Board Early Warning Protection Systems

In 1979, David M. Zutler along with his brother Michael founded Westec Security in Aspen, Colorado. The Zutler brothers have provided Life Safety and Security Protection for some of the most prestigious estates in Aspen, Colorado, as well as Beverly Hills, California.

In the development of the *LSN (LifeSafetyNow)* Early Warning Protection System, Mr. Zutler utilized his vast experience of providing Life Safety and Security Protection for "Land Based Estates", and integrated that into providing this much needed Life Safety Protection for Superyachts or "Floating Estates"

"Early Warning" alarms exist for all the systems aboard yachts. Ask yourself, why then is there not an "Early Warning" notification system to detect, and protect against unwanted intruders approaching a yacht undetected. There is now... The *LSN* was developed to address this very important Life Safety issue, and other issues as well.

For perimeter protection the *LSN* utilizes an easily configured crew designated "Early Warning Protection Zone". The "Protection Zone" is patrolled by our state of the art, high speed (60 rpm) radar. What makes our *LSN* radar unique is not only its speed, but its ability for continuous locked-on tracking of fast moving targets (rib boat, wave runners, etc.).

Two additional major benefits of the *LSN* radar are its size, and its' extremely low radiated power output.

The *LSN* radar is approximately 14"x17" and is encased in a low profile dome. Therefore, it can be easily incorporated into new, or existing mast configurations. In comparison an X-band navigational radar requires a 8 foot rotating wing

Another major benefit is that the *LSN* radar has a radiated power output of only .5 watts (equal to a cell phone). Because of its extremely low power output the *LSN* radar can be operational while in a marina, or close anchorage environments. Both of which are where most tender thefts, intrusions, theft of valuables, and other confrontational situations occur. In comparison X-band navigational radar has a power output of approximately 10,000 watts, therefore cannot be used in either a marina, or close anchorage environments.

In most cases the *LSN* can utilize existing CCTV and Thermal Imaging Cameras for visual confirmation of trespass and perimeter intrusion. The *LSN* can be viewed on designated security monitors, or additional selective monitors throughout the Yacht.

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LSN's Early Warning Perimeter Protection System utilizes proprietary high speed radar & software, to detect intruders in a crew designated Protection Zone. Locked on target tracking together with thermal imaging/cctv camera assessment increases the ability for a timely and appropriate crew response.

- Programmable Radar Protection Zones prevents false alarms from non-secure areas
- Expansive Area Surveillance
- Detect and Track BEFORE Intrusion
- Continuous Tracking of Target and Reporting AFTER Intrusion...
- Unique combination of Security Knowledge, and State of the Art Technology
- Vulnerability Assessment and Appropriate Response within Crew Designated Protection Zone
- Early Warning Perimeter Protection
- On- Board Intrusion Detection
- Video Management
- Integration of Existing Cameras
- Sonar Integration
- Spotlight Integration



The screenshot shows the LSN software interface. On the left, there is a live video feed of a boat. On the right, there is a radar map showing the boat's position and movement. Below the video feed, there is a table with the following data:

Distance	Speed (km/h)	Latitude	Longitude	Meters	Heading (deg)
Track (ID)	51.80	26.760467	-80.049085	177.17	
Object ID 43	1.89	26.751137	-80.043217	178.73	
Object ID 42	5.26	26.768697	-80.046961	283.6	

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LSN's command & control software allows for the following options:

24/7 Land Based Monitoring Center Capabilities:

- 24/7 Medical Alert with live streaming video capabilities for expedited evaluation of patient by Doctor on call services.
- 24/7 Incident reporting & dispatch based upon pre-determined protocols
- 24/7 Yacht tracking & reporting capabilities based upon a filed float plan.
- 24/7 Smoke & Fire Detection
- 24/7 Discreet Emergency notification while under duress

Additional Onboard Command and Control Capabilities Include:

- Monitoring of Engine, Generators, Pumps, Tanks, Alarms, etc.
- Integration Platform, Course, Speed, Radar, and Charts
- Integration of Existing Cameras, Access Controls, and other Sensor Networks
- Personnel Management, including: Custom Fields, Assets, Crew History, etc.
- Permissions assigned by user-created presets with individual customization
- Multiple credentials per individual, crew, guests, etc.
- Complete history of all credentials ever issued
- Charter scheduling, client requests, condition of Yacht post charter, etc.

“Your Life Safety Is Our Main Concern”

www.LifeSafetyNow.com



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