

# AVIPS

Vessel Information & Monitoring at it's best

## AVIPS FOR SMALL TO MEDIUM SIZE PORTS

AVIPS (Automatic Vessel Identification for Ports and Surveillance) has been designed specifically for small to medium sized ports and other authorities who have a need for monitoring vessels within it's waters, but can not afford the very expensive VTMS's that are common today.

As is often the case, ports need to frequently upgrade their systems. As the needs of the port changes; or if you decide that you would like additional functionality, you can easily upgrade AVIPS. Because it was developed purposely to meet dynamic growth, all the necessary tools for upgrading are built into the software. This approach to growth suites budget challenges that Port Management often face.

Adding features such as RADAR, ARPA or a CCTV system turn out to be very simple and the same ease of use is carried forward from your existing technology.

## AIS IS THE CORE TECHNOLOGY

Utilizing AIS as the underlying technology for AVIPS, we are able to deliver state of the art solutions that will continue to be enhanced as the implementation of AIS grows.

Now that most SOLAS vessels are complying with the IMO regulations it is natural that this technology is quickly becoming the best possible tool for monitoring a ship or ships.

Specific vessel information is automatically being broadcast over the standard AIS VHF frequencies. AVIPS takes advantage of this by capturing the data, and graphically displaying it directly into the monitor in a meaningful manner.

We then can cross reference this information with our VITALS database and instantly give the full picture of the vessels. This includes ship agents, owners, pilot information, last port of call, ship movements and more.

When a vessel comes within the range of the Coast or Port, the AIS begins the monitoring process adding an icon to the electronic chart along with that ships name. Additional information about that vessel is a mere click of the mouse away.

This automates what is normally a tedious and error prone manual process.

This information is then immediately available to all required service providers over the internet.

The ability of AVIPS to display multiple chart areas means you can do the work of many monitors at one location. You can view vessels in different locations around the port by zooming in on them or viewing ships in neighboring ports as well as along a coastline.



## SURVEILLANCE IS NEEDED NOW MORE THAN EVER

With the ever increasing need for security and knowledge of what is happening around the port and coastline AVIPS can provide you with exceptional and accurate information automatically.

Combining a sophisticated data base with the automatic information coming in via AIS Transponders we are able to give you information about an approaching vessel with minimal or no interaction needed. Zone guards, collision monitoring, speed and more are alarmed when violated.

If there is a requirement for additional security a CCTV system can be included and added to the basic system. The CCTV provides multiple viewing of locations; several cameras can be displayed on a single monitor.

Potential collisions are being automatically monitored at all times using the criteria as set out by the port and alarmed should an incident be about to occur based on the rules set out.

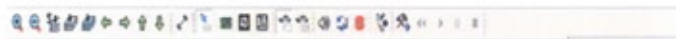


## **EASE OF USE**

In developing AVIPS one of the primary goals was to ensure the user interface was intuitive and that the learning curve was very short.

To do this we used the example of the world standard Windows interface. This means that anyone familiar with Windows should be able to learn how to effectively use the powerful features and functions of AVIPS very quickly.

By implementing icons as well as drop down menus you can chose which is best for you.



## **INFORMATION AT YOUR FINGERS**

When you need to know something, you need to know it now and in a format that is easy to read to get to the part that matters the most.

With AVIPS, you get all relevant AIS data about vessels within range. You can see those ships and get textual information about each one.

As soon as a target comes within range of the AIS Transponder AVIPS begins to display information about that ship.

This information includes:

*Ship Name, MMSI, Call Sign, Range, Bearing, Ship Type, Length and Beam, Antennae Positioning, the Ships Latitude and Longitude, Heading, COG, SOG, ROT, Ship Status (Underway, at Anchor, etc.), the Draft, Cargo Type, Destination, Last Fix, ETA, and Persons on Board.*

This data can be sorted so that you can quickly locate the vessel in question.

AVIPS when combined with our VITALS (Vessel Information Tracking and Logging System), the manual process of tracking a vessel from the point where it has been reported as coming to your port to final billing has been automated inside one suite of product.

## **MONITORING VESSELS**

Because AIS is not hindered by such things as islands, hills, super structures, or other vessels, you are able to monitor the vessels much closer. AVIPS even places the name of all vessels automatically on the display for you.

Implementation of a complete coastal monitoring system is well within the capability of AVIPS.

If a particular vessel is needed to be focused on, you can isolate it in its own window. That allows you to continue on working with the other vessels.

If there is an incident, the very powerful history replay feature allows you to isolate the single vessel in question or have all AIS traffic replay as you wish. The history is kept for 30 days and is only accessible by password.

## **FEATURE RICH SOFTWARE**

Although AVIPS is low in price, it is packed with features. The following is a small example of what additional functions can be expected when you install AVIPS.

- ✓ Distance between vessels
- ✓ Automatic monitoring for collision avoidance
- ✓ Send and receive messages
- ✓ Automation of sending notices to mariners
- ✓ High quality vector charts
- ✓ Change Ship Symbols
- ✓ Display of available environmental data
- ✓ Alarms
- ✓ Integration to CCTV
- ✓ Integration to Radar
- ✓ Zoom in and Out
- ✓ Isolate vessels for specific monitoring purposes
- ✓ Globally networked
- ✓ Adjustable Zone Guards
- ✓ Ship safety inventory
- ✓ More



## **Sea and Land Technologies Pte Ltd**

65 Tuas Avenue 1  
Singapore 639508

Tel : (65) 6518 0777  
Fax : (65) 6563 0366

Email: [enquiry@sea-landtech.com.sg](mailto:enquiry@sea-landtech.com.sg)  
Web Site : <http://www.sea-landtech.com.sg>



Certificate No. 162043  
ISSUED 06/09/2001  
ISSUED 06/09/2001  
ISSUED 06/09/2001