

## KEY FEATURES



3 Axis Compass accurate to 0.1 degree

Integrated GPS receiver

Integrated with Ultra-High and High performance compact Phased Array antennas

Multiple antenna range options

Integrated High Performance Receiver and DSP system

Integrated 3 axis compass accurate to 0.1 degrees

Full VGA Nomad® display and SWVGA YUMA® display

Integrated targeting, hunting and mapping software

Playback and record capability



## SAR ELT 121.5/243 MHZ PROGRAM



The Firestorm "Tigerstrike" patent pending technology has been designed and developed to hunt and locate civilian and military emergency locator transmitters. It is the first in series of "iRDF" (intelligent Radio Direction Finding) solutions being offered by Firestorm. These iRDF® products provide a compact high performance device that weighs 3.2 lbs and can hunt an ELT over 50 miles.

Unlike Loop and Doppler antenna systems, the very selective directional Phased Array antenna has been demonstrated to have a 2 degree aperture at 2 kms, or 20 sq. meters area.

The Tigerstrike® system is not dependant on operator intervention during the "Hunt" phase, reducing the human interpretation error possibility, so every user hunts like a PRO.

The Tigerstrike® is comprised of the following elements:

- 1) Phased Array Antenna
- 2) High Performance Receiver
- 3) State of the Art DSP processing
- 4) Integration to Trimble Nomad PDA or Yuma tablet computer

5) Automatic or Manual A.I. based Hunting System

6) Automatic Mapping of recorded results

The Compact Phased Array antenna design is superior to a 4 element 42" YAGI antenna, yet is compact and has only a 12 inch boom length. With it's flexible antennas, it is Search and Rescue (SAR) ready.

The software controlled high performance radio delivers flexibility of 100 - 500 Mhz capability using interchangeable antenna systems. All mode of transmissions are detectable. The Tigerstrike® has a -132 dbm sensitivity.

The Digital Signal Processing subsystem, takes the output from the receiver and marries it to the 3 axis compass that is accurate to 0.1 degree, providing unsurpassed SAR data. The DSP coordinates with the high accuracy Trimble GPS, signal strength and compass data to provide a real time data stream to the Nomad® rugged handheld computer or YUMA® rugged tablet computer.

## Firestorm Tigerstrike® Mapping Interface



Firestorm has developed an Artificial Intelligence based hunting technology that runs on both the YUMA® tablet computer and Nomad® PDA. The targeting system can run in either automatic or manual mode. In auto mode, the operator starts the Hunt and rotates 360 degrees one way and then 360 degrees the other way, and in 40 seconds the "Hunt" phase is over.

The Mapping system then displays the results and determines the ridge lines along the vector providing GPS locations of each of the ridge lines on that heading in seconds. Truly a revolution in SAR technology.

The results are recorded and can be played back on a PC version of the Tigerstrike® software to provide additional INTEL to the Mission Base .

OPTIONAL ANTENNA CONFIGURATIONS				
	Performance	Band	Frequency	Availability
SAR Civilian	ULTRA	Aviation	121.500	Now
CSAR Military	ULTRA	Military	243.000	Now
136 - 150 Mhz	ULTRA	HAM VHF	136 - 150 Mhz	Now
150 - 162 Mhz	ULTRA	Commercial VHF	150 - 162 Mhz	Spring 2011
160 - 174 Mhz	ULTRA	Commercial VHF	160 - 174 Mhz	Spring 2011
136 - 174 Mhz	HIGH	Wide VHF	136 - 174 Mhz	Spring 2011
212 - 220 Mhz	ULTRA	Alzheimer/HAM	212 - 220 Mhz	Now
SAR Civilian	ULTRA	406 Data Beacon	406 - 407 Mhz	Now
380 - 450 Mhz	HIGH	HAM UHF	380 - 450 Mhz	Spring 2011
450 - 512 Mhz	HIGH	Commercial UHF	450 - 512 Mhz	Spring 2011

OPTIONAL COMMUNICATION CONFIGURATIONS			
	Performance	Band	Availability
Internal Modem	MEDIUM	Cell 2G+	Now
Iridium Modem	LOW	Satellite	Spring 2011
USB Modem	ULTRA	Cell 4G	Now

The Nomad® version is based on the Windows Mobile 6.5 and offers a smaller footprint and lower cost version of the Tigerstrike®.

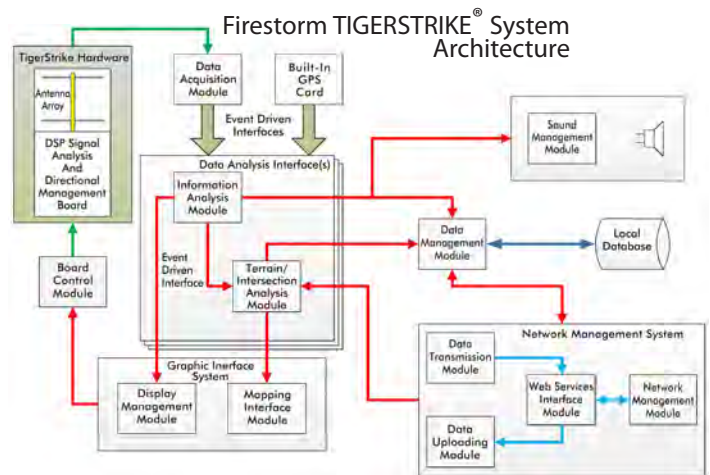
The YUMA® version offers longer duration batteries and a 7" screen. The Windows 7 version offers better mapping resolution and all the functionality of the current laptop fielded by the teams.

Communications can be handled via the optional module that includes the Iridium Satellite Modem for two way secure remote communications with low power usage.

Tigerstrikes are capable of communicating the results of their readings to a Mission Base and each other's device within minutes.

The Multi-mission capability means this same device can preform Combat Search and Rescue (CSAR) with just an antenna change.

One of the many unique features of the Tigerstrike system is that it is capable of detecting all of the 406 beacon frequencies. The Tigerstrike will decode the databurst and locate the GPS coordinates on the mapping screen. Then the searcher location from the target, with heading and distance. This can be used in aircraft as well as ground teams.



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