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Radio Direction Finding Mapping Software

The success of any DF System is in its capability to use and share local & remote DF resources efficiently between members of the task force.

Buenos Aires, Argentina – Mobile Installation on DF Truck using military Grade Itronix Computer

HuntMaster - Radar

Clear Persistence Rst Timer
Time: 6:39:53 PM Elapsed: 00:15:04

HuntMaster - Map

25° 48.8230' N 080° 07.5916' W MAP
25° 48.7364' N 080° 07.8291' W TRIANG
Spd: --- -- Hdg: 000° N MLPR Br. ---
Zoom: 0.7 Mi

IP DF Controller

ID #0 - DefCon2b (Local)
DOA: **284.1** Mode: **285**
True North
Signal Quality Muting
0---200---400---600---800---999

#	Name	Dist	Bear
2	Gas Station	0.8	013
1	Headquarters	1.1	285

Waypoint Navigation Info

Center Exit

Google Earth Map - USA - Miami Beach.map
Hunt Log File (.htm)
6:39 PM 12/12/2010

Miami, USA – Training triangulation using a **DFR-1000B** (Wideband Mobile Radio Direction System) and HuntMaster on Miami Beach

HuntMaster is an advanced information gathering tool, capable of improving the performance of any DF Mission. Thanks to its advanced displaying features, GPS localization, Heading (Mobile Units only), and DF Bearings are all displayed at a glance overlaid on automatically loaded Google Maps (optional).

HuntMaster Radio Direction Finding Software Suit integrates in a single application package all the necessary features to efficiently track down an RF source in record time! All mission information is recorded for later analysis.

HuntMaster is user friendly and an easy to operate PC based software. Has build-in seamless integration to [RDF Products](#) series of DF Processor hardware units. Expanding DF capabilities from HF well into the microwave bands. Deployment of these next level DF Systems is a simple task even for non-technical personnel. All system is digitally controlled by one USB connection to the computer.

HuntMaster Express software suit has different software modules to fulfill both civilian and military requirements. As a PC based software solution, HuntMaster Express can be customized to operate on desktop computers, or under rugged military grade laptop portable devices for mobile DF applications. Using the optional TCP/IP communication module, the product is upgraded into HuntMaster Net. A full featured multi-site DF tool where data coming in from a series of remote DF stations (both mobile or fix sites) are clearly displayed over a georeferenced map of the terrain.



Tel Aviv, Israel – Mobile Installation, visible DFP-1000B, KVH-1000 Digital Compass, Garmin GPS, AOR5000 Radio Receiver, Spectrum Analyzer and Laptop running HuntMaster

With its TCP/IP capabilities, HuntMaster Net can assign different targets to the pool of DF stations available in the network (up to 223 DF stations). Multiple objectives can therefore be track at the same time. Only nearby DF stations can be assigned to a specific target, while the other DF

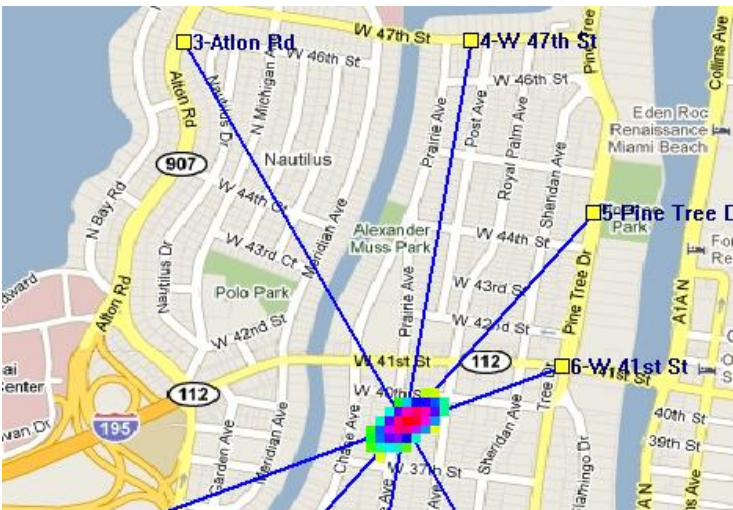
stations can be used to track down another target. DF Network resources can be reassigned based on mission requirements under total software control.

HuntMaster's Net DF operators can be located at any DF Site, or they may be at a Control Center far away of all sites. Only TCP/IP connectivity is required between all sites of the network. DF Operators can choose which DF Stations they are going to be using in each mission. DF information will start flowing from those DF Sites, into HuntMaster's Map Window. Automatic triangulations will be displayed on the map using the DF information that's coming in.



Upington, South Africa – ATNS Airport Authority ADF Antenna Installation

When working with DF triangulations, the operator may find that bearing lines may not intersect in a precise point over the map. In older days, when this happened, a visual estimation of the hottest spot was done by skilled DF operators. But even for the most experienced operator, it was difficult to determine the region with the highest probability of finding the unknown RF source. To simplify this difficult subjective task, HuntMaster uses sophisticated algorithms to estimate this area. Displaying as an overlay on top of the map what we call the MLPR (Maximum Likelihood Probabilistic Region) an area with 95% probability of finding the origin of the transmission.



Miami, USA – 95% probability MLPR ellipse view (bottom center)



Singapore – Singapore's Navy rapid interception vessels equipped with DF Triangulation capabilities

The MLPR algorithm is so powerful, than even multiple transmissions from different locations are predicted by MLPR as two or more separated ellipses! This is the only software in the world that can estimate the existence of multiple sequential transmission sources on the same frequency!

Several security features are also available as plug-ins upon request. From military grade encryption for all TCP/IP data links between DF sites to decentralized data logging so that in the even of loosing a DF site all information retrieved by the system is stored on a remote location.

#	Name	Type	Latitude	Longitude	Altitude	DOA	Time	Date	Description
1	Headquarters	Fix	25° 46.42605' N	80° 09.33380' W	.....	.....	6:28:17 PM	12/12/10	None
2	Gas Station	Fix	25° 46.91402' N	80° 07.95090' W	.....	.....	6:28:25 PM	12/12/10	None
3	Aillon Rd	Mobile	25° 49.30504' N	80° 08.15186' W	.....	150°	6:31:07 PM	12/12/10	435.345MHz
4	W 47th St	Mobile	25° 49.30698' N	80° 07.72614' W	.....	190°	6:31:47 PM	12/12/10	435.345MHz
5	Pine Tree Dr	Mobile	25° 49.05201' N	80° 07.54486' W	.....	222°	6:31:57 PM	12/12/10	435.345MHz
6	W 41st St	Mobile	25° 48.82301' N	80° 07.59110' W	.....	250°	6:32:38 PM	12/12/10	435.345MHz

Waypoint Database View. Each DF measurement is logged, together with an optional name, and description



Sde Warburg, Israel – DF equipped VAN for spectrum enforcement, during a remote Skype & Remote Desktop Web Training Seminar

Main Features of HuntMaster Software Suit

At the end of the day, small issues do make a great difference in overall system performance.

- Designed with stringent military specifications
- Guaranteed operation with certified hardware from [RDF Products](#)
- Simple operation, one button triangulation!
- Unattended DF measurements based on time or distance
- Automatic map switching. Don't ever have to open a map manually again!
- Simple and flexible wired or wireless TCP/IP interconnection options between local and remote DF sites
- DF Mission recording / playback
- Various operating modes supported: Touch Screen Compatible, or Mouse free operation for comfortable laptop operation (by means of keyboard shortcuts)
- Google Maps Support. Customer can order his HuntMaster License with a complete set of multiple resolution map datasets for the cities/countries where operation will take place. Google Maps are downloaded and converted into HuntMaster .MAP file format
- More than 10 years of experience supplying DF Mapping software to top Signal Intelligence Agencies around the world

Need additional info?

Contact us by [mail](#), or just download [HuntMaster Demo](#) and have your own firsthand experience on this exciting product.