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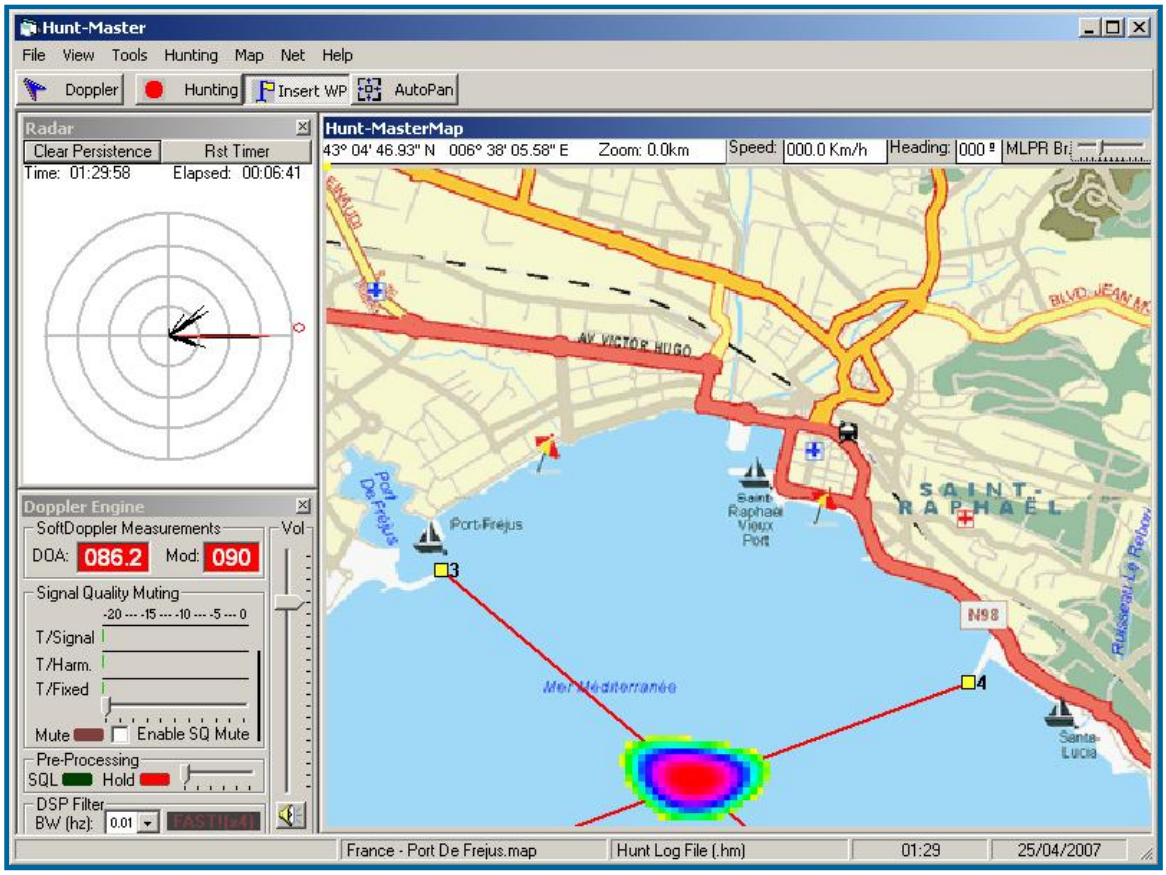
Radio Direction Finding Software



HuntMaster is an artificial intelligence aided Radio Direction Finding Software Suit. Integrating in a single application package all the necessary features to efficiently track down an electromagnetic signal source in record time. It uses state of the art DSP (Digital Signal Processing) technologies together with a friendly and easy to operate PC based user interface. It has been implemented in conjunction with "RDF Products" DF Processor hardware units, therefore both soft & hard systems make up a perfect option to deploy a high precision DF network.

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 georeferenciated map of the terrain.

With it's 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. Maximizing the use of the limited DF resources available.

HuntMaster's Net DF operator can be located at any of the DF stations. On a fixed site, on a mobile vehicle, or at a distant place connected thru a TCP/IP capable network. From his comfortable location, he can choose to see at a

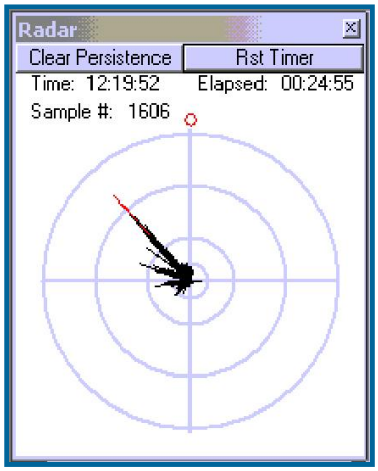
glance all the DOA (Direction of Arrival) information of any of the DF systems in the network. Even better than that, he can select to plot that information and perform a virtual triangulation analysis over a georeferenciated map chart with the DF information that's coming in.

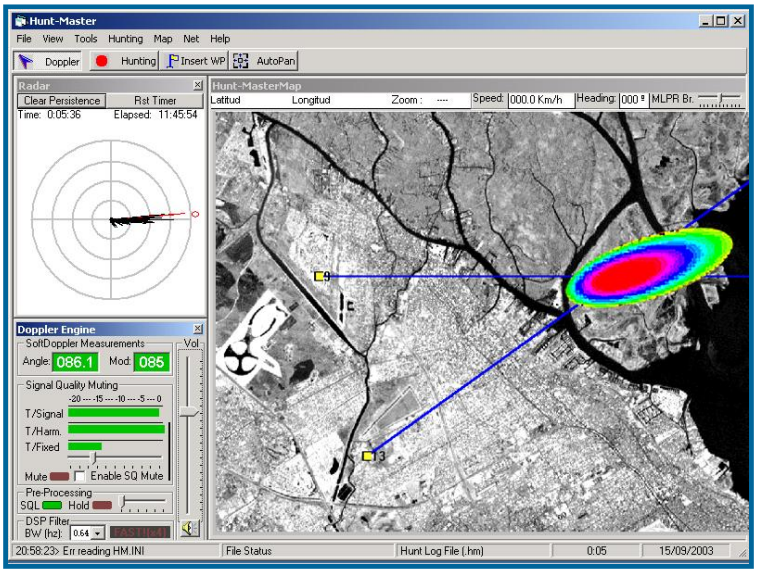
When doing DF triangulations, the operator may find that the bearing lines may not intersect in a precise point over the map. In older days, when this happened, a visual estimation of the hottest spot was done by skilled DF operators. But even to the most experienced operator, it was difficult to determine the region of highest probability to find the transmitter. To simplify this difficult subjective task, HuntMaster computes a sophisticated post-processing algorithm to resolve this shortcoming. Displaying as an overlay on top of the map what we call the MLPR (Maximum Likelihood Probabilistic Region) an area where the probability of finding the origin of the transmission is highest.

A very advanced econometric Homosedastic Maximum Likelihood Probabilistic Test is done on all the DF bearings plotted by the operator. The MLPR algorithm then assigns probabilities (of finding the transmitter on each portion of the screen). A colored layer over the map displays the areas with highest probably (this ends up making an ellipse, or any other geometry depending on the case).

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 predict the existence of multiple sequential sources of transmission on a 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.





Main Features of *HuntMaster Express* and *HuntMaster Net*

- Designed with stringent military specifications but at an affordable price
- Seamless guaranteed operation with all "RDF Products" DF systems
- Simple operation. Only one button has to be pressed to have an MLPR display of the most probable area of finding the transmission source
- Support for Control and Backup DF operator terminals (HuntMaster Net only)
- Capacity for creating sub-networks where different targets are addressed by subsets of DF units (HuntMaster Net only)
- Wired or wireless TCP/IP communication between local and remote sites. Internet capable, with latency compensation via time aligned DOA sampling (HuntMaster Net only)
- Mobile DF sites are GPS georeferenciated
- Automatic DF information logging in hard drive for future analysis. Even off-line triangulations can be done with data obtained at an earlier point in time