# DOPPLER SYSTEMS DDF7001 DOPPLER DIRECTION FINDER

JOHN MAXWELL, WOVG





## WHAT IS DOPPLER UNIT?

Doppler is a way of locating radio signals by using rotational doppler shift from a switched antenna array and deriving direction information from that doppler shift.

This information can be superimposed onto a map, whereby creating overlays to show precise location of transmitters with as few as two bearings.

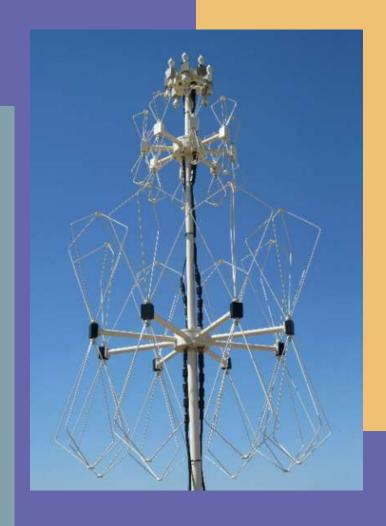


### DOPPLER TOOLS

#### Doppler Systems in Arizona supplies very

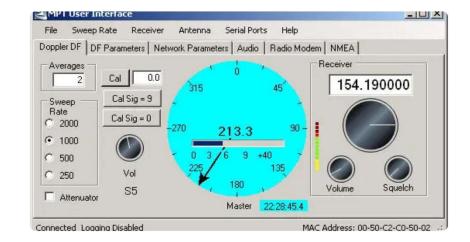
high quality direction finders which utilizes "TargetTrack" Software with their units.

It is the 'visual interface' for direction finding which overlays DF data in real time on a map. This is our choice for finding transmitters for it's reliability.



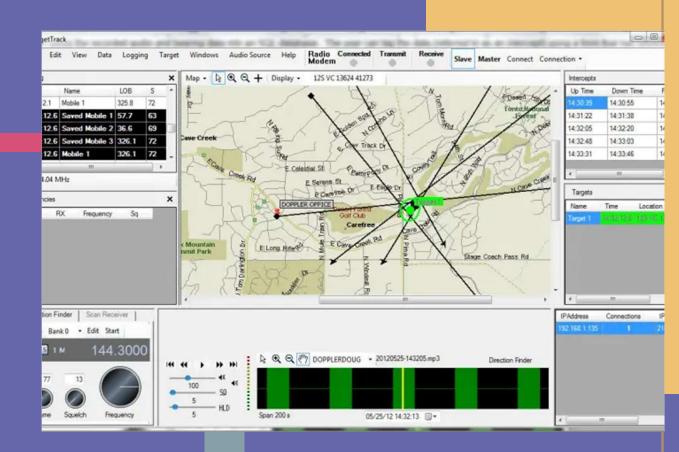
## Doppler Systems Tools

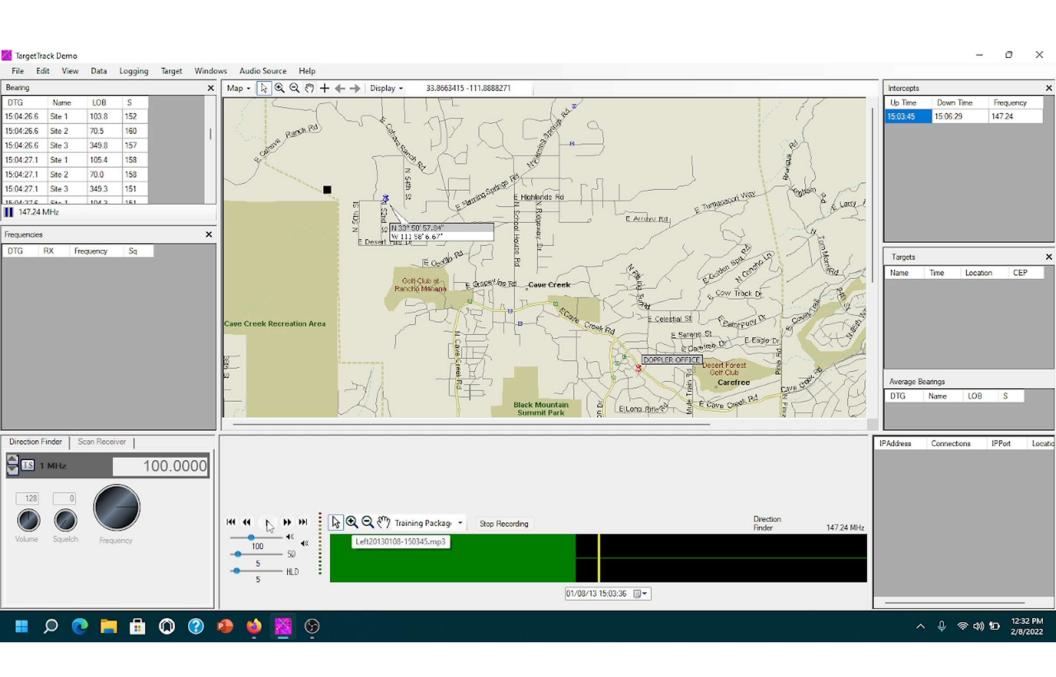
- Rocky Mountain Ham Radio has several Doppler Systems, DDF7001 units deployed with mobile and fixed site antenna systems.
- 2. With network connectivity to these receivers, that can be quickly tasked to provide a bearing to a transmitter.
- 3. With the addition of Doppler Systems "TargetTrack" software, the networking of multiple units is trivial and the software does the heavy lifting.
- 4. The MPT display at the right is the software used to calibrate and modify the parameters of the DDF7001.



## DOPPLER USES

Quickly locating stuck transmitters
Locating bad actors
Use for Narrow and Wideband FM
Use for DMR
Remote units
Simple integration of many units
Record of evidence for playback





## WHAT DOES THIS MEAN?

This means that our tools are very reliable, and portable. The systems are remotable and nearly impossible to defeat.

A 20ms signal is all that is needed.

