



rfDetective-FM is an engineering tool to help you locate frequencies for new FM broadcasting stations & change class or power of existing stations. It also displays antenna height, location, channel and more of existing broadcasting stations.

rfDetective-FM offers a host of advanced tools, many of which are not found in similar programs or are offered as expensive additions.

Although **rfDetective-FM** offers sophisticated features, the user interface is intuitive and simple to use. **rfDetective-FM's** power makes it useful to the experienced engineer while its easy-to-use menus make it friendly for station and group owners.

The screenshot shows the rfDetective-FM software interface. On the left, there are control panels for Class (A), Int'l Class (A), and a frequency of 106.5 MHz. Below these are status checkboxes for Licensed, Const. Permit, Application, Addition, Vacant/Resvd., and Deleted. A range of 91 km and clearance of -0.5 km are shown. An AutoScan for Class A window is open, displaying a table of channels and their minimum clearances. The main display is a map of Texas with radio signal coverage circles for various stations like KMDX, KCHX, and KRNL. A text box on the right highlights the main output display showing both tabular and map formats. At the bottom, a detailed data table is visible.

CallSign	Latitude	Longitude	City	State	Service	Channel	Class	Int'l Cla	Status	Min Separ	Clearar	ERP	HAAT	Adjacency	Distance	Bearing
KCHX	N31:54:53	W101:57:49	MIDLAND	TX	FM	294 : 106.7	C1	C	LIC	133	57.86	100.00	207	1st Adj	190.86	282
	N31:26:33	W100:27:57	SAN ANGELO	TX	FM	292 : 106.3	L1		APP	0	45.86	0.00	0	1st Adj	45.86	256
KMDX	N31:26:08	W100:34:08	SAN ANGELO	TX	FM	291 : 106.1	C2		LIC	55	0.57	50.00	139	2nd Adj	55.57	258
	N31:26:33	W100:27:57	SAN ANGELO	TX	FM	292 : 106.3	L1		APP	0	45.86	0.00	0	1st Adj	45.86	256
	N31:27:43	W100:26:03	SAN ANGELO	TX	FM	239 : 95.7	N L1		APP	0	42.44	0.00	0	IF	42.44	258

Share your work! **rfDetective-FM** includes a free job reader that you can use to distribute your work to colleagues!



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The technical stuff (feature list):

- **rfDetective-FM Pro** can download and process databases directly from the FCC. No more monthly data costs. EVER!
- Prepares FCC spacing studies for all commercial FM channels and displays them in both grid and map form.
- A scaled, color coded, map clearly shows all relevant stations in the vicinity while the colors tell you if their spacings overlap your location, are close, or are clear. Spacing rings can be filled to highlight clear areas.
- **rfDetective-FM's** map display can also show each station by its relative frequency. Co-channel, adjacent channels, intermediate frequencies, and TV Channel 6 are each color coded.
- State and county maps can be displayed to help you decide where to locate your stations.
- Change the evaluation point to any place on the screen by double clicking the map. Your job is instantly resorted to show you the overlaps at that exact spot. New jobs can be compiled from any spot on the map.
- Instantly change your search class or channel by mouse click or direct entry.
- Considers rules in special situations such as proximity to the Mexican and Canadian borders and Channel 6 television stations.
- You can display AM radio stations. Draws a .8 km ring around non-directional and a 3.2 km ring around directional stations to help you avoid unnecessary construction costs. The AM display can be toggled off.
- Allows for speculative 'What-If' scenarios by giving you the ability to hide and unhide stations and to make additions, deletions, or corrections to your job.
- **rfDetective-FM** can automatically search for channel openings at your reference location.
- Make your own additions, deletions, or corrections to your copy of the database.
- You can look at vacant channels, licensed stations, construction permits, etc. Select just one or as many as you want. You choose!
- Major functions can be called from buttons, hot keys or by right clicking on the map or grid display.
- Grids are sorted by worst overlap by default, but can be resorted in ascending or descending order of any field.
- **rfDetective-FM** keeps track of your mouse's distance and bearing to the map center, and also keeps a running readout of latitude and longitude. In addition, you can instantly tell the distance and bearing between any two points on the map with a mouse click.
- Includes rules for Class C0 (zero), low power FM stations and Channel 6 television stations.
- Has advanced and simple database searching abilities. The simple search lets you examine the FCC database by call sign, owner, city, state or any combination. Partial inputs and wildcards can be used.
- **rfDetective-FM's** database retrieval tools let you search the database by any of the more than 50 FCC fields. Partial inputs can be used to broaden your searches.
- Add descriptive map Markers to your job or the FCC database.
- Considers International rules for Canada, Mexico and includes rules for Puerto Rico as well as the US Virgin Islands.

Other great products by rfSoftware include rfInvestigator, rfProfiler and rfAnalyst. Please visit us on the Internet at <http://www.rfsoftware.com> for more information.



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