

Selection of US WMS4000 frequency combinations, which are not disturbed by local TV stations

- 1.) Print all.
- 2.) Return to the previous page.
- 3.) Click on FCC
- 4.) Go to the bottom of the FCC page.
- 5.) Click on **Reference Coordinates for Communities**.
- 6.) Input the **name of the community** where the WMS4000 will be used.
- 7.) **Take a note of the geographical coordinates of the community.**
- 8.) Return to the previous FCC page
- 9.) Input Radius (in km) : **30**
- 10.) **Input the geographical coordinates** of the community.
- 11.) Click on : **Submit Data**
- 12.) **Take a note of the TV channels** which are occupied by local TV stations.

PROCEDURE

- 1.) **Exclude (mark) the frequencies which lie in the locally occupied TV cha** (See example).
- 2.) **Combine two bands while excluding the occupied channels.**

CAUTION

Do not combine more than two bands.

Do not combine consecutive bands (e.g. Band 1 2, 2 3, 3 4, 4 5)

but instead use only band combinations which are separated by at least one band gap (e.g.1 3 or 2 5 etc).

US TV Channel	TV CH		WMS400/4000		19 freq combs
	low	High	Hard ware version	Frequency range	
44	650.000	656.000	band 1	650-680	650.200 650.600 651.900 653.300
45	656	662			656.100 657.300 658.400 659.100 661.000
46	662	668			662.500 665.400 666.000
47	668	674			669.300
48	674	680			674.000 675.000 677.200 678.800 679.300 679.600
49	680	686	band 2	680 - 710	680.200 680.600 681.900 683.300
50	686	692			686.100 687.300 688.400 689.100 691.000
51	692	698			692.500 695.400 696.000
52	698	704			699.300
53	704	710			704.000 705.000 707.200 708.800 709.300 709.600
55	716	722	band 3	720 - 750	720.200 720.600 721.900
56	722	728			723.300 726.100 727.300

US TV Channel	TV CH		WMS400/4000		19 freq combs
	low	High	Hard ware version	Frequency range	
57	728	734			728.400 729.100 731.000 732.500
58	734	740			735.400 736.000 739.300
59	740	746			744.000 745.000
60	746	752			747.200 748.800 749.300 749.600
62	758	764	band 4	760 - 790	760.200 760.600 761.900 763.300
63	764	770			766.100 767.300 768.400 769.100
64	770	776			771.000 772.500 775.400
65	776	782			776.000 779.300
66	782	788			784.000 785.000 787.200
67	788	790			788.800 789.300 789.600
67	790	794	band 5	790 - 806	790.200 790.600 791.900 793.300
68	794	800			796.100 797.300 798.400
69	800	806			799.100 801.000 802.500 805.400

)* do not use 674 MHz if CH 47 and/or CH48 is occupied by the local TV

)** do not use 704 Mhz if CH 52 and/or CH53 is occupied by the local TV

)***) Example:

If TV channel 45 is occupied by a local TV station, the frequencies 656.100 657.300 658.400 659.100 661.000 have to be excluded. Combining band1 with band 3 yields the new frequency set:

650.200	650.600	651.900	653.300	662.500	665.400	666.000	669.300	674.000	675.000	675	677.2	678.800
679.300	679.600	720.200	720.600	721.900	723.300	726.100	727.300	728.4	728.400	729.100	731.000	732.500
735.400	736.000	739.300	744.000	745.000	747.200	748.800	749.300	749.600				