

28 June 1993

Additional Info on SoftWave
Modes

RF Bandwidths Delivered:

11	kHz	0.244
9.81		0.217
8.75		0.194
7.8		0.173
6.96		0.154
_____↑	Limited by IF	
BPF		0.122
		0.109
6.20		0.097
5.53		0.086
4.9		0.077
4.4		0.069
3.9		
3.48		
3.10		
2.77		
2.47		
2.20		
1.95		
1.74		
1.55		
1.38		
1.23		
1.10		
0.975		
0.870		
0.780		
0.690		
0.620		
0.550		
0.488		
0.430		
0.380		
0.346		
0.308		
0.275		

Demodulator Modes: Standard Analog Types

AM1	Standard envelope detector
AM2	Coherent AM demodulator using PLL carrier recovery
AM3	Diversity AM reception (back burner for right now)
SSB	Standard USB/LSB single sideband reception
FM1	Simplified Discriminator Detection
FM2	Standard FM Discriminator with FM Click Modification
FM3	Coherent PLL-based FM demodulator. Selectable loop bandwidth.
CW1	Morse code reception. Will be identical to USB reception with say 500 Hz bandwidth.
CW2	Narrowband CW reception, bandwidths < 500 Hz, with tone-tag recovery where CW tone shifted to an audio frequency determined by the user
CW3	Narrowband CW reception with full tone-tag. Statistical signal processing used to determine when signal actually present. No noise will be audible at the output, only on/off tone keying with the frequency set by the user. Outputs of this routine used for fully automatic Morse Code decoding.

Demodulators: Specialized

Decoding of off-the-air CTCSS,DCS, and DTMF tones

HF FAX

SSTV

ISB

RTTY

Morse Code

Signal Analysis