**Comparisons between the IONOS HF/VHF Sim and the RS-8 HF & V/UHF Channel simulators**

**FEATURE IONOS SIM HF/VHF RS-8 HF & V/UHF**

Independent settings 1 shared by Ch1, Ch2 2 Left, Right

Bandwidth 3KHz, 6KHz, 3KHz, 6KHz

S:N Adjust -40 to +40 dB, 1dB steps -63, +63 dB, .5 dB steps

Number of HF Paths: 1, or 4 1, 2, 3, 4, or 5

VHF Paths 1, Fade, Offset, Doppler Sweep 1-6 Delay, Doppler, Power

Channel Types Preset: WGN, MPG, MPM Variable: all parameters MPP, MPD, FLAT FADE settable Paths 2-5

Display Internal Color text, Spectrum, IQ Monochrome Text, Graphics with PC

User Controls: 2 multi-function Encoders, USB Serial Front panel buttons, PC Graphics.

Interference none 4: fixed CW, swept CW, FSK, Narrow Generators

Discussion: Basically, there are five major differences:

1. THE IONOS SIM has only one setting it can share that setting with 2 Half duplex channels with the same channel modeling. Full duplex or independent paths requires two IONOS SIMs. The RS-8 can do independent channels and full duplex by itself with one simulator.
2. IONOS SIM uses preset CCIR defined channels (except for MPD). The RS-8 allows independent setting of all channel parameters allowing full flexibility of setting any desired channel.
3. The RS-8 has 4 programmable “interference generators” that adds an interference signal into the band of interest.
4. The Manual and specification for the IONOS Sim is 12 pages, the RS-8 is 120 pages.
5. The RS-8 costs about 40x the IONOS SIM ($8000/$200)