

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 MPP, MPD, FLAT FADE	Variable: all parameters 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 Generators	none	4: fixed CW, swept CW, FSK, Narrow

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)