



Main Advantages of KV1120PRO over other competitors

1. The Encryption Quantity is Incomparable:

1a. 4.523×10^{74} Encryption Processes (i.e. 75 digits!)

1b. 4,294,967,296 Combinations per each CodeKey (= Digital Private Line)

2. Some companies claim that their “frequency hopping” Scramblers change frequencies hundreds of times per second thereby implying that their Scrambler offers higher security. However, because these frequency changes are very minute they are actually utilizing frequency sweeping rather than true frequency hopping. Frequency sweeping makes a continuous change that may be tracked with tracking phase lock loop (PLL) circuitry. KAVIT avoids this problem by utilizing true pseudorandom frequency hopping with random dwell time that is difficult to track.

3. Some companies use Over The Air Re-programming method. The encryption parameters are sent over the air. An unauthorized user is therefore able to easily receive and decode ALL the next conversations ! KAVIT avoids this by using the SBEP interface, recommended by Motorola for programming the Option Board. Programming the KV1120PRO via the Radio’s SBEP interface ensures that encryption parameters are NEVER transmitted over the air.

4. The KV1120PRO can receive up to 5 Different CodeKeys (Digital Private Line Codes) Simultaneously. Effectively equivalent to 5 different groups.

5. Current consumption from the Radio’s Battery on Standby mode is Lowest: Less than 1.3mA !