



SACOM Systems RF Configurations

SACOM systems are available in several RF configurations. The appropriate configuration depends on the **application** and local governmental regulations.

Standard Channel Count (SSCC) Option SACOM systems can be configured to operate up to 16 channels with full 24-bit, uncompressed audio, operating with frequency response (20 Hz – 20 KHz) in the 902-928 MHz ISM band. This is the preferred configuration for performance audio.

Double Channel Count (SDCC) Option Systems can also be configured to double the number of channels from 16 to 32 while keeping all aspects of 24-bit, uncompressed audio, in the 902-928 MHz ISM band, except the frequency response is changed to 20 Hz – 11 KHz. This change in frequency response is imperceptible in most cases, and it is preferred for conferences, lectures, court proceedings, church and other spoken word applications.

Users can change the configuration from SSCC to SDCC (or vice versa) in the field with a free firmware update using SACOM Remote Software.

Expanded Channel Count (SECC) Option One advantage of digital wireless microphones is they can be configured for a very large number of channels working concurrently using advanced data compression techniques. There are many common methods of data compression in our digital world. For example, the MP3 method puts about ten songs on a CD disc where only one uncompressed song would fit. Data compression should not be confused with audio compression or companding. These are entirely different functions. SACOM systems do not employ audio compression or companding.

The SECC data-compression method is an advanced technology that increases the number of concurrent microphone channels by 500% while maintaining concert-quality audio. SECC increases the number of SSCC channels from 16 to 80 full channels, and it increases the number of SDCC channels from 32 to a total of 160 channels.

SECC requires additional hardware and firmware, so there is an upcharge for this option. It must be specified when the system is ordered. It cannot be upgraded in the field. Contact your SACOM representative for details.

Regional Governmental Restrictions: In North America, South America and some Pacific Rim countries, all configurations are permitted in the 902-928 ISM band. The SECC option is required in these territories for frequency bands between 450 and 798 MHz.

In most of the rest of the world, the SECC option is required for all microphone frequency bands.