

Operating frequency plan

In case some wireless microphone systems are operated at one time with frequency division method in the same area, a frequency plan to be used for the operation is important.

When transmitting signals with analog FM, if more than 3 frequencies are transmitted with the same frequency span, interference always happens. Interference reduces the acoustic fidelity extremely with a beat sound. This is caused by the intermodulation made in the non-linear part of the receiver and this phenomenon is called third intermodulation (see fig 3). To avoid this problem, a frequency channel plan applied to wireless microphone systems dose not have equal frequency spans between channels, without using the frequency channels where the third intermodulation may occur.

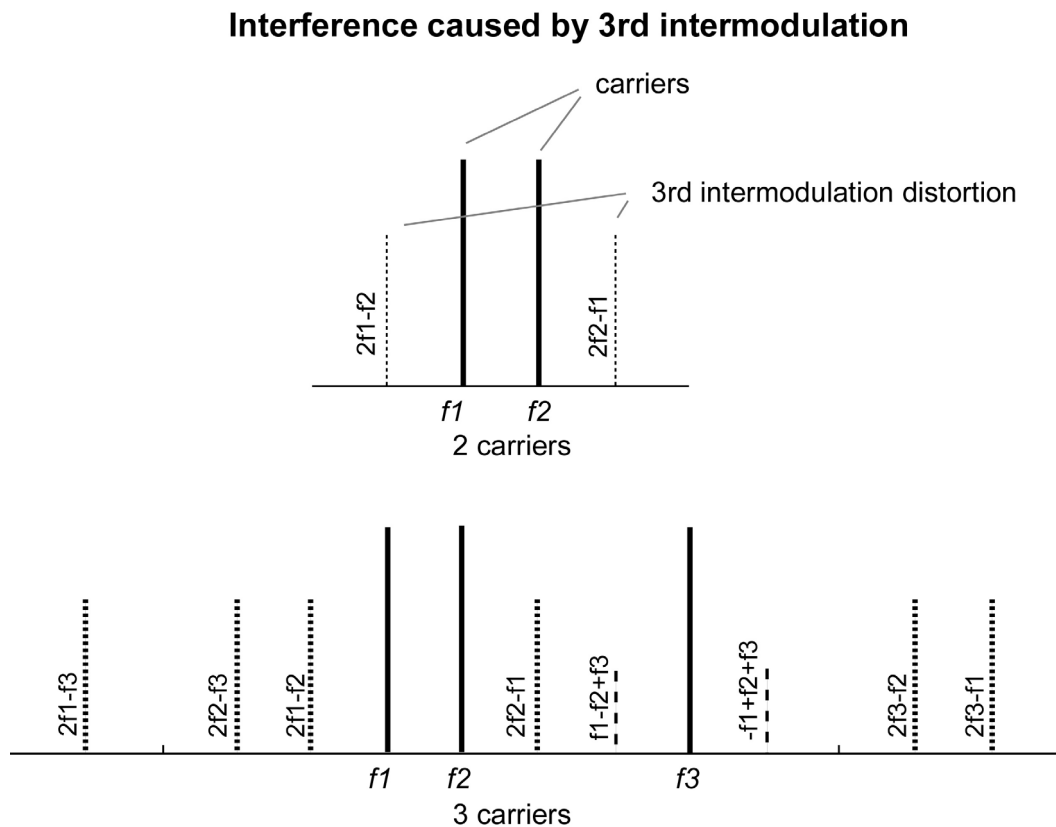


Fig.3