Technical Note: Synchronized System Channel Settings

Note: Adjusting channel settings as described below should only be performed by trained and authorized audiovisual personnel.

All Revolabs Solo™ products contain MaxFlex™ technology, enabling multiple systems to be deployed within the same building. While adjusting power levels provides a method to increase the number of Executive systems in a given space, it is also necessary to optimize the RF channel selection of multiple synchronized base stations to avoid adjacent channel interference.

Revolabs Solo™ Base Stations are normally delivered from the factory configured for unrestricted channel selection, which is appropriate for most installations. What this means is that the base station is free to choose the best carrier frequencies to transmit and receive audio signals, and avoid interference from other sources. When a system needs more than 8 microphones and we synchronize it to another Solo 4 or 8 channel system, it is usually necessary to set the systems to alternate channel configurations to preclude systems from interfering with each other. Interference between systems may cause occasional audio noise and signal dropouts on affected systems.
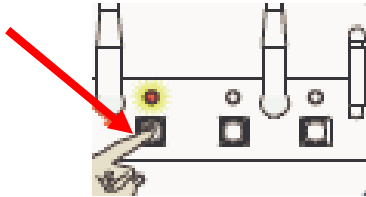
A Revolabs Solo™ Executive system has two optional channel configurations available when systems need to be synchronized: A Mode, and B Mode.

In performing the following process, it may help to understand that an 8-channel Executive base station rack unit has four radio transceivers - each associated with a pair of audio channels - and that each transceiver needs to be configured separately. Similarly, a 4-channel Executive base station rack unit has two radio transceivers.

To configure a base station for synchronized channel modes:

Revolabs Solo™ Executive 4 and 8 Channel

1. Power-off base station at the mains (Reset) switch
2. Press and hold the CHANNEL 1 button, power-on the unit

3. Release the button after the channel LED flashes green twice for synchronized Mode A. Release the button after the channel LED flashes green three times for synchronized Mode B. If you miss the Mode you are configuring, the system will continue to cycle through all options.
4. Repeat steps 1 to 3 with the CHANNEL 3 button
5. Repeat steps 1 to 3 with the CHANNEL 5 button (8 channel system only)
6. Repeat steps 1 to 3 with the CHANNEL 7 button (8 channel system only)

When the base station is powered-on again, the LEDs will give one green flash on channels 1, 3, 5, and 7 to indicate that the system is in single system mode, twice to indicate A Mode, and three times for B Mode.

Note 1: Always confirm that the base station set to the "Local" switch setting is in Mode A, and that the "Remote" base station is in Mode B.

Note 2: When using a 4-channel system with an 8-channel system, assign the 4-channel system to "Local" and Mode A.

Note 3: Always confirm that all transceivers are set at the same channel setting on each base station.

Revolabs Solo™ Desktop

The Desktop system does not offer synchronized operation.