

**It is essential that these guidelines are followed, to ensure reliable – and legal – operation of our radio microphones. Note we need to have a current Ofcom PMSE licence to use them at all.**

Our radio microphones are capable of transmitting on some frequencies that are not legal, and cannot be licensed, in the UK. **We may only legally use (with a licence) channel groups O, P, and R** (otherwise known as **Channel 38**). Therefore we cannot follow the procedure exactly as set out in the manual for the radio microphones, but have to adopt our own modified procedure.

The BLX88 receiver is two receivers on one box, and operates with two microphones, on different frequencies. For reliable performance, we need to scan group O, P, or R for ‘quiet’ frequencies – frequencies where there is no other activity from nearby transmitters. Not doing this could result in co-channel interference, where our own performance is compromised, and we could also impact other users nearby.

Group options (legal!)	Channel options within each of those groups
O P R	1 2 3 4 5 6 7

The BLX88 can perform auto-scanning to find quiet frequencies, but we must limit our auto-scans to groups O, P, or R. This explains how we do this.

***This should be read in conjunction with the Shure manual for the ‘BLX Wireless Microphone System’.***

***This procedure should be followed afresh immediately before each event session.***

- **ESSENTIAL: ensure that all our microphones are switched OFF before you start.**
- Connect power to, and switch on, the BLX88 receiver.
- Briefly press the ‘group’ button for the left-hand receiver, which starts the auto-scan for that receiver. While this is running, quickly press the left-hand ‘group’ button repeatedly until it shows **group O\***. Releasing the button will start a scan of the frequencies just in group O, and it will choose a ‘quiet’ one (1 to 7).
- Now switch **ON** the microphone intended for the left-hand receiver, and set its group and channel to match the left-hand receiver. It will now be paired with the left-hand receiver, and that channel will be seen as ‘busy’ while setting up the right-hand receiver to a different frequency. If this is done correctly, the left-hand ‘ready’ LED will light. **Leave the left-hand microphone switched on for the next stage.**
- Briefly press the ‘group’ button for the right-hand receiver, which starts the auto-scan for that receiver. While this is running, quickly press the right-hand ‘group’ button repeatedly until it shows **group O\***. Releasing the button will start a scan of the frequencies just in group O, and it will choose a ‘quiet’ one (1 to 7), which will not be the same as the left-hand receiver frequency, as this frequency is now ‘spoken for’.
- Now switch **ON** the microphone intended for the right-hand receiver, and set its group and channel to match the right-hand receiver. It will now be paired with the right-hand receiver. If this is done correctly, the right-hand ‘ready’ LED will light.

**Set-up is now complete for two microphones. You can now switch off both microphones until needed.**

\* The above procedure can alternatively be applied to groups P and R, but no others. **It is essential that both microphones operate in the same group**, which can be any one of the three legal/licensed groups O, P, or R.

Your contact for any technical assistance:

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