

## CC 32 (Sub Bank)

[www.swub.de](http://www.swub.de)

[illegible]

**Note:** Spitfire and Ableton display the value of CC 32 (Sub) differently. Ableton shows 1-128, but sends out 0-127. Why? Technically the range of MIDI is always 0-127, but since a lot of hardware producers display their programs or presets from 1 to 128, many software developers decided to make it easier for the users and display 1-128 as well. So Spitfire is right and Ableton also has its reasons ;-) The KSEM follows Ableton to avoid further confusion. Therefore you have to add +1 to the value shown in the player.