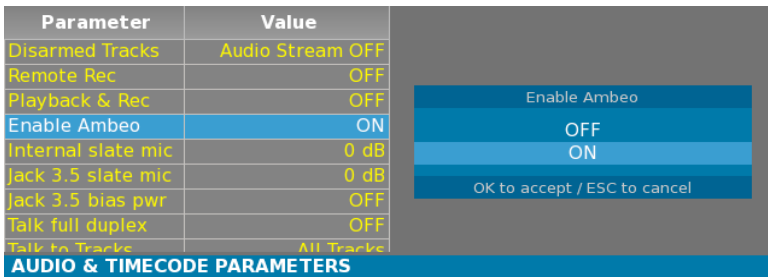


Using Sennheiser Ambeo VR mic on CantarX3

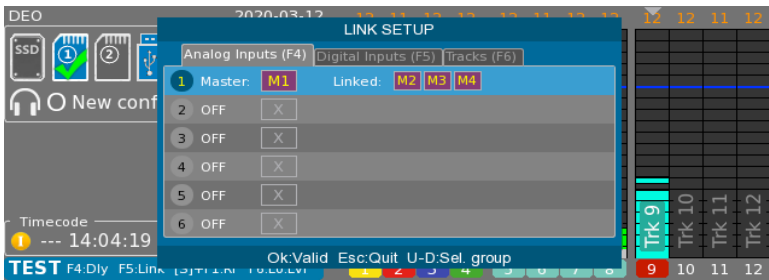
CantarX3 records AMBEO VR mic in Ambisonics A-format and/or B-format supporting any mic orientation (Up, Down, Endfire). CantarX3 support both Ambix and Fuma B-format standards and allows stereo headphone monitoring . (Binaural monitoring soon to be released)

Ambisonics is a multi-channel technology that lets you spherically capture the sound arriving from all directions, at a single point in space Sennheiser AMBEO VR Mic is an ambisonic microphone fitted with four matched KE 14 capsules in a tetrahedral arrangement. This special design allows you to capture the sound that surrounds you from a single point. As a result you get fully-spherical, 360 degree sound to match your VR video content.

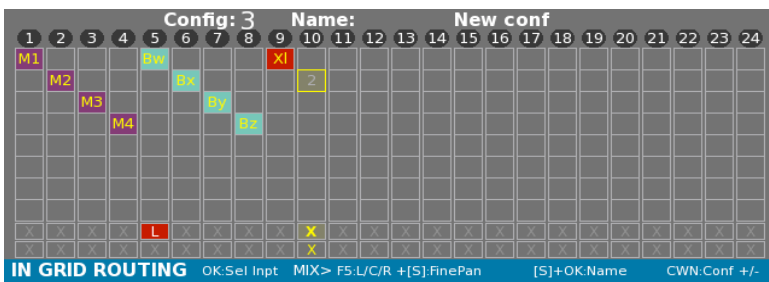
The capsules of the Sennheiser AMBEO VR Mic deliver A-format, a raw 4-channel output that has to be converted into a new set of 4 channels, the Ambisonics B-format. This is done by the specifically designed CantarX3 converter, B-format is a W, X, Y, Z representation of the sound field around the microphone. W being the sum of all 4 capsules, whereas X, Y and Z are three virtual bi-directional microphone patterns representing front/back, left/right and up/down. Any direction from the microphone can be monitored during playback of Ambisonics B.



**Step 1 :** Enable Ambeo VR Mic recording from the AUDIO & TIMECODE PARAMETERS menu



**Step 2 :** Link the four mic inputs dedicated to the Sennheiser AMBEO VR Microphone



**Step 3 :** Set your AMBEO dedicated IN GRID ROUTING configuration. Apply the Raw 4 channels (MIC1 yellow, MIC2 red, MIC3 blue, MIC4 green) outputs of the AMBEO VR Microphone to four adjacent ISO tracks (A Format) . The converted B format channels can be recorded on four extra tracks and sent to Mlx down tracks

**Step 4 :** From the TEST or PRE-REC Menus, press SHIFT + OK to open the AMBEO VR Mic setup window. Use the UP/DOWN buttons to scroll through the desired fields and the LEFT/RIGHT buttons to modify them

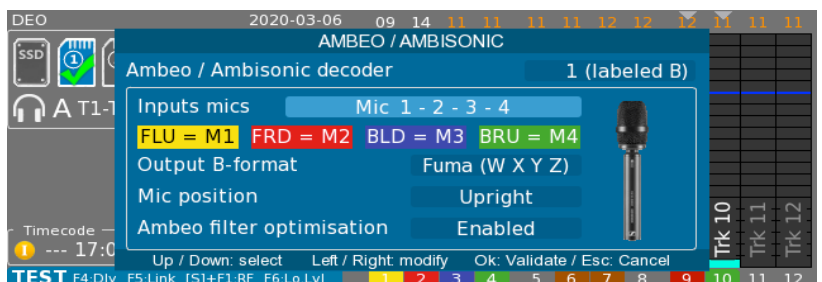
**Ambisonic decoder :** 1 (labeled B) or 2 (labeled C) Allows you to connect, record and convert two AMBEO VR Microphones

**Inputs Mics :** Select which microphone for which decoder. If the mic inputs have not been linked previously, they will not appear in this field

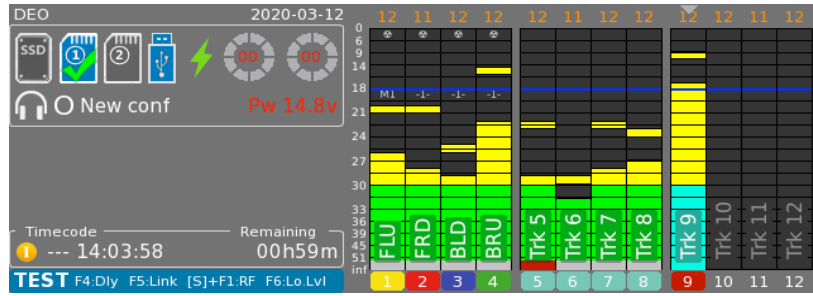
**Output B Format :** Fuma or Ambix converter

**Mic position :** Upright, Endfire or Upside down

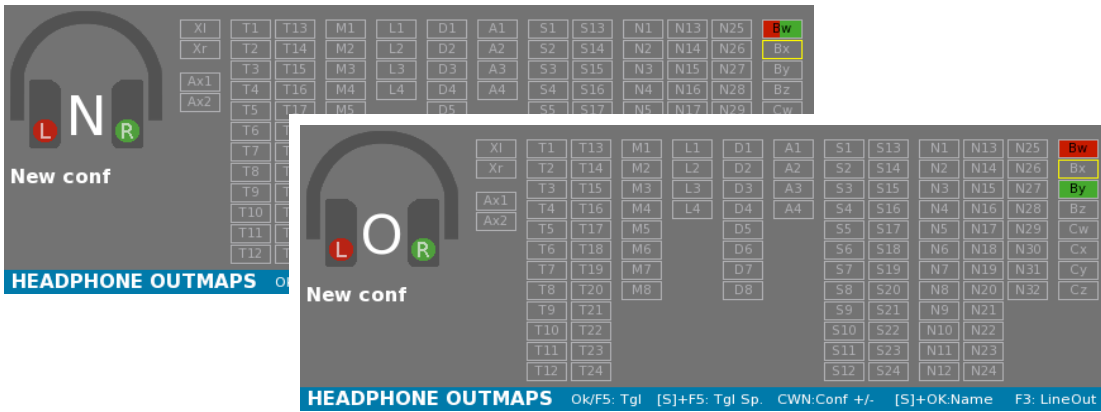
**Ambeo filter optimisation :** Enabled (recommended) or disabled



AMBEO VR mic ISO track names and colour identification are automatically filled by CantarX3



**Step5** :From the HEADPHONE OUTMAPS menu, dedicated out-maps configuration can be created, including B format monitoring *Binaural monitoring is currently under construction*



**Two AMBEO VR Mics can be recorded, and converted to B format.** Use labeled B decoder for one mic and labeled C decoder for the second microphone. Link each microphones raw 4 output gain controls and create a specific routing configuration. The converted B format channels (B labeled and C labeled) can be recorded on 8 extra tracks and sent to Mix down tracks. They can also be monitored independently

