

# How to program the audio on er9x

This little guide will explain how to set up the audio to use the voice feature with er9x.. I'm supposing that you already configured your radio to work with this feature but here are some pictures of my own setup. Yours should be pretty much the same

```
MODEL SETUP 1/6
Owner Name ME
Beeper NoKey
Sound Mode PiSfkVoice
Volume 7
Speaker Pitch 1
Haptic Strength 0
Contrast 25
```

```
MODEL SETUP 1/6
Inactivity alarm 8m
Filter ADC SING
Throttle reverse OFF
Minute beep ON
Beep countdown ON
Flash on beep ON
Light switch
```

```
MODEL SETUP 1/6
Light on Stk Mv OFF
Splash screen ON
Splash Name ON
Throttle Warning ON
Switch Warning ON
Default Sw TRE 12AG
Memory Warning
```

```
MODEL SETUP 1/6
Alarm Warning ON
PotScroll ON
BandGap ON
Enable PPMSIM OFF
Int. Frsky alarm OFF
Mode
RUD ELE THR AIL
```

Ok, Now let the fun part begin.. :-)

```
MODEL SETUP 2/6
Name PICO CUB
Voice Inde:261
Timer 06:05
Trigger THs
TriggerB ---
Timer Count Down
T-Trim OFF
```

Go to the model setup menu by long pressing the right key, and then press short one more time to go to page number 2. Here you can enter a file number for the voice file that will play the name of your model at startup or when you change model. For models names only file numbers starting at 0260 are allowed. On the second line you find the option :

**Voice Inde: 261**

That means that the audio file to play the name of this model corresponds to the file number 0261 in the SD-Card.

Here I will explain how to program a switch to trigger a voice event.



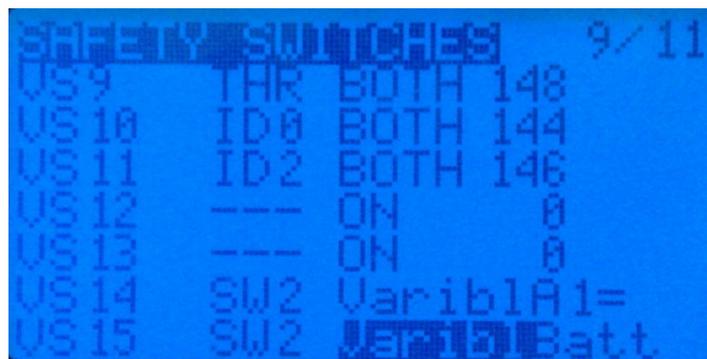
Go to Models menu, page number nine, Safety switches, and on the first line you will see:

**Number Voice SW 0** (Zero is the default value)

With this option you can replace some safety switches with voice switches. So, the last Safety switches will be replaced by the number of Voice switches you've just created.. Smart eh?

In the picture above I selected 8 voice switches, that means that the safety switches 9 to 16 were now replaced with voice switches 9 to 16.

Next to program the damn thing..



Every Voice switch has 3 configuration options. On the left you can select the switch itself. You can choose all the Physical switches and also all Custom switches. More on that later.

The second option (middle) allows you to select how the voices and telemetry events will be played. Finally, on the right side you can select the voice file to play or, depending on the middle option, the telemetry event to be played.

So, as I mentioned before on the left side you choose the switches. No need to explain further.

**Middle** – Here you have the following options:

**On** – This will play a voice file when you turn the selected switch on.

**Off** – This will play a voice file when you turn the selected switch off.

**Both** – This feature allows you to play two files using only one switch. So, when you turn the switch on, it will play for example file number 0100, and when you turn the switch off it will play the next consecutive file 0101..The files will play only once. **When using this option you must make the on and off audio files with consecutive numbers.** This way you only have to program the “on” file number. Please see VS9 in the picture above.

**15 / 30 / 60 Seconds** – This options will play the selected file number every 15, 30, or 60 seconds when the selected switch is on.

**Varibl** - When you select this option, a telemetry event will be played once when the selected switch is on. In this case on the right side you will have all the telemetry events instead of the file numbers.

Ex: A1=, A2=, Alt, RPM, etc...

Examples: How to program a voice switch that will play a voice once

**VS9 ELE ON or OFF 146**

How to play a voice file once when the switch is on and the consecutive file number when the switch is of..

**VS9 THR BOTH 148**

In this case, when you turn the THR switch on, voice file number 0148 will be played and when you turn the THR switch off voice number 0149 will be played. Please see in the picture above VS9.

VS 10 and VS 11 show how to program for example a 3 position flap using **ID0, ID1** and **ID2**.. this one is a bit tricky but will save a Voice Switch.. Voice files used are:

0144 Flaps up When ID0 is on

0145 Flaps 1 When ID1 is on

0146 Flaps 2 When ID2 is on

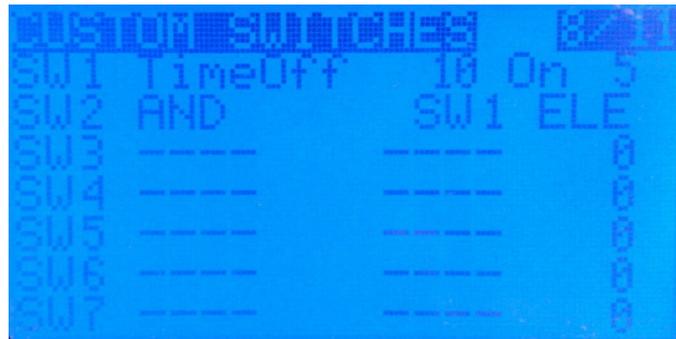
0147 Flaps 1 When going from ID2 back to ID1. You will need to make a copy of file Flaps 1 and place it after the file for ID2 for this to work

**VS 10 ID0 BOTH 144** This will play voice 145 when moving the switch to the middle position (ID1) and 144 when switching back to ID0. Don't ask me why loool.

**VS 11 ID2 BOTH 146** This will play the file 0146 (Flaps 2) when you move the switch from ID1 to ID2. When moving the switch back to ID1, this time (remember consecutive file number) file number 147 (flaps 1) will be played. That's why you must make a copy of the file for ID1 and place it right after the file for ID2. It sounds a bit complicated but if you have a play with it, you will easily get the hang of it..

**Programming a telemetry event with a switch.**

In this example I will be using the **ELE** switch. Please take a look at the next picture. Custom switches menu.



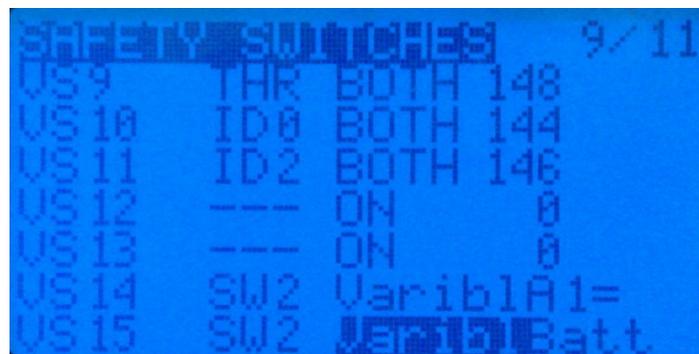
On this menu you find the custom switches. I'm not going into detail about them. What is new to the custom switches, is that now on the left side, among all the logical statements, you will also find an option called **Time**. When you select it, you will be able to choose the **OFF** and **ON** times for the selected Custom Switch. On the picture's example **SW1**.

This option will be used together with the Voice switches in the safety switches menu, and will allow to repeat a voice or telemetry event in a loop with a preset time interval define by this Timed custom switch.

So in my example (picture above) I have:

**SW1 Time Off 10 On 5** This means that SW1 will be on for 5 seconds and then off for 10 seconds.

**SW2 AND SW1 ELE** This means that SW2 will be on when SW1 is on **AND** ELE switch is also on. This is also the switch we are going to use to trigger the telemetry voice event on the safety/voice switches menu.. Please see picture below:



So we have VS14 and VS15 programmed to play 2 different telemetry events in a loop every 10 seconds (see above). As explain before, we use SW2 to trigger both Voice switches. One is set to play the A1 event and the other will play the TX Battery Voltage.. The order of the files played in the loop is the same order of the VS's. In this case the A1 info will be played first and then the radio Batt voltage, when ELE switch is on.

I hope that this little guide can help you setting the audio on your er9x.

Sorry for my bad English. I did my best..

A big THANK YOU to Mike Blandford for making all this possible..

João (The Portuguese) :-)