SmartPropoPlus Version 3.3.3
Release Notes

1 Improved PPM behaviour:

1.1 Less Jitter

1.1.1 Problem:

Some users complained that the controls are slightly moving (jitter) even when the transmitter-sticks are still.

1.1.2 Cause:

SmartPropoPlus converts the input signal into discrete joystick values according to the input signal values. If the input signal values are also discrete as in PCM than SmartPropoPlus does a one-to-one conversion. However, since PPM is an analogue technique, very slight changes in the input signal may be translated into two different joystick levels.

1.1.3 Solution:

Added resistance to small, oscillating changes in the PPM translation algorithm.

1.1.4 Possible side-effects:

reduced sensitivity around the mid-point of the sticks.

1.2 Self-adjusting

1.2.1 Problem:

SmartPropoPlus was incapable of interpreting some signals as PPM.

1.2.2 Cause:

Some PPM Transmitters drive an incompatible signal as displayed in Illustration 1:

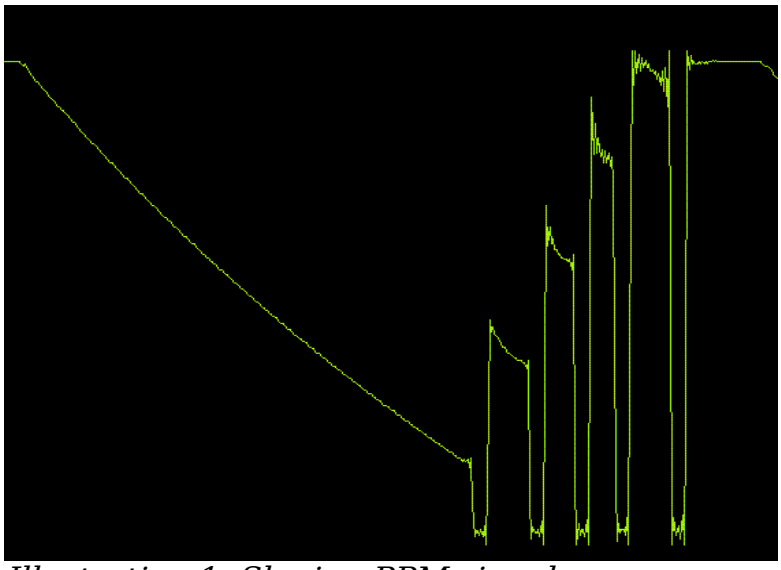


Illustration 1: Sloping PPM signal

Earlier versions of SmartPropoPlus could not interpret such signal as a legitimate PPM signal.

1.2.3 Solution:

SmartPropoPlus PPM algorithm was replaced by a better algorithm developed by Ph. G. De Coninck. Now SmartPropoPlus and PPM-Audio (a.k.a. Thermometer) share the same algorithm.

1.2.4 Possible side-effects:

None.

2 External audio control

2.1 Change of default behaviour

2.1.1 Background:

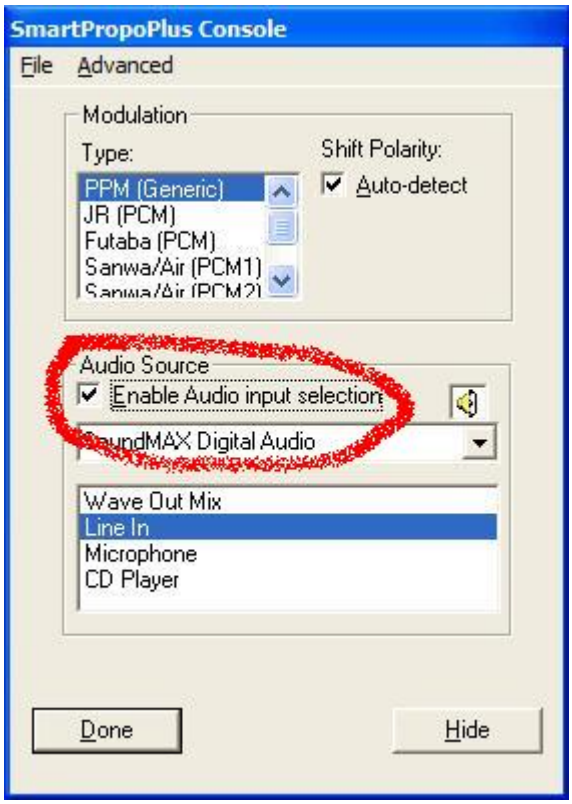
In previous versions of SmartPropoPlus, the selection of audio signal source was done by default from within SPPconsole.

2.1.2 Problem:

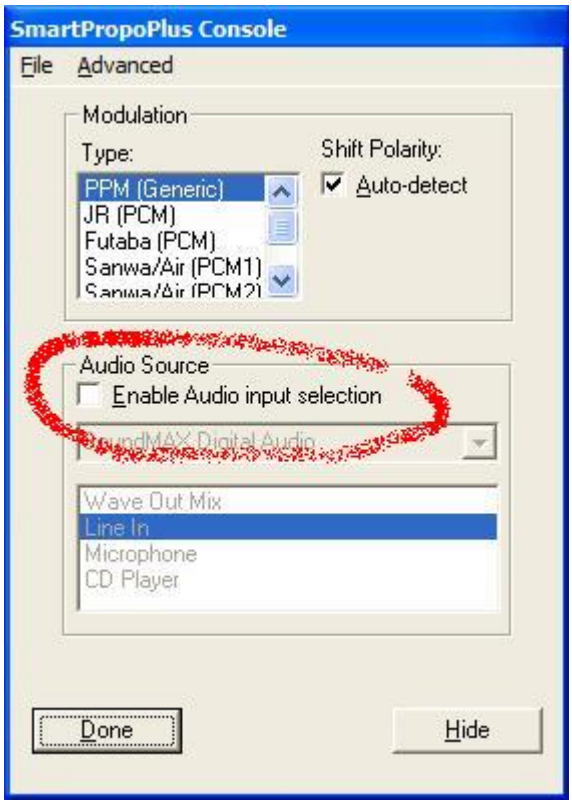
This 'kidnapping' of the control of the audio confused many users.

2.1.3 Solution:

Installing SmartPropoPlus *for the first time* will not 'kidnap' the control of the audio. This will not affect users installing version 3.3.3 on top of earlier versions.



Previous Default



New Default