

## AC-3 Test Signal Encoder Option for win|RTA

The AC-3 option allows the D2 user to input pink noise into a home theatre receiver through the optical input port. This option is available on all versions of win|RTA (D2, Standard, & Basic). The M-Audio Transit is required as the audio interface. Information on the Transit can be found here: [http://www.m-audio.com/products/en\\_us/Transit.html](http://www.m-audio.com/products/en_us/Transit.html).

After installing the Transit, open the M-Audio Transit USB Control Panel, and select DD/DTS passthrough. The Transit must be connected when win|RTA is started to use the AC-3 encoder.

After starting win|RTA, you must select an audio interface (Config->Interface). Then open Config->Output:

The screenshot shows the 'Configuration Options' dialog box with the 'Output' tab selected. The 'Interfaces' tab is also visible. The 'Save Configuration' button is at the top. Below it, there are checkboxes for 'PINK Button', 'D2 Relay', and 'Internal Generator'. The 'Pink Noise Output' section has 'Analog', 'S/PDIF', and 'AC3' tabs, with 'AC3' selected. The 'Pink Noise Outputs' section shows a 'Level' of -24.0 dBFS. Below this are six channels (Ch 1 to Ch 6) with dropdown menus and checkboxes. Ch 1 is 'Left' (checked), Ch 2 is 'Right' (checked), Ch 3 is 'Center' (unchecked), Ch 4 is 'Sub' (unchecked), Ch 5 is 'Surround Left' (unchecked), and Ch 6 is 'Surround Right' (unchecked). At the bottom, the 'AC3 Bandwidth' is set to 18 kHz (selected) and 20 kHz (unselected).

The test signal has a dialnorm of -31, so with -24 dBFS selected, the actual output voltage will be -20 dBFS.

You can select any combination of outputs when 18 kHz bandwidth is selected.

When 20 kHz bandwidth is selected, you can select either Left, Right, or Center.

This encoder is the consumer version, which means that many parameters are fixed or limited, such as dialnorm, which is fixed at -31, and bandwidth, which is limited to 18 kHz. To test the extreme high frequency response of the main channels, select 20 kHz, which will enable playback of recorded pink noise encoded with a professional encoder.