DHD.audio
Support

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Level Adjust

Level Adjust allows you to adjust global level scaling and metering.
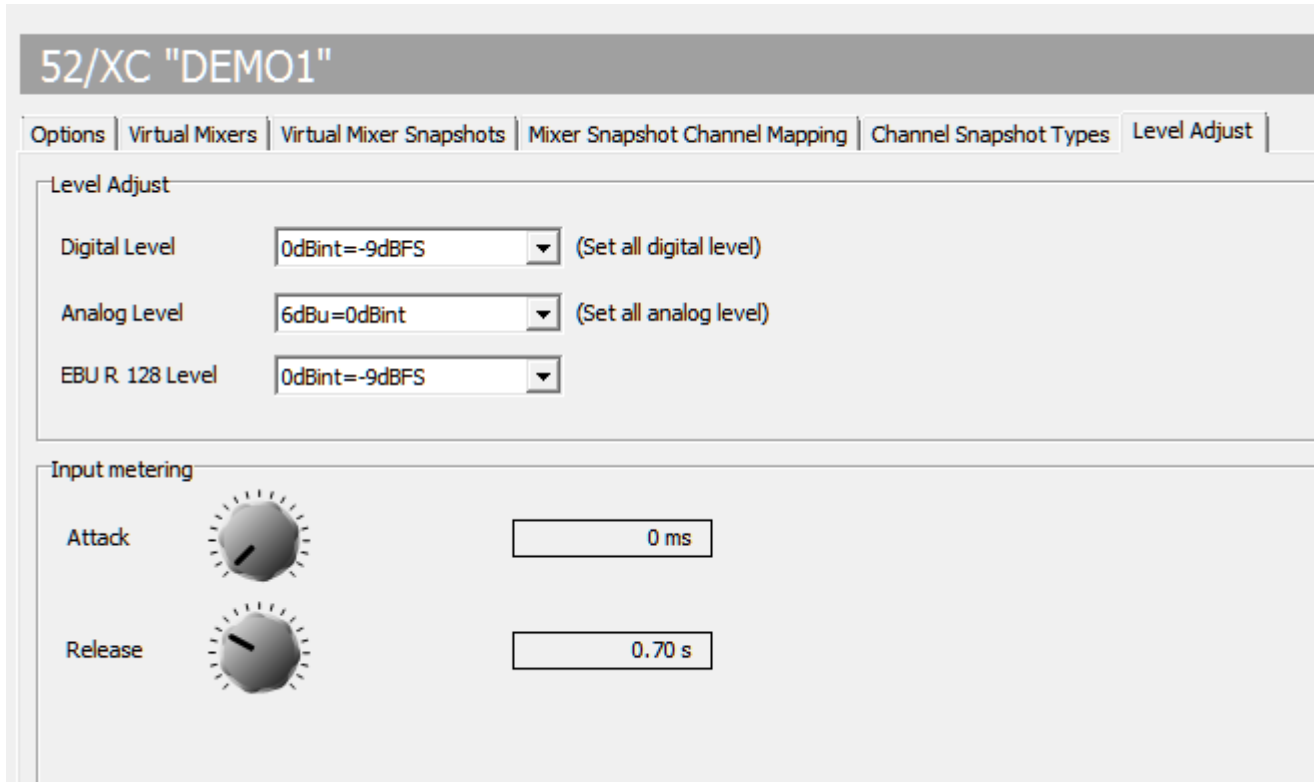
Device settings, Level Adjust page

Default settings are:

Level type	Value
Digital Level	0dBint=-9dBFS
Analog Level	6dBu=0dBint
EBU R 128 Level (Loudness)	0dBint=-9dBFS

All levels are converted to *dBint*, which is a DHD internal leveling. You can change here how the dBint value is defined for DHD devices to match your standards. `dBint` is always digital level.

> ⚠️ **Important**
> When adjusting levels here, settings are global. You can also adjust levels on the I/O Overview Page for special inputs and on specific channel or level detect settings.

For Digital Levels

On EBU and ARD standards: *0 dBint = -9 dBFS*

Because digital systems only have an absolute 0, Maximum setting is *0 dBint = 0 dBFS*. Therefore, `0 dBFS` is the maximum level for digital systems.

For Analog Levels

dBu is for analog scaling. Related to voltage, this means:

Germany

U_0 = 0.7749 V ⬜ 0 dBu

The reference Level defined in broadcasting standards of German ARD is: U_0 = *1.5 V ⬜ 0dB ⬜ 6 dBu*

International

U_0 = 1V ⬜ 0 dBV

(dBV is always related to 1V. Sometimes it is also called only dB or dBu)

If it is relevant to you, you may calculate with: *0 dBV ≈ 2.2 dBu*

General addition

U_0 - Reference Voltage;
Calculation of levels related to Voltage:

$$P_u = 20 \lg \frac{U}{U_0}$$

According to this, A/D conversion is default set according to standards of ARD: *+6 dBu = -9 dBFS = 0 dBint*

Input Metering Settings

Input Metering settings change the ballistics of all level meters, e.g., overbridge modules or fader strips

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