Table of Contents

DHD.audio

Support

vel Adjust	1
For Digital Levels	1
For Analog Levels	2
Germany	2
International	2
General addition	2
Input Metering Settings	2

Page 1/1

Level Adjust

DHD.audio

Support

Level Adjust allows you to adjust global level scaling and metering.

52/XC "DEMO1"
Options Virtual Mixers Virtual Mixer Snapshots Mixer Snapshot Channel Mapping Channel Snapshot Types Level Adjust
Level Adjust
Digital Level OdBint=-9dBFS (Set all digital level)
Analog Level 6dBu=0dBint (Set all analog level)
EBU R 128 Level OdBint=-9dBFS
Input metering
Attack 0 ms
Release 0.70 s

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

PDF Generated: 2020/08/21

Page 1/3

DHD.audio

Support

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

 $U_0 = 0.7749 V \square 0 dBu$

The reference Level defined in broadcasting standards of German ARD is: U₀ = 1.5 V [] 0dB [] 6 dBu

International

 $U_0 = 1V \square 0 \ dBV$

(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: $0 \, dBV \approx 2.2 \, dBu$

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

Page 2/3

DHD.audio

Support

Page Title: Level Adjust

Permanent link: https://support.dhd.audio/doku.php?id=tb8:level_adjust PDF Generated: 21.08.2020 | Last update: 2020/06/04 10:41

PDF Generated: 2020/08/21

Page 3/3