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dBFS	5
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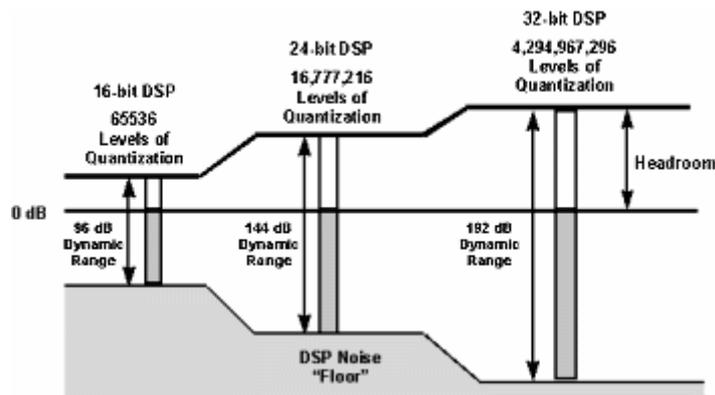
dBFS

dB Full Scale

0 full scale
 (16-bit:96dB, 24-bit:144dB)
 -18dBFS(24-bit & above) ,-12dBFS(16-bit) = +4dBu, 0VU

RMS	dBFS	Peak	1)
-18dBFS	-20dBFS	가	-6dBFS
24-bit(144dB)	16-bit(96dB)	가	“ ”
0dBFS,	-6dBFS		

2)



$$2^{16} = 65536$$

$$2^{24} = 166777216$$

$$20 \log_{10} \frac{65536}{1} \approx 96dB$$

$$20 \log_{10} \frac{166777216}{1} \approx 144dB$$

dBFS

- EBU R68 is used in most European countries, specifying +18 dBu at 0 dBFS
- In Europe, the EBU recommend that -18 dBFS equates to the Alignment Level
- European & UK calibration for Post & Film is -18 dBFS = 0 VU
- UK broadcasters, Alignment Level is taken as 0 dBu (PPM4 or -4VU)

- US installations use +24 dBu for 0 dBFS
- American and Australian Post: -20 dBFS = 0 VU = +4 dBu
- The American SMPTE standard defines -20 dBFS as the Alignment Level
- In Japan, France and some other countries, converters may be calibrated for +22 dBu at 0 dBFS.
- BBC spec: -18 dBFS = PPM "4" = 0 dBu
- German ARD & studio PPM +6 dBu = -10 (-9) dBFS. +16 (+15)dBu = 0 dBFS. No VU.
- Belgium VRT: 0 dB (VRT Ref.) = +6dBu ; -9dBFS = 0 dB (VRT Ref.) ; 0dBFS = +15dBu.

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1)

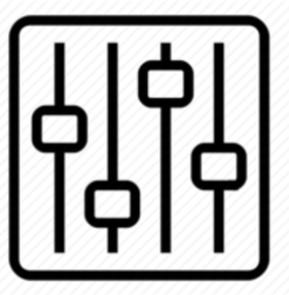
RMS

Peak

2)

, 48-bit 가 288dB ,

가 2



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