



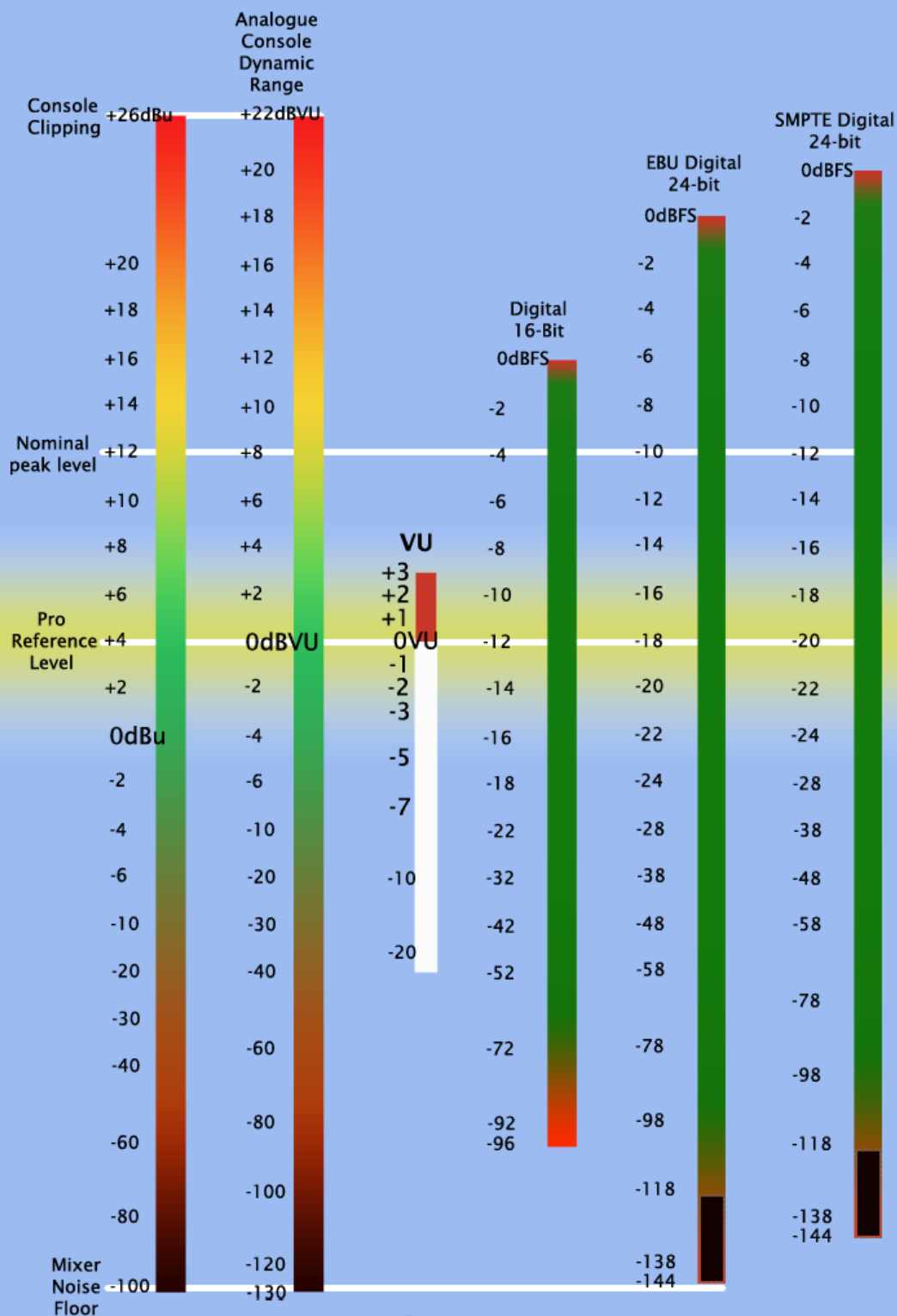
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-18dBFS	5
Reference	7
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-18dBFS

EBU R68

Reference Levels - Analogue and Digital Scales, Meters and Dynamic Range



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Note: Assumes 1 Digital bit = 6dB.

Analogue dynamic range assumed to be between +26dBu and -102dBu

Encodable digital range above quantisation error assumed to 118dB

The Reference levels of -18dBFS (EBU) and -20dBFS (SMPTE) are aligned to +4dBu (OVU) as standard, but could be set to 0dBu instead to encode more low-level detail, or this reference (and indeed the OVU ref of your console) could conceivably set to whatever non-standard level you want.

Black sections at bottom of 24-bit scales contains only quantisation error/noise

,-18dBFS, -12dBFS, -20dBFS

- -18dBFS : EBU ,
- -12dBFS : 16-bit ,
- -20dBFS : SMPTE , ¹⁾

+4dBu ,
-18dBFS .

-18dBFS ²⁾ . ,

0dBFS -18dBFS 18dB , RMS Peak , 가
18dB .

Reference

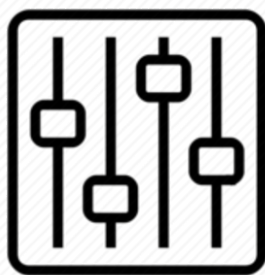
- <https://tech.ebu.ch/docs/r/r068.pdf>

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¹⁾

²⁾

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