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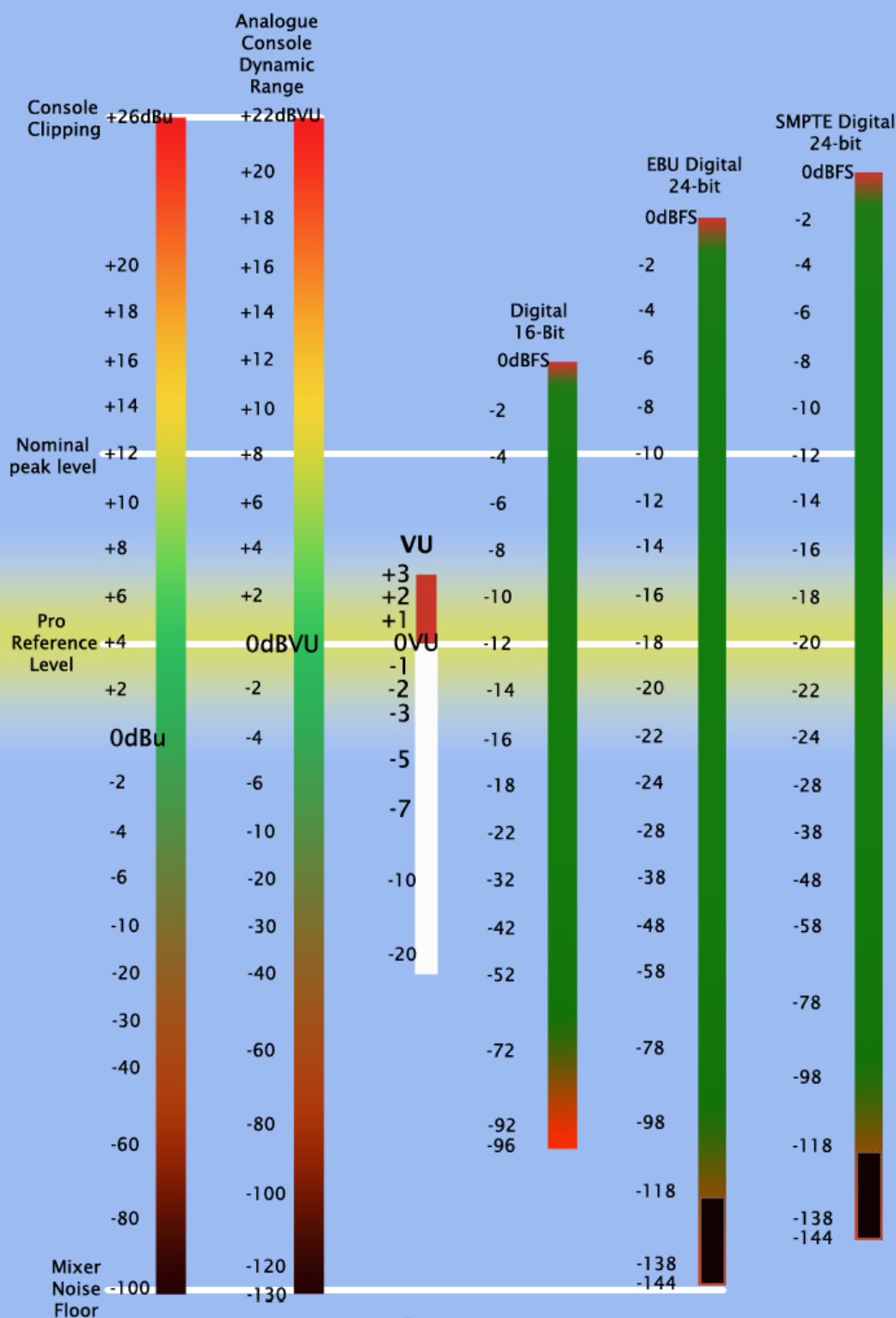
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Reference Levels - Analogue and Digital Scales, Meters and Dynamic Range



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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 11.8 dB

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.

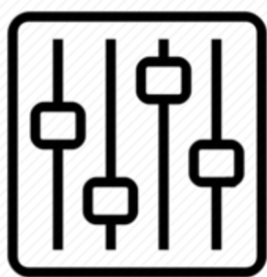
Black sections at bottom of 24-bit scales contains only quantisation error/noise

. EBU , SMPTE

- () : +4dBu, -10dBV
- () : -18dBFS , -20dBFS
- 16-bit () : -12dBFS

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: (admin@homerecz.com)