



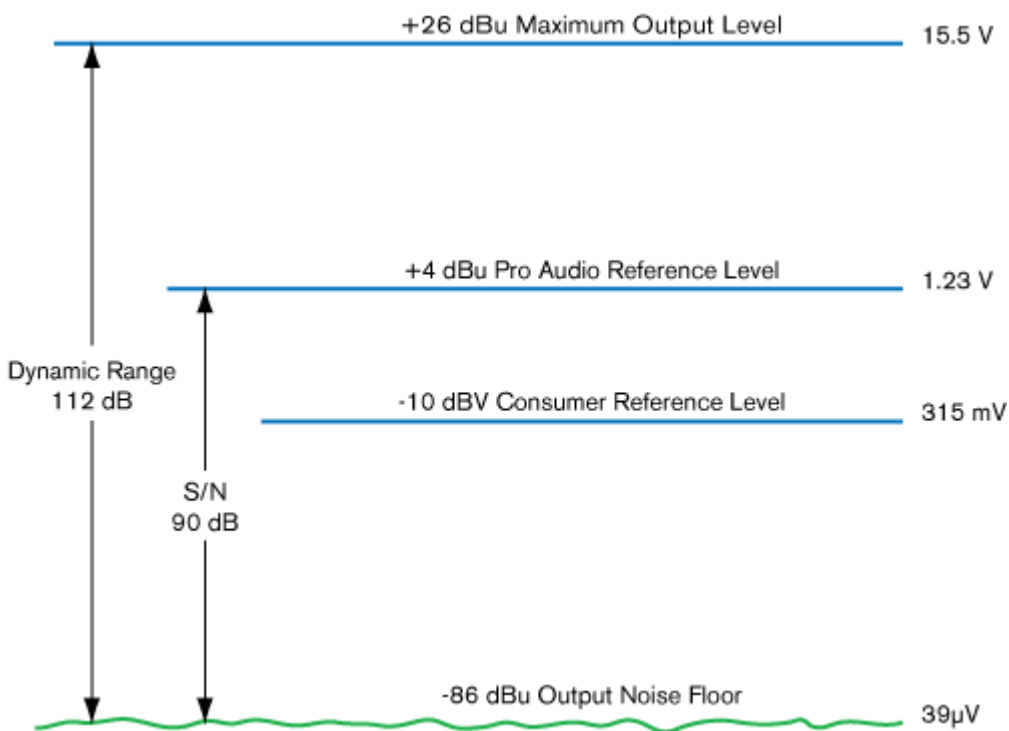
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Dynamic Range

- () : 가
- : 가 가

가 가 가 가



	120~130dB ¹⁾
()	70~90dB

()	110~120dB
	120~130dB ²⁾
	90~110dB ³⁾
	100~120dB ⁴⁾
()	60~70dB
	70~80dB
	60~70dB
16bit	90~96dB
24bit	110~120dB
FM	50dB
	100~110dB

- https://en.wikipedia.org/wiki/Comparison_of_analog_and_digital_recording

MaxSPL Self-Noise 가 .

Self-Noise ~ MaxSPL

)

- MaxSPL : 145dB SPL
- Self-Noise : 20dBA

: $145\text{dB SPL} - 20\text{dBA} = 125\text{dB}$

가 , EIN(가

)

EIN

EIN(가)

EIN = -130dB: “

130dB

.”

$0\text{dBu} = 0.775\text{V}$

가

-100dBu

0.000021909V

0dBu

22dBu

-100dBu

22+100=122dB

가

(Max SPL) (dB) 가 가 (Self-Noise) 가

= MaxSPL - Self-Noise

)Genelec 8030C = MaxSPL 110dB SPL - Self-Noise 5dB = 105dB

UA apollo x6

ANALOG I/O	
Microphone Inputs 1 - 2	
Frequency Response	20 Hz – 20 kHz, ±0.05 dB
Dynamic Range	122 dB (A-weighted)
Total Harmonic Distortion + Noise Ratio (1 kHz @ 4.9 dBu)	-114 dB (0.00020%)
Maximum Input Level (PAD on)	26 dBu
Default Input Impedance	5.5k Ohms (variable via Unison plug-ins)
Gain Range	+10 dB to +65 dB
Pad Attenuation (switchable per input)	20 dB (variable via Unison plug-ins)
Phantom Power	+48V (switchable per mic input)
Connector Type	XLR Female, pin 2 positive
Hi-Z Inputs 1 - 2	

ua apollo x6 PAD on 26dBu⁵⁾, 가 122dB, 122-26= 96, -96dBu

RME octamic

- > Maximum output level: +21 dBu
- > Output impedance: 75 Ohm
- > Output level switchable Hi Gain / +4 dBu / -10 dBV
- > Signal to noise ratio (SNR): 129 dB EIN @ 150 Ohm
- > THD: < 0.0005 % @ 30 dB Gain
- > Large frequency range (200 kHz) with special EMI input filtering
- > Frequency response -0.5 dB: 5 Hz - 200 kHz
- > Hi-pass filter: 80 Hz, 18 dB/oct.
- > Line Out: 1/4" TRS (6.3 mm stereo jack), servo-balanced
- > Phantom power: +48 Volt switchable per channel
- > Internal wide range switching power supply 100-240 Volt AC
- > Unbeatable price/performance ratio!
- > AD conversion
- > SNR: >110 dB(A)

RME

21dBu, SNR

110dB

, SNR

-106dBu⁶⁾

$$21 + 106 = 127dB$$

Rode K2

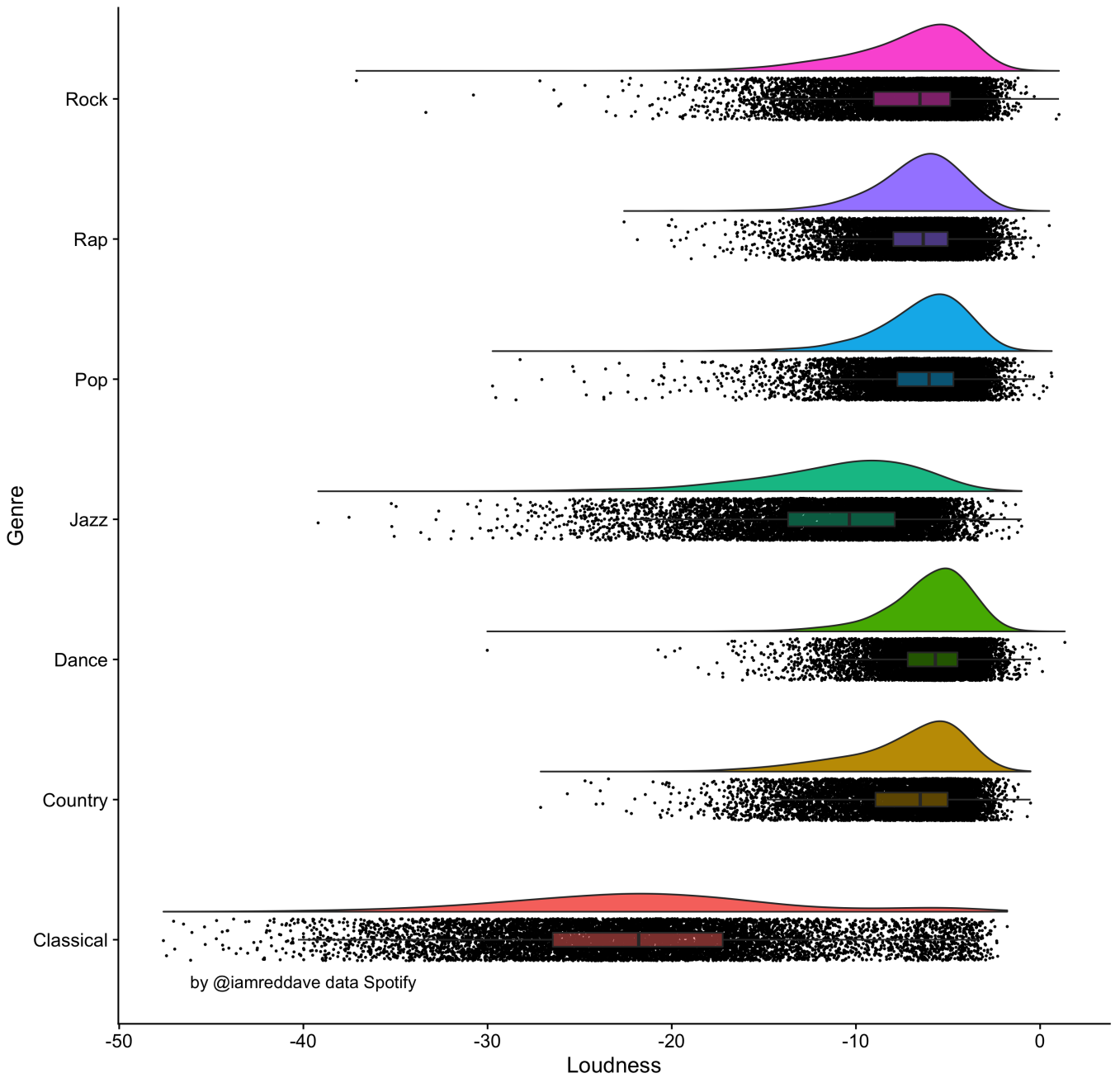
Maximum SPL	162dB SPL
Maximum Output Level	30.0mV (@ 1kHz, 1% THD into 1KΩ load)
Sensitivity	-36.0dB re 1 Volt/Pascal (16.00mV @ 94 dB SPL) +/- 2 dB @ 1kHz
Equivalent Noise Level (A-Weighted)	10dBA

MaxSPL 162dB SPL , Self-Noise 10dBA .
 162-10dBA= 152dB 가 .

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4753356/>

가 가
 .
 12dB , EDM Rock 6dB
 . 12~20dB 가 ,
 가 가 20dB~30dB .
 VU -20VU ~ +3VU , 가 가
 20dB 가 -20VU
 . 0VU +3VU

Song Loudness by Genre



- 1) 가 Rode NT1 MaxSPL 135dB SPL, 4.5dBA
130.5dB 120dB
 - 2) 가
EIN 130dB 가
 - 3) , Neve
AIR 106dB
- <https://www.ams-neve.com/award-winning-scores>

Yamaha DM7: 117dB

5)

PAD on

6dBu . UA

PAD on

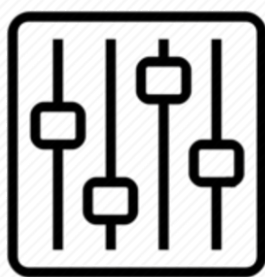
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PAD off

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6)

= +4dBu



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