

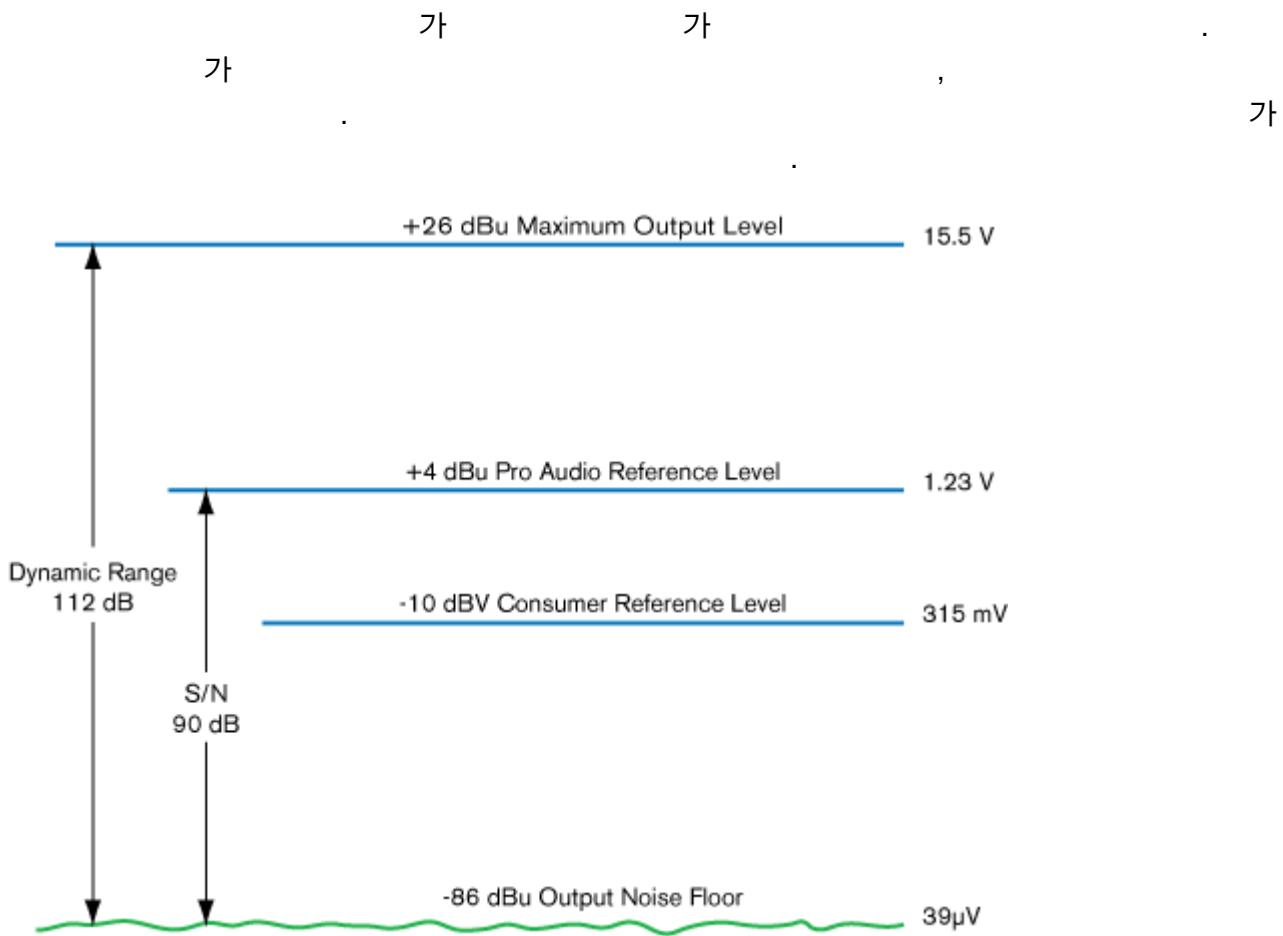


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Dynamic Range

Dynamic Range is a concept used in audio and music, representing the difference between the quietest and loudest parts of a sound. It signifies the diversity and intensity of the sound, serving as a crucial factor that determines the quality and expressiveness of music and audio.



MaxSPL Self-Noise 가

Self-Noise ~ MaxSPL

)

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

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

Gain Range 가

가

EIN

EIN 150Ω

EIN = -130dB :

= 130dB

0dBu=0.775V

가

-100dBu

0.000021909V

, 0dBu

22dBu

, -100dBu

22+100=122dB

가

UA apollo x6

ANALOG I/O	
<i>Microphone Inputs 1 – 2</i>	
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 26dBu¹⁾
 , 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
		-106dBu ²⁾	

$$21 + 106 = 127 \text{dB}$$

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

$$162 - 10 \text{dBA} = 152 \text{dB}$$

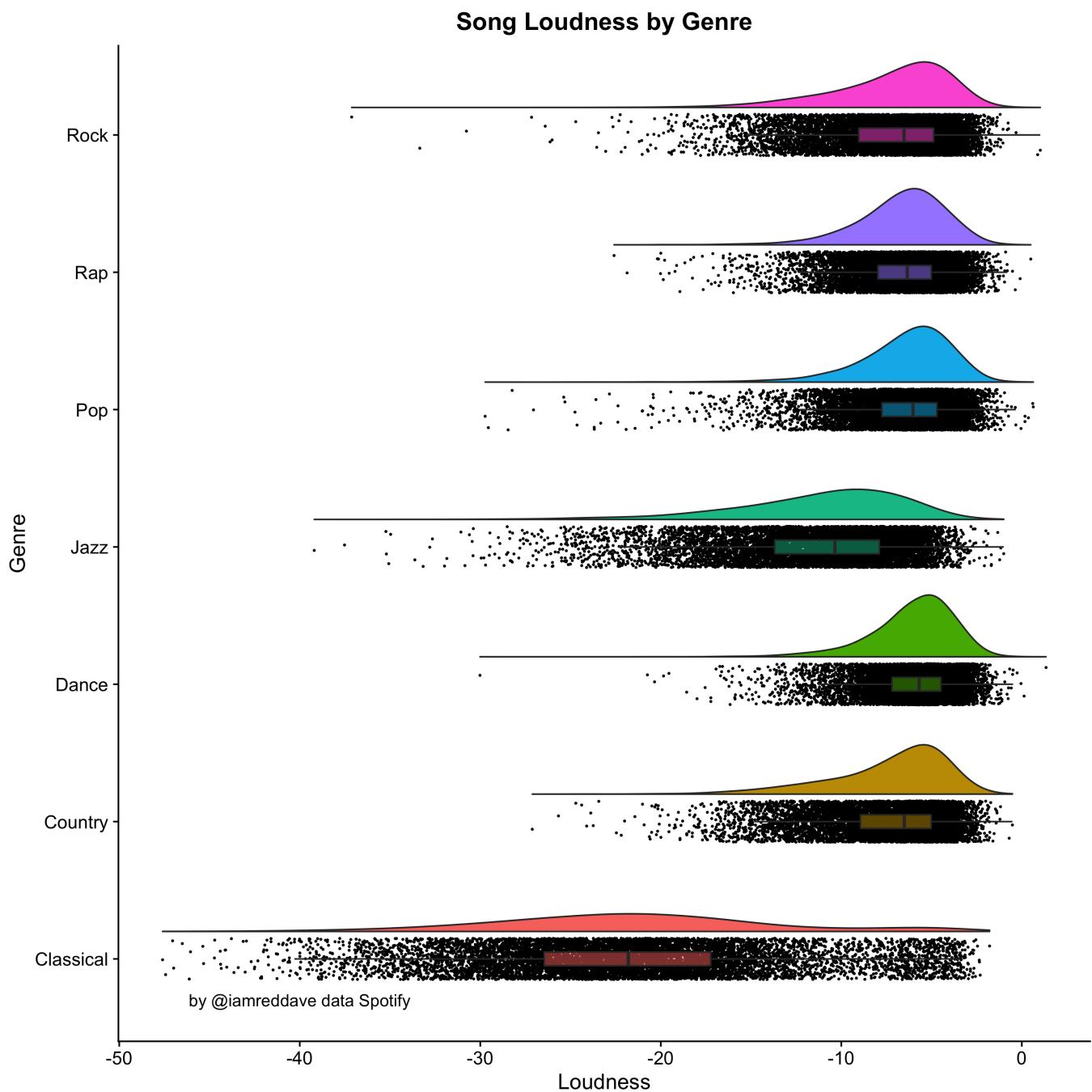
가

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

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

가

Loudness Range



?

?

가

가

가

가

ADC DAC

/

DAC

,

가

³⁾

가

Active Buffer

가

가

가

가

가

가

- Facebook
- Twitter
- Email

- Facebook
- Twitter
- Email

1)

PAD on

6dBu UA

PAD on

PAD off

2)

= +4dBu

3)

?



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Last update: **2024/03/28**

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