



ROYER dBooster

In-Line Signal Booster

The Royer model R-DB20 is a phantom-powered ribbon and dynamic microphone signal booster and impedance buffer. It increases the level of passive low-output ribbon and dynamic microphones with a minimum of distortion or coloration. Designed for professional applications, the dBooster provides two levels of clean gain boost; 12dB and 20dB, selectable by a front panel switch. The dBooster maintains headroom and gain regardless of load.

The Class A input circuitry presents a high source impedance to the microphone, which minimizes loading (damping). This reduces coloration and distortion while at the same time improving headroom.

By utilizing the 12/20dB gain switch, optimum balance between gain and headroom can be achieved for a variety of uses.

The low-impedance output of the dBooster is an increased microphone-level signal that can drive a digital interface directly or a standard microphone preamplifier. It also minimizes signal loss on long cable runs.

RECOMMENDED APPLICATIONS

- Miking any low-volume sound source (acoustic instruments, vocals, etc.)
- Recording direct to a DAW interface
- Use on long cable runs to retain sound quality

FEATURES

- 12dB and 20dB gain stages
- High input impedance
- Low output impedance
- Rugged case construction
- Ultra-low noise performance
- Ultra-low distortion
- Wide frequency bandwidth

BENEFITS

- Safe for use on all ribbon mics
- Increases headroom at the preamp
- Provides true electrical isolation
- Protects ribbon mics from phantom-power
- Minimizes mic loading
- Capable of driving difficult loads, such as mic splitters and vintage style preamps, without increased distortion or loss of gain



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Technical Specifications



Gain: 12dB or 20dB switchable

THD+N: @ 20dB Gain = .0015%, -25dBu input signal,
1.3Vp-p output signal
@ 12dB Gain = .001%, -6dBu input signal,
3.66Vp-p output signal

IM Distortion: @ 20dB setting, < .002% @ 800mV output,
@ 12dB setting, < .005% @ 2.6volts output

Self-Noise: referred to -48dB re. 1V/Pa ,
20dB setting < 11dBa,
12dB setting < 15dBa

Headroom: referred to -48dB re. 1V/Pa and 4mV/Pa,
20dB setting: 127dB,
12dB setting: 120dB

Frequency response: 20Hz-20kHz +/- .25dB

Input Impedance: 3.6K-Ohm

Output Impedance : (at 20dB setting) 300-Ohms

Current draw: approximately 5mA at zero signal and 7.5mA
at full output

Input and output connections: Balanced XLR: (Pin 1 Ground, Pin 2 Signal
Hot, Pin 3 Signal Cold)

Power: 48-Volt phantom

Dimensions: 3.62" (92mm) L X 2.0" (51mm) W X 1.62"
(41.3mm) W

Weight: 6 oz (170g)

WARRANTY

The dBooster is covered by a one-year warranty. This warranty covers parts and labor but does not cover damage as a result of misuse or abuse.

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