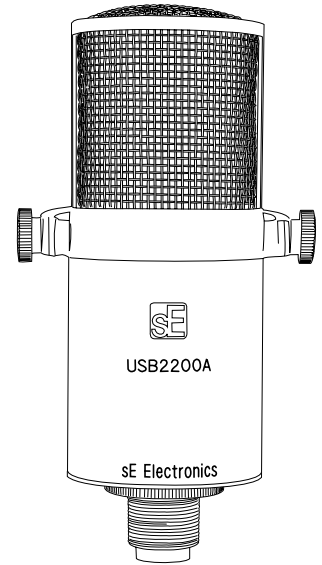


## USB2200a – Technical Information

Based on the studio standard sE2200a, the USB2200a records via USB directly to your DAW and has several features unique from competitor USB mics including, zero latency headphone monitoring, mix control playback/record path, 10dB pad, bass cut and simultaneous analogue/USB feeds.

The USB2200a also has a proprietary chip and software set which deals with capsule noise when transforming the 5v power supplied via the USB cable to power the capsule, by first removing noise and spikes from the current. This noise would normally be amplified, which is why other USB mics are too noisy to use in a professional environment.

No other USB mic on the market offers this kind of specification, and it makes a huge difference to the performance for studio use. The chip also delivers true plug in and play capability, automatically configuring the mic to the host as it is connected.



### Technical Specifications

Acoustical operating principle:	Pressure gradient transducer	Maximum SPL for THD 0.5% <sup>2</sup> :	123 dB (cardioid)
Directional pattern:	Cardioid	Maximum SPL for THD 0.5% with preattenuation <sup>2</sup> :	133dB
Frequency range:	20 Hz ... 20 kHz	Maximum output voltage:	1500 mV
Sensitivity at 1 kHz into 1 kohm:	55 mV/Pa <sup>1</sup>	Dynamic range of the microphone amplifier (A-weighted):	109dB
Rated impedance:	50 ohms	Supply voltage (P48, IEC 61938) :	48 V ± 4 V
Rated load impedance:	1 kohms	Current consumption (P48, IEC 61938):	4mA
Equivalent noise level, CCIR1) :	27dB	Matching connectors:	XLR3F
Equivalent noise level, A-weighted <sup>1</sup> ):	14dB-A	Weight:	565g
Signal-to-noise ratio, CCIR1) (rel. 94 dB SPL):	69dB	Diameter:	59mm
Signal-to-noise ratio, A-weighted <sup>1</sup> ) (rel. 94 dB SPL):	82dB	Length:	163 mm

#### Technical Parameters:

1. USB 2.0 USB1.x compatible
2. Stereo D/A and A/D conversion
3. Zero latency Headphone monitoring
4. Gain Control built in
5. At THD > -90db, SNR 96db (D/A conversion)
6. At THD > -90db, SNR 92db (A/D conversion)
7. Adaptive 44.1 to 48kHz sampling frequency

USB Connection via a 5-pin mini B, USB cable

1) According to IEC 60268-1; CCIR-weighting according to CCIR 468-3, quasi peak; A-weighting according to IEC 61672-1, RMS

2) Measured as equivalent el. input signal

### Polar pattern and Frequency Chart

#### Hypercardioid

- 125Hz
- 250Hz
- 500Hz
- 1KHz
- 2KHz
- 4KHz
- 8KHz
- 16KHz

