

SPXOne

more innovation
more flexibility
more power



Professional Acoustic Limiter



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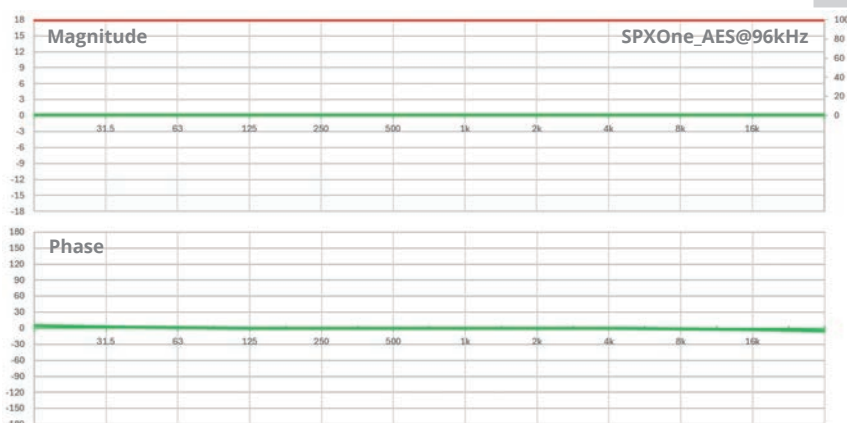
Spectral acoustic limiter in 1/3 octave

The SPXOne is a 1/3 octave acoustic limiter, with 21 bands between 50Hz and 5kHz as required by regulations. It allows you to adjust the maximum level of the pub and enter the insulation curve and the expected level in the home or outdoors. In addition, with its 31-band GEQ between 20Hz and 20kHz you can adjust the emission spectrum of your audio equipment with maximum precision.

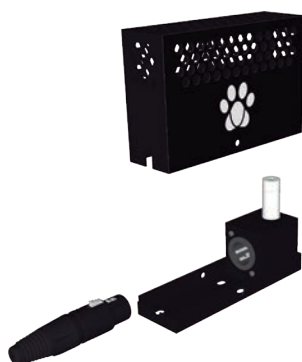
High quality sound in analog and digital formats

The SPXOne incorporates high-quality analog audio inputs and outputs, with a sampling frequency of 48 kHz@ 24 bits, which adjust to any audio equipment, obtaining optimal sound quality. It also has digital inputs and outputs in AES/EBU format with sampling frequencies up to 192kHz for the control of the most demanding installations.

The electronic design of the SPXOne achieves absolute transparency in the processing of audio throughout the frequency spectrum, with extraordinarily low delays (Analog IN/OUT: 0.44 ms, Digital IN/OUT: 0.04 ms) and without phase modification, which allows its use in live performances (concerts and festivals).



Complete flexibility in parameter registration



The SPXOne allows the connection of 2 registration sensors. Its robust design and small size allow for very quick fixing and sealing. Additionally, the 1/2-inch diameter microphone allows for system calibration. Its dynamic range is 20Hz to 20kHz and the measurement range is 40 to 120 dBA. The parameter recording time is configurable between 2, 3, 5, 6 and 10 minutes and the weighting can be A or C, achieving recording capacities greater than 2 years. The SPXOne can send all recorded data to a remote server in real time, or it can be consulted on the Glove Pro Audio control website.

Intuitive configuration environment

Programming the SPXOne is very simple thanks to the SPXOne Control configuration software designed by sound technicians to have an intuitive and friendly appearance.





TECHNICAL SPECIFICATIONS

Limiting function

Type	Spectral in 1/3 octave
Frequency range	21 bands btw 50 - 5kHz according to regulations
Setting	Max level allowed in the pub / acoustic isolation + max level in adjacent home
Control algorithm	Full bandwidth without pitch modification / discrete frequency modification
Control	Independent on both channels (double limiter function)
Graphic EQ	31 bands, 1/3 octave between 20 - 20 kHz
Number of channels	2 independent channels (control of 2 different acoustic signals)

Datalogger function

Number of sensors	2
Weighing	A / C
Dynamic range	50 - 20 kHz
Measurement range	40 - 120 dBA
Parameters	LAeq, LReq, L50, statistics and expected levels in adjacent enclosures / outdoors
Measurement interval	2, 3, 5, 6 and 10 minutes
Capacity	> 2 years

Schedule control

Weekly control	4 time slots, including mute
Periods	20 with mute time variation
Special days	30 with mute schedule variation and operating exceptions
Capacity	> 2 years without assistance

Audio inputs

Number	2 analog line audio / 1 digital audio (AES-EBU), 2 sensor inputs
Connectors	2 XLR female (1 analog / AES select), 2 XLR female for sensors
Type	Electronic balanced with RF filter
Impedance	> 20kOhm, balanced line to line
Input level	Electronically adjustable between +14, +22, +28dBu
Maximum input level	> +28dBu, balanced, < 1% THD
CMRR	> 52 dB @ 1kHz

Audio outputs

Number	2 analog line audio / 1 digital audio (AES-EBU)
Connectors	2 XLR male (1 analog / AES select)
Type	Electronic balanced with RF filter
Impedance	120 Ohm, balanced line to line
Output level	Electronically adjustable between +14, +20, +24dBu
Maximum output level	+24 dBu, balanced, <1% THD

A/D performance

A/D converters	24 bit with SPX conversion system
A/D converter dynamic range	112 dB A-weight, 110 dB unweighted, 22 kHz BW

D/A performance

D/A converter	24 bit
D/A converter dynamic range	112 dB-A weigh, 110 dB unweighted, 22 kHz BW

System performance

Number of CPUs	2 con FPU
Internal processing	32 - bit floating point
Sampling Rate	48 kHz (analog) - 48/96/192kHz (digital)
Dynamic range	112 dB-A weigh, 110 dB unweighted
THD + Noise	0.0025% typical @ +4 dBu, 1kHz, 0 dB input gain
Frequency response	20 Hz - 20 kHz, +0 / -0.5 dB
Crosstalk between channels	< -95dB, -105 dB typical @ 20-20 kHz, +4 dBu
Latency (Analog IN-OUT)	0.44 ms @ 48kHz
Latency (Digital IN-OUT)	0.04 ms @ 96kHz
Temperature range	0 - 65°C

Configuration and setup

Type	Multi-device via APP
Port	RJ-45
APP S.O.	Windows 8/10/11 & ControlWeb
Security	Digital key on device + license on APP
System clock	Automatic time update (SNTP)

Transmission of data recorded

Type	In real time via ETHERNET & WiFi
Data sending protocol	TCP/IP

Power supply

Voltage	100 - 240 VAC @ 50 / 60 Hz
Consumption	10 W

Physical characteristics

Unit weight	2.2 kg
Packed weight	4.0 kg
Dimensions	484 x 45 x 170mm (19" rack)

Presets

P1	Stereo Analog IN - Stereo Analog OUT
P3	Stereo Digital IN - Stereo Digital OUT
P4	Stereo Digital IN - Stereo Digital OUT + Mono Analog Monitor (L+R)



Multiple external displays

Connecting an external display is very simple. Simply open the browser of a tablet, smartphone, PC, etc., write the name of the SPXOne on the network in the search bar and all the information that the DJ or sound technician needs will be displayed on the screen.

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