



Product information for market launch

This document contains confidential information about a product,
that we will be launching in the near future.

They serve to prepare the start of sales and are exclusively for
distributors and dealers of SPL electronics GmbH.

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Pre One

The Dual-Channel Microphone Preamplifier

with discrete technology for outstanding sound.



NUMBER One IN SOUND

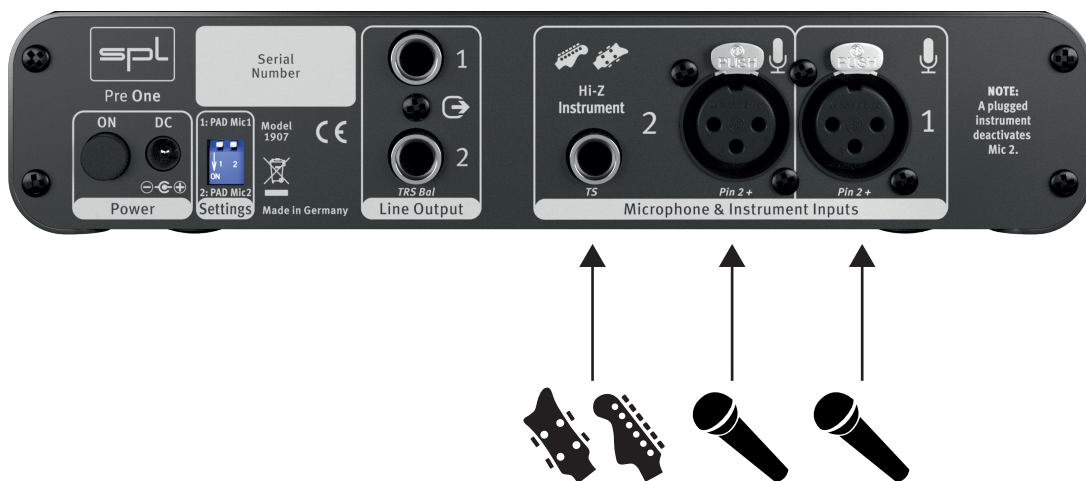
For us the sound is always in the foreground. When it sounds good, we like to listen. To get such a sound, you need experience and technical finesse. We have incorporated both into the Series One.



Discrete preamplifiers

Pre One is equipped with two preamplifiers. These have a discrete design and they are tuned for an open and transparent sound characteristic. In addition to the microphone input, the second preamplifier also features a Hi-Z instrument input – so instruments like electric guitars, for example, can benefit from the sound of the Pre One.

In terms of technology and sound, the preamps have the same characteristics as those in the SPL Channel One Mk3!





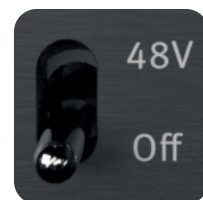
The gain control can be used to adjust the preamplification. The control range ranges between +8 and +62 dB – so even really demanding microphones can unfold their full potential!
(The green signal LED indicates that a signal is present.)



A high-pass filter with 6 dB per octave is available in both preamp sections and reduces subsonic noise below 80 Hz when activated. This low-cut filter can be used for the microphone inputs as well as for the instrument input on the second amplifier.

48V

Both preamplifiers have a 48V switch. This switch activates the required phantom power of 48 volts for the use of condenser microphones.



The phase reverse function of every preamplifiers reverses the polarity of the signal. After pressing the switch, the phase is reversed by 180°.



Flair / Contour – The perfection of sound



For each of the two preamps, Flair and Contour provide an analog EQ preset to perfect the sound.

When Flair is activated, it gives the signal an incredibly beautiful range of high frequencies – silky highs is the key word here.

When Contour is activated, the signal perfectly blends into a compact mix while retaining its natural presence and strength.



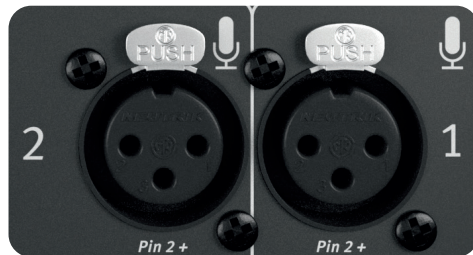
PAD

The PAD switches for each preamp section are located as DIP switches on the rear of the Pre One. These activate an attenuation of the signal of the microphone input by 20 dB, so that even very high levels can be processed with the Pre One. This is the case, for example, with loud percussion or brass recordings.





Mic inputs



Two microphones can be connected to Pre One and be amplified simultaneously.

The microphone inputs are equipped with Neutrik XLR sockets and goldplated contacts.

The signal transmission is electronically balanced, at a nominal level of +0 dBu.



Instrument input

The preamplifier 2 of the Pre One also features an ultra low-noise Hi-Z instrument input – so instruments with a Hi-Z signal, such as electric guitars, electric basses or various synthesizers, can also benefit from the sound of the Pre One. If an instrument is plugged into the instrument input, mic input 2 is deactivated.





Line outputs

Each of the two microphone preamps has a separate line output. These outputs are designed as balanced TRS socket and can therefore be ideally connected to all audio interfaces.

Pre One is the perfect addition to the SPL Marc One – monitoring and recording controller.

Together, both devices offer everything you need for professional recording and monitoring!

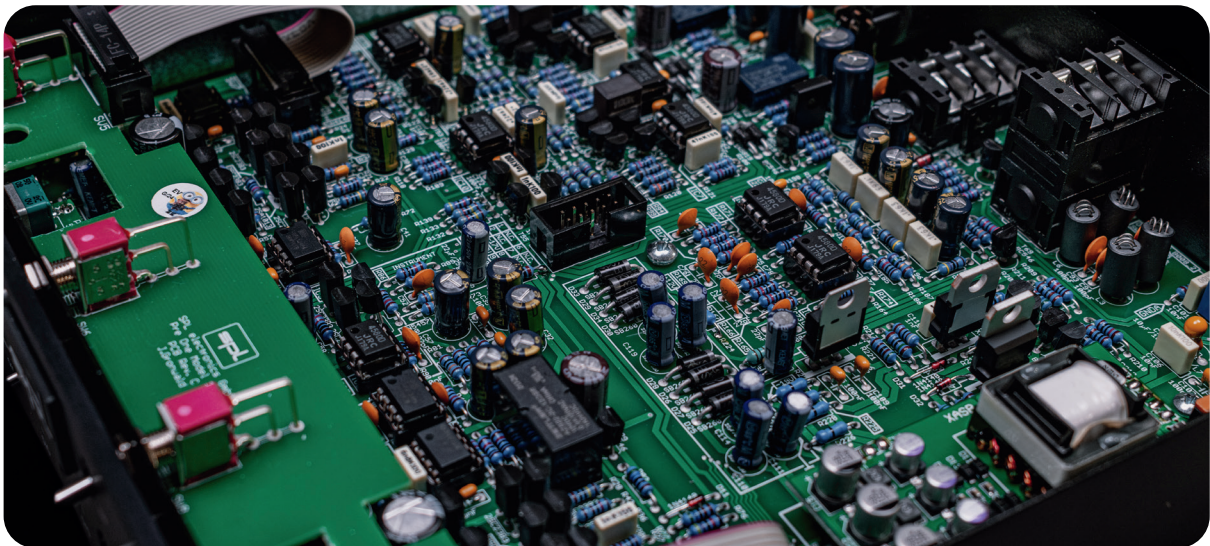




Power Supply

Good sound always starts with the power supply. This is where you lay the foundation for the performance of the entire device. Although we “only” supply a 12 V plug-in power supply unit, the secondary power supply inside generates a voltage level of +/-17 volts for the analog audio sections with which professional levels of up to +22.5 dB can be achieved!

An elaborate low-drop operating voltage regulation provides more “juice” and regulates cleanly even when the maximum operation voltage is reached.



Number One in Sound

With the Series One – just as with all other SPL devices – we develop not only according to plan, but also by ear from the very beginning. Many important components are installed on the circuit boards using Through-hole technology. This way we can ensure that we can use the best sounding components.

Home is where the heart is

That's why we manufacture all devices in our own production facility
in Niederkrüchten on the Lower Rhine, Germany.



Specifications

Analog inputs & outputs; XLR (balanced) & Jack (balanced)

Maximum output gain	+22 dBu
Maximum input gain (Mic, +8 dB Gain)	+13,5 dBu
Maximum input gain (Inst, -6 dB Gain)	+23,5 dBu
Input impedance (Mic)	10 kΩ
Input impedance (Line)	1,1 MΩ
Output impedance	75 Ω
Frequency range	10 Hz – 200 kHz
Equivalent Input Noise (EIN)	126 dBu
Noise (A-bewertet, Mic Preamp, 150 Ω, 30 dB Gain)	-95 dBu
(A-bewertet, Mic Preamp, 150 Ω, 62 dB Gain)	-68 dBu
Common mode rejection (1 kHz) Mic Eingang	> 75 dB
THD+N Ratio (1 kHz), Mic 30 dB Gain	0,003 %
Mic 62 dB Gain (Max.)	0,018 %
Signal LED	-25 dBu
Dynamic range	117 dB

Internal Linear Power Supply with Toroidal Transformer

Operating voltage for analog audio	+/- 17 V
Operating voltage for relays and LEDs	+/- 12 V
Phantom power	+48 V

Mains Power Supply

Plug-in power supply	Input 100 V – 240 V AC, 50 Hz/60 Hz
	Output 12 V DC
Power consumption	max. 7 VA

Dimensions & Weight

W x H x T (width x height x depth)	210 x 49.6 x 220 mm
	8.23 x 1.95 x 8.66 inch
Unit weight	1.5 kg
	3.3 lbs
Shipping weight (incl. packaging)	2 kg
	4.4 lbs