

# Channel One Model 9945



## SPL CHANNEL ONE

The Channel One is a complete channel strip with all the tools onboard for recording voices, instruments and digital or analog audio sources with the highest sound quality: a transistor/tube preamplifier, a de-esser, a compressor/limiter with noise gate, an EQ section and a headphone monitor.

The concept of the Channel One is as the ideal recording tool – for hard disk tracking as well as for analog environments. Intelligent automation ensures intuitive, fast operation and guarantees the finest recording results.

The preamp stage provides three (four with converter option) optimised inputs: The microphone input features 48V phantom power, phase reverse function and a subsonic filter. The low-impedance Line input has a precise balancing stage for connecting studio equipment. The low-noise, high-impedance instrument input is easily accessible on the front panel. Digital insert is possible using the optional AD/DA converter.

The de-esser subtly yet effectively removes offending sibilants by processing only the “S” frequencies. The Auto-Threshold mode ensures constant processing even when the microphone distance varies. All the user need do is set the desired S-reduction. Insert (Send/Return) allows external effects devices to be looped in or the unprocessed pre-stage signal to be sent out.

The Compressor/Limiter section is based on SPL’s Double-VCA-Drive® circuitry with its outstanding noise and distortion characteristics. The compressor is extremely easy to use via a single knob; its strength lies in the inconspicuous, musical way in which it works.

The Noise Gate operates flawlessly; reverbs are recognized and not cut off. For the Channel One an EQ section was designed especially for processing voices as well as acoustic or electronic instruments. In addition to Low, Mid-Hi and Air-Band filters, a field-effect distortion stage is used to subtly distort the signals in a way that lends

character. The headphone monitor allows the singer or speaker to get an individual mix directly and without latency problems in hard disk recording systems.

The options include a 24/96 AD/DA converter as well as a sound enhancing Lundahl in- and output transformers.

## Specifications

### Microphone input

Frequency response	10 Hz-100 kHz (100 kHz = -3 dB)
Common mode rejection	1 kHz: -80 dB / 10 kHz: -78 dB (@ -20 dBu)
THD & N	Gain: A-weighted
	20 dB -97.1 dBu
	40 dB -91.1 dBu
	65 dB -69.4 dBu
Dynamic range	118 dB

### Line/Instrument input

Frequency response	10 Hz-180 kHz (100 kHz = -3 dB)
Common mode rejection	1 kHz: -80 dB / 10 kHz: -78 dB (@ 0 dBu, Line input only)
THD & N	Gain: A-weighted
	5 dB -99.4 dBu
	20 dB -97.2 dBu
	42 dB -79 dBu
Input impedance	Line: 20 kOhm / Instr.: 1 MOhm
Max. input level	Line: +22 dBu / Instr.: +14 dBu
Dynamic range	119 dB

### Output data

Max. output level XLR/jack	+20 dBu
Output impedance	50 Ohm

### Power supply

Toroidal transformer	20 VA
Fuses	315 mA (230 V/50 Hz)
	630 mA (115 V / 60 Hz)

### Dimensions

Standard EIA 19”/2U	482 x 88 x 210 mm
Weight	4.15 kg

### Keyboards 5/00 (D), Jörg Küster

“With its Channel One SPL has pulled a masterpiece out of its hat: So much sound quality at a moderate price is something you won’t find every day, and the term “outstanding” is truly deserved in this case. The ease of operation will also be welcome to unpracticed users, while pros will likewise appreciate its user-friendliness. Anyone looking for the perfect channel strip should not make up their mind before lending an ear to the Channel One.”

### Studio Magazin 3/00 (D), Fritz Frey

„The singer, the DJ in the radio station, the ad voice and lots of musical instruments will thank you for acquiring this unit. With this device the manufacturer has filled a previously unoccupied price niche at an extremely high level of quality. Really something for the competition to fear! This kind of quality, product design and need-sensitive market positioning is getting to be a habit of SPL.”

