

Tube Vitalizer® Model 9530



SPL TUBE VITALIZER®

The Tube Vitalizer® is the top-of-the-line in the Vitalizer Program EQ family from SPL – the reference technology for sound optimisation featuring the highest sound quality and control precision. Like all our Vitalizer products, it is designed based on the principles of human hearing to produce more intelligible, non-fatiguing sounds. The Tube Vitalizer allows you to massage both the dynamics and the finest details of the audio signal. Compared with traditional equaliser designs, the Vitalizer is very easy to adjust using relatively few controls. Even aside from the vast sound shaping possibilities, the audio signal is given an improved depth and perspective, more weight in the basses, clear and better differentiated mids and silky, brilliant highs.

To implement the Tube Vitalizer in a technically optimal way, a combination of tube, coil, transistor and semiconductor technology was created which consistently takes advantage of the respective sound advantages of these components and which can be individually configured to best suit the audio being processed. Accordingly only selected high quality components are used throughout.

Operation

The Tube Vitalizer is divided into two sections: The Vitalizer stage and the tube stage. Actuation of the Vitalizer stage is determined by the drive control, with the other control functions including bass and top-end compressor, bass sound control (Soft/Hard), mid- and high-frequency control as well as separate controllers for setting the process intensity for the bass and mid-range and for the high-frequency range. Depending on the requirements, the bass and high-frequency filters in the Vitalizer stage can be operated selectively with RC or LC filters.

The switchable tube stage is based on a 3-tube circuit in which the stereo signal passes through the third tube again, enhancing the spatial impression. Separate attenuators for the two output channels are used to select between attenuation or limiting, allowing any level increase caused by the preceding Vitalizer processing to be corrected.

Applications

In the professional recording studio and in mastering applications the Tube Vitalizer meets the highest demands – from single channel processing to fine tuning complete mixes and many of these models are used for high-end restoration work.

Specifications

Inputs and outputs

Instrumentation amplifier, electronically balanced (differential), transformerless, XLR and jack connectors

| | |
|---------------------------------------|-----------|
| Nominal input level | +6 dB |
| Input impedance | =22 kOhm |
| Output impedance | < 600 Ohm |
| Max. input level | +24 dBu |
| Max. output level | +22 dBu |
| Minimum load | 600 Ohm |
| Relay hard bypass / power fail safety | |

Measured data

| | |
|---------------------------|-----------------------------|
| Transmission bandwidth | 10 Hz-100 kHz (w/out tubes) |
| (100 kHz = -3 dB) | 20 Hz-100 kHz (with tubes) |
| EQ frequency response | 20 Hz-22 kHz |
| Common mode rejection | > 85 dBu @ 1kHz |
| Total harmonic distortion | 0.002% @ 1 kHz |
| | 0.105% @ 10 kHz |
| Signal-to-noise ratio | Bypass: -87 dBu |
| (CCIR 468) | Active: -79 dBu |
| | All max.: -68 dBu |
| Signal-to-noise ratio | Bypass: -96 dBu |
| (A-weighted) | Active: -88.5 dBu |
| | All max.: -77 dBu |

Power supply

| | |
|--------------------------|--------------------------------|
| Toroidal transformer | 50 VA |
| Fuses (230/115 V) | 315 mA (230 V/50 Hz) |
| | 630 mA (115 V / 60 Hz) |
| Voltage selection switch | 115 V / 230 V, GND lift switch |

Dimensions

| | |
|---------------------|-------------------|
| Standard EIA 19"/2U | 482 x 88 x 237 mm |
| Weight | 4.9 kg |

Note: 0 dBu = 0.775 V

Paul White, Sound On Sound (GB)

"What a powerful tool this is! The amount of control you have over the tonality, weight, and balance of your signal is just wonderful. This isn't a budget box, nor would I expect it to be. It's priced on a par with other esoteric equalisers, but for those doing serious recording, mastering or post-pro sweetening, it's well worth the cost."

Bob Ludwig, Gateway Mastering

"I have been doing some re-issues and the Tube Vitalizer has been saving me! It is a fantastic tool for old tapes."



SPL ELECTRONICS GMBH
D-41375 NIEDERKACHEN
MADE IN GERMANY



VOLTAGE
SELECTOR
230-240V/50Hz
100-120V/60Hz



WIRE WIRING:
Pin 1 = GND
Pin 2 = (+)
Pin 3 = (-)
Pin 4 = (+)
Pin 5 = (-)
Pin 6 = GND

