



SPL KULTUBE

The Kultube is an extremely versatile compressor with a broad range of control facilities that cover all typical compressor applications. From improved stereo mixes in the “MIDI Studio” to surround mastering with several devices connected, all jobs can be undertaken to the highest degree of sound quality.

You can, for example, choose between the hard and soft-knee characteristic and insert external devices via a side-chain input for external control. With the unique “Progressive Time Control” for attack and release, time constants can be optimized by unique circuitry that reacts both to the input signal and to the user settings – for example, fast impulses are intercepted by an attack time as fast as 20 µs. In master/slave mode, any number of devices can be controlled from one master unit.

The adjustable tube saturation of the output stages combined with automatic output level adjustment can produce tube sound effects that range from the delicate to the raucous whilst a useful decompressor mode can reanimate overcompressed material (such as samples).

The Kultube user has a unique range of powerful compression tools always available, from subtle unobtrusive compression to very obvious ‘effect’ compressions – it’s all possible. Used conventionally or as an effect, in the MIDI and project studio or in the professional studio, the Kultube delivers outstanding audio quality with SPL’s acclaimed musicality and user-friendliness.

Applications cover those of a classic compressor for vocals and instruments, in both mono and stereo, through to stereo operation for subgroup processing, stereo mastering, multi-channel or surround projects.

Particular features

SPL has developed discrete, very high performance gain cells that are used instead of the usual VCAs and the Kultube is the first product to use them. They ensure the highest level of musicality and clarity in signal processing and demonstrate significantly improved distortion values over VCAs.

Equipment

- “Progressive Time Control”: user optimization of attack and release times that work in conjunction with the unit’s signal responsive circuitry – provides best attributes of manual and auto compressors at the same time.
- Adjustable tube saturation with output level adjustment
- Selectable soft or hard knee characteristics
- Unique decompression mode
- Large VU meter displays gain reduction or (mono summed) output level
- Switchable side-chain inputs on front panel
- Slave mode for multi-channel operation
- Options: 24/96 AD/DA converter, Lundahl input and output transformers

Specifications

Frequency response (100 kHz = -3 dB)	10 Hz-100 kHz
Common mode rejection (at 0 dBu)	1 kHz: -75 dB 10 kHz: -65 dB
THD & N (at 0 dBu)	-93 dB
S/N (A-weighted)	90 dBu
Input impedance Line	20 kOhm
Max. input level Line	+22 dBu
Max. output level XLR/jack	+24 dBu
Output impedance	< 50 Ohm
Power supply	
Toroidal transformer	30 VA
Fuses	400 mA (230 V/50 Hz) 800 mA (115 V/60 Hz)
Dimensions	
Stand.-EIA-19" / 2U	482 x 88 x 210 mm
Weight	4.3 kg

- Universal compressor for stereo mix or single channel processing.
- The complete repertoire of compressor characteristics is available, from sensitive level optimization through to powerful creative sound processing of the highest quality.
- It is possible to produce massive attacks and to significantly increase loudness without destructive side-effects.
- Effortless integration into digital environments with the optional 24/96-AD/DA converter.
- Ideal for “softening” too harsh sounds, for example, for making digital recordings more musical.
- Controls time constants ten times faster than software plug-in compressors.

