PUBLISON AUDIO-PROFESSIONAL

Get out of the Musical fog with the

Fullmost

DUAL RELIEF-ENLARGER DUAL DE-ESSER

Features

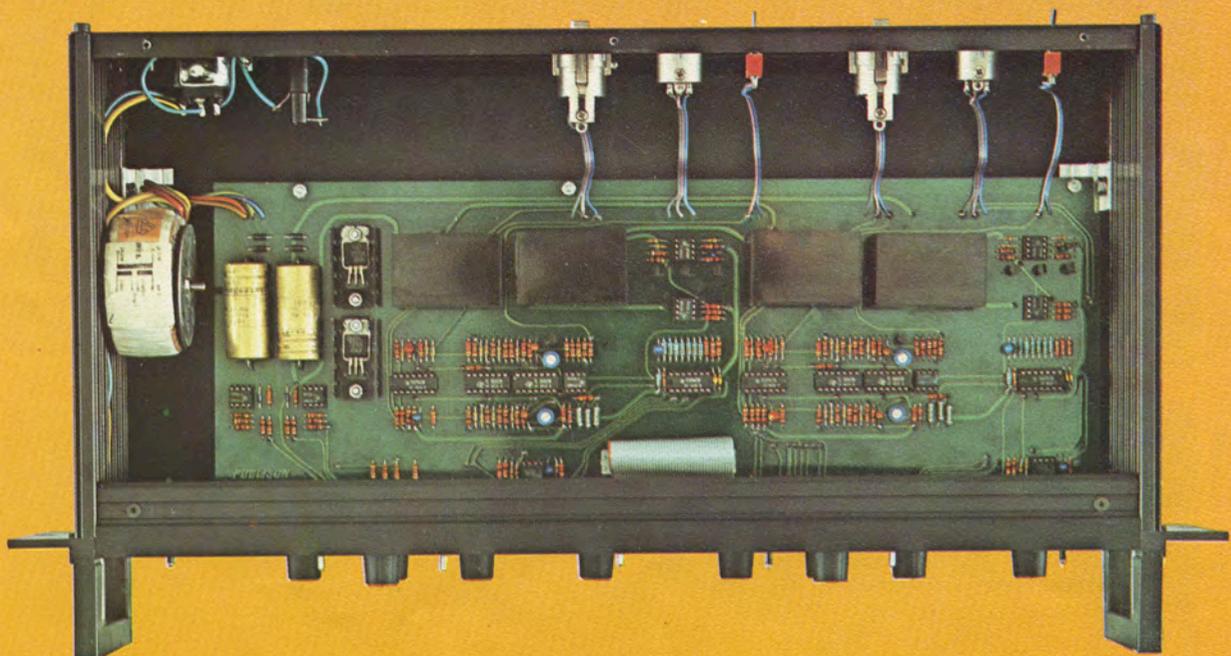- **For recording studios, broadcasting, T.V., live**

- **Dual relief enlarger**

  Gives brightness and relief to selected track of a multi-track mixing or to single voice, without altering levels.

- **Dual De-esser**

  Suppresses excessive sibilance on voice or music by frequency-selective compression. On "relative" position, it is automatically adjusted to average input level.

- **Balanced inputs and outputs**

- **XLR input and outputs connectors**

- **LED Vu-meters to control levels and sibilance reduction**

Relief Theory

When mixing human voice with many tracks of instruments, the voice is always masked by music, and losses its intelligibility. The FULLMOST, when inserted in the voice track, gives to it clearness and relief **without altering levels,** which does not change the general balance of mixing and doesn't create peaks or clipping phenomenas. The basic principle is to add to original sound a relief component which is obtained by delaying harmonic components of direct sound. A good relief effect can be obtained with a relief component 10 or 20 dB below the direct sound, which explains why the level does not know a great change (on condition that the balance between the two is well made). A RELIEF SLOPE setting gives to relief several colours to adapt it for different instruments (such as violins, cymbals, etc.), and make them more audible inside the orchestration, so that the user can obtain the exact colour corresponding to his own choice.

De-Esser Theory

At any time one work human voice, excessive sibilance can create many problems: unpleasant appearance, intermodulation or clipping problems. It can exist in natural voice itself, or can be created by several presence effects (such as relief of FULLMOST for example) or by excessive treble reinforcing. This problem exists in recording studios, scoring and broadcasting. For all these cases the de-esser section of the FULLMOST can be used either alone without relief, or added to the relief itself.

When sibilance frequencies are detected above the level of the THRESHOLD, a selective compression occurs on frequencies above 5 kHz. On position ABSOLUTE, the value of THRESHOLD is given in dBm by potentiometer. On position RELATIVE, the threshold is forced to track the average level of input signal, so that an automatic setting is made: The sibilance reduction occurs only if the ratio between sibilance frequencies and the average level trespasses the threshold level. A LED Vu-meter shows the amount of sibilance reduction.

How to use the FULLMOST

● **Connection :** ▓▓. The ▓▓▓▓▓▓ possibility is to drive the inputs of FULLMOST by send channels of the mixer, and to send the outputs of FULLMOST on return channels of the mixer. In that case the BALANCE is set completely on EFFECT, all the levels are set on the mixer.

● **Levels and Vu-meters:** The FULLMOST can be adapted to different external levels by means of an input gain setting (from minus infinite to +20 dB) and an output gain setting (from minus infinite to +0 dB). Each section (input or output) has a peak indicator. The inputs and outputs are both electronically balanced. The LED Vu-meter can be used to control either input level, or effect level, or output level by means of a 3 positions switch.

● **Mode Relief:** Set the MODE switch on DE-ESSED RELIEF. The colour of relief is set by the RELIEF SLOPE contractor. The BALANCE sets the intensity of the relief. The DE-ESSER is always connected with the relief, but can be suppressed by setting the THRESHOLD on + infinie.

● **Mode De-esser only:** Set the MODE switch on DE-ESSER ONLY, and the BALANCE completely on EFFECT Adjust the so that de-esser is active only on sibilants, but not on low and middle frequencies, which is shown by the LED scale SIBILANCE REDUCTION. On position RELATIVE, the threshold is forced to track the average level of input signal, which is especially interesting for human voice: this system avoids unwanted triggering of de-esser on harmonics of non sibilant sounds.

Spécifications

- **Input impedance:** 20 k ohm balanced
- **Output impedance:** 50 ohm balanced
- **Output load :** 600 ohm or greater
- **Maximum input and output levels:** +20 dBm
- **Maximum possible gain:** +30 dB
- **Frequency response:** 20-30.000 Hz ±0,5 dB
- **Distortion:** Below 0,1 %

- **Output noise:** below —86 dBm at unity gain
- **Potentiometers:** cermet track
- **Case:** Standard 19 inches rack, 88 mm heigh, 200 mm depth
- **Weight:** kg
- **Power requirements:** 115 or 220 V ±10 %, 13 W