

Discrete Audio Products for Audio Production and Live Recording

The TXC Compressor

The **TXC** is the new design from Paul Wolff that addresses the complex issues with compression.

With the ability to do *in-module parallel mixing* of the dry signal and the compressed signal, the engineer can now enjoy the parallel or "side chaining" of an instrument with itself and come up with the perfect blend of the original and compressed signal without the problems associated with in-the-box latency.

The **TXC** uses the proprietary all discrete TX-240 op-amp and the all discrete TX-260 output stage with the TX-280 transformer.

In addition to the Input/Compressor **MIX** knob, the **TXC** has many other unique features not found on any compressor made today. The ability of being able to switch between **Feed Back** and **Feed Forward** compression is something that is not new to Paul Wolff. With the **TXC**, he decided to take it one step further by allowing the ability to fade between Feed Back compression and Feed Forward compression with the **TYPE** control. This feature gives the engineer the freedom to combine the smooth nature of the **Feed Back** type of compression with the aggressive effect of **Feed Forward** compression.

In addition to the **FB-FF Type** control, the **TXC** has the ability to over compress with the **RATIO** control, which allows compression ratios from 1.5:1 to 20:1, and then beyond, with the "**OVER:**" ratio settings that cause the compressor to reduce the gain at a higher ratio than the gain is going into it. This means that the ratio control allows the compressor to compress an increase in signal of 10dB with a gain reduction of up to -8dB. If the signal goes up 10dB, the output will go DOWN 8dB.

This becomes useful when taking a pre compressed snare and by adjusting the Attack, and setting the Ratio in the **OVER:** area, you can actually recover the initial impact peak of the snare. This, with the **MIX** control, can then be blended back with the original "flat" snare and you now have a dynamic snare again, but with a very controlled peak.

The **TXC** also inserted the now famous "**TILT**" control into the side chain of the RMS detector, so you can increase the highs and decrease the lows going into the RMS detector, virtually eliminating the effects of pumping because the Detector is seeing a more uniform distribution of energy across the spectrum instead of a bass heavy signal like most compressors.

The **Attack** control has a X5 switch to allow for a range of extremely fast attack (in the micro second range) all the way through a very smooth slow attack, more suited for leveling.

The **Release** control can be almost instantaneous to 3 seconds. The release circuit is a



unique 3 stage circuit that auto releases the faster signals at a rate of 10 times the release of the lower frequency signals. All of this and an auto-makeup gain system that always keeps the gain at unity regardless of the amount of compression.

With a 6 LED Gain Reduction meter and an adjustable link control, the **TXC** can be used in mono or stereo configurations with ease.

The link below will show some technical plots of how the different features work..