

Introduction

The TCL is a unique analog thermo audio compressor featuring a superior natural RMS detector and dynamic voice bass enhancement control. In another KV2 first its patented design offers an exceptionally musical and natural compression that is a component part of its real-time input, rather than a typical side fed gain reduction circuit attempting to either follow or anticipate compression demands. Its additional Bass balance control circuit allows the user to smooth out and minimise any proximity effects from a changing microphone position, giving the perfect voice color to every performance, from beginning to end. Featuring source intelligent attack and release times, whatever the dynamic content, with just a few simple steps the results from the 500 Series TCL are truly exceptional.

Application

- The TCL is the ultimate compression tool for various studio and live applications with instruments and voice.
- The TCL perfectly suits Musical theatre - giving consistency, richness and depth to head worn microphones.
- The TCL is ideal for corporate presentations - giving a full, warm, full voice timbre and allowing tone matching for lecturn and lavalier microphones.
- The TCL can be used live on many musical instruments, both classical and contemporary.



System Acoustic Performance	
-3dB Response	15Hz to 100kHz
Total Harmonic Distortion	<0.002%
Signal Input	
Input Channels	1
Input Impedance	20kΩ
Max. Input voltage	+26dBu
Features	Limiter, Compressor, Bass enhancer
Signal Output	
Signal Output Channels	1
Max. Output Voltage	18dBu (600Ω) RMS
Output Impedance	600Ω

Features	
Limiter	Adjustable
Drive	Adjustable
Bass enhancement	Adjustable
Low-Mid	Selects the bass enhancement LPF frequency
Output	Adjustable
Indicators	12 segment VU meter, 8 segment gain reduction
Bypass	Yes

Power Requirements	
Power Consumption	120mA
Operating Voltage	±16V

Physical Dimensions	
API Series 500 format	One slot

TCL Technical Data Sheet

Block diagram

