



# buzzaudio SOC1.1

## Stereo Optical Compressor

The SOC1.1 revitalises the optically coupled LDR designs of the past whilst providing better user control via modern technology. Our clever circuit design yields a massive improvement in attack speed compared to other opto compressors available today.

## Classic Soft Knee Opto Dynamics for the Digital Age

### DESIGN FEATURES:

- Unique differential drive sidechain design delivers a compression characteristic in tune with the audio signal.
- Separate power supply regulators for the audio and sidechain sections as well as each channel.
- High quality operational amplifiers used in the signal path.
- Special sidechain "speed up" circuit ensures less than 1ms Attack time in fast mode.
- Large easy to use knobs, reliable switches and pots, LED back lit VU meters - no light bulbs !!
- Electronically balanced inputs and outputs on XLR connectors

### SPECIFICATIONS:

Max Input/Output Level: +23.5dBu balanced.  
 Frequency Response: 4Hz to 250kHz (-3dB points with no GR).  
 Harmonic Distortion: <0.008% (100Hz to 10kHz with no GR).  
 <0.03% (100Hz to 10kHz, 20dB GR, Rel 16).  
 Output Noise: -90dBu, -100dBu A wtg (0dB make up gain).  
 below noise.  
 Stereo Crosstalk: +4dBu = 0dB VU meter display.  
 Operating Level: 20k ohms balanced.  
 Input Impedance: Buzz Audio proprietary Light Dependant Resistor  
 Gain Reduction Element: module illuminated with a differentially driven  
 LightEmitting Diode block.  
 Mains: 115/230vac selectable, IEC fused power inlet.  
 Package: 2U rack mount (482Wx88Hx250D) 6.5 kgs

### CONTROLS:

DRIVE: compression amount or threshold  
 OUTPUT: make up gain to +15dB  
 ATTACK: Slow (70ms), Auto (adaptive), Fast (<1ms).  
 RATIO: 2:1, 5:1, 10:1 and 20:1 compression rates.  
 RELEASE (mS): 100, 200, 400, 800, 1600 & Auto.  
 METER: view input, output or gain reduction.  
 BYPASS: full relay bypass, fail safe if mains lost.  
 LINK: soft linking of Sidechains for stereo tracking.

### APPLICATIONS

Music recording, voice recording, post production, home or project studios, live sound, broadcast.



Handcrafted In New Zealand By:



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